



ANNUAL ENVIRONMENTAL REPORT
SOUTH EAST RECYCLING COMPANY LIMITED
LICENCE NO. W0111-01
JANUARY 2011 – DECEMBER 2011

Prepared For: -

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

Prepared By: -

O' Callaghan Moran & Associates,
Granary House,
Rutland Street,
Cork.

30th March 2012

Project		Annual Environmental Report 2011		
Client		South East Recycling Company Ltd. W0111-01		
Report No	Date	Status	Prepared By	Reviewed By
0481404	15/03/2012	Draft	Michael Watson MA.	Mr Barry Sexton MSc.
0481404	29/03/2012	Final	Michael Watson MA.	Mr Barry Sexton MSc.

TABLE OF CONTENTS

	<u>PAGE</u>
1. INTRODUCTION	1
2. SITE DESCRIPTION	2
2.1 SITE LOCATION AND LAYOUT	2
2.2 WASTE MANAGEMENT ACTIVITIES.....	2
2.2.1 <i>Waste Types & Processes</i>	2
2.2.2 <i>Plant List</i>	3
3. EMISSION MONITORING.....	4
3.1 SURFACE WATER MONITORING	4
3.2 GROUNDWATER MONITORING	6
3.3 NOISE SURVEY.....	9
3.4 DUST MONITORING	11
3.5 TRADE EFFLUENT DISCHARGE LICENCE MONITORING.....	11
4. SITE DEVELOPMENT WORKS	13
4.1 SPECIFIED ENGINEERING WORKS.....	13
4.2 SUMMARY OF RESOURCE & ENERGY CONSUMPTION	13
4.3 BUND INTEGRITY TEST.....	13
5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY	14
6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS.....	17
6.1 INCIDENTS	17
6.2 REGISTER OF COMPLAINTS.....	17
7. ENVIRONMENTAL DEVELOPMENT	18
7.1 ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT	18
7.1.1 <i>Schedule of Objectives 2011</i>	18
7.1.2 <i>Site Management Structure</i>	18
7.1.3 <i>Staff Training</i>	18
7.2 COMMUNICATIONS PROGRAMME.....	20
7.3 REPORT FINANCIAL PROVISION.....	21
7.4 NUISANCE CONTROL	21
7.5 EUROPEAN POLLUTANT RELEASE AND TRANSFER REGISTER	21
8. OTHER REPORTS.....	22

APPENDIX 1 - European Pollutant Release and Transfer Register

1. INTRODUCTION

This is the 2011 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 1st January 2011 to the 31st December 2011.

Waste acceptance ceased on the 26th August 2011. The facility was subsequently decommissioned in Q4 2011 in accordance with the scope of a decommissioning plan approved by the Agency. Following the closure an Independent Closure Audit was carried out, which included an assessment of the soil and groundwater conditions at the facility. The report on the closure audit was submitted to the Agency. In September 2011, SERC applied to the Agency to surrender the licence on March 20th the Agency confirmed that the application was satisfactory. In Q4 2011, following the closure of the facility, the Trade Effluent Licence which was in place at the facility was revoked by Wexford County Council following a request to do so by SERC.

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)¹. Cognisance was also taken of the AER Draft Guidance Document issued in January 2012².

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

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

2. SITE DESCRIPTION

2.1 Site Location and Layout

The facility occupies 1.49 ha and is located in the townland of Pembrokestown. It is accessed from the main N25 via a local county road (Whiterock Hill) to the south of Wexford Town. The land immediately surrounding the site to the west and south is used for agriculture, primarily for pasture. The road adjacent to the facility is characterised by ribbon development along its length. A housing development (Ard na Cuan) has been developed to the northeast of the facility and is accessed off Whiterock Hill Road.

The entrance to the facility 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 facility buildings – a Waste 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 up to 13,500 tonnes of waste per annum, comprising commercial/industrial non-hazardous waste, recyclables and construction and demolition wastes. Waste loads transferred through the facility are mainly from County Wexford. The following waste types were accepted and waste acceptance procedures carried out at the facility until its closure.

2.2.1 Waste Types & Processes

The facility is licensed to accept the following waste types and quantities, 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 amount of each waste type may be altered with the prior agreement of the Agency, so long as the total of 13,500 tonnes is not exceeded.

Commercial and Industrial Waste

Incoming dry mixed C&I waste was unloaded, separated into fractions that were then compacted and loaded onto trailers for transfer off-site to appropriately licensed facilities. Source segregated material was accepted comprising packaging material and was stored separately and bulked for onward transfer. A front loader and grab loader were used to move waste and load the waste.

C&D Waste

Waste loads included mixed construction and demolition wastes and soil and stone. The material arrived in skips of varying sizes. The waste loads were inspected and offloaded inside the building. The majority of the incoming C&D material was recovered and sent off-site either for re-use or recycling. The non-recyclable materials were transferred to a licensed landfill.

2.2.2 Plant List

A list of the plant used at the facility until closure is given in Table 2.1. The plant provided 100% duty and 50% standby for waste processing.

Table 2.1 Existing Plant

No.	Plant	Model	Operational Capacity
1	Weighbridge	Avery Berkel	52hr wk
2	Front end loading shovel	JCB	50 tonnes per hour each
1	Track machine with grab	Caterpillar 321 LC	40 tonnes per hour

3. EMISSION MONITORING

During the reporting period, SERC implemented the comprehensive environmental monitoring programme specified in Condition 9 and Schedule E of the licence to assess the significance of emissions from site activities.

The programme included surface water, groundwater, noise and dust monitoring at the locations shown on Figure 3.1. In addition to the monitoring specified in the licence, SERC also monitored the wastewater discharges to the municipal foul sewer in accordance with a Trade Effluent Licence (SS/S047/02) issued by Wexford County Council. Following receipt of Agency approval, monitoring was not carried out in Q4 2011

The monitoring results, including the wastewater monitoring results, were submitted to the Agency at quarterly intervals. A report was also submitted on a quarterly basis to the Council as required under Schedule 3 of the Trade Effluent Licence. An overview of the monitoring carried out in the reporting period is presented in this Section.

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 at the outfall for surface water run-off from the facility to a drain located along the south-western boundary. SW-2 is in the drain downstream of the discharge point. SW-3 is upstream of the facility, on a drain along the north eastern facility boundary. SW-4 is downstream of the facility. As has been the case in previous years, the drains at SW-3 and SW-4 were dry during each of the sampling events. SW-1 and SW-2 were dry during the Q2 and Q3 sampling events.

The range of analysis was as specified in Schedule E of the licence and included quarterly 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. The results are presented in Table 3.1 and 3.2.

There are no Emission Limit Values (ELVs) or Trigger Levels set in the Licence and for interpretation purposes, the results were compared to the proposed Agency Environmental Quality Standards (EQS) for surface waters. In April 2010, the Agency requested SERC to submit proposed trigger levels for the surface water monitoring locations. The proposed trigger levels were based on the Agency guidance document 'Parameters of Water Quality – Interpretation and Standards' (2001) and were presented in the Q2 2010 monitoring report. The proposed trigger levels are included in Table 3.1.

There was a very marginal exceedance of the proposed BOD trigger level at SW1 in Q1 2011. At SW-2, which is downstream of the discharge point, the proposed trigger levels for BOD and COD were exceeded, however this was not attributed site activities. SW-2 is on a drain which receives inflows from adjacent agricultural land (pasture).

Table 3.1 Surface Water Monitoring Results 2011: SW-1

Parameter	Q1	Q2	Q3	Q4	Proposed Trigger Levels
pH	7.06	Dry	Dry	Dry	5.5-9
Temperature	-	Dry	Dry	Dry	25
Conductivity	0.337	Dry	Dry	Dry	1.000
Ammoniacal Nitrogen	0.03	Dry	Dry	Dry	4
Chloride	36.9	Dry	Dry	Dry	250
Total Suspended Solids	36	Dry	Dry	Dry	50
Dissolved Oxygen	98	Dry	Dry	Dry	30%
BOD	8	Dry	Dry	Dry	7
COD	27	Dry	Dry	Dry	40
Oils, Fats & Greases	<1	Dry	Dry	Dry	1
Total Coliforms	-	Dry	Dry	Dry	100,000
Faecal Coliforms	-	Dry	Dry	Dry	40,000

Table 3.2 Surface Water Monitoring Results 2011: SW-2

Parameter	Q1	Q2	Q3	Q4	Proposed Trigger Levels
pH	7.08	Dry	Dry	Dry	5.5-9
Temperature	-	Dry	Dry	Dry	25
Conductivity	0.41	Dry	Dry	Dry	1.000
Ammoniacal Nitrogen	0.01	Dry	Dry	Dry	4
Chloride	47.3	Dry	Dry	Dry	250
Total Suspended Solids	18	Dry	Dry	Dry	50
Dissolved Oxygen	88	Dry	Dry	Dry	30%
BOD	25	Dry	Dry	Dry	7
COD	120	Dry	Dry	Dry	40
Oils, Fats & Greases	<1	Dry	Dry	Dry	1
Total Coliforms	-	Dry	Dry	Dry	100,000
Faecal Coliforms	-	Dry	Dry	Dry	40,000

There is no evidence that site activities have impacted water quality downstream of the site.

3.2 Groundwater Monitoring

The monitoring programme includes bi-annual sampling of two wells (BH-2 and BH-4). BH-2 is down-gradient and at the north-western boundary of the facility. BH-4 is up-gradient of the facility, along the south-eastern site boundary.

The range of analysis included bi-annual monitoring of pH, electrical conductivity and ammonia and annual monitoring of total petroleum hydrocarbons and total and faecal coliforms. The Independent Closure Audit involved analysing the groundwater samples for additional parameters in Q4 2011 which included Gasoline Range Organics (GRO), fluoride, sulphate, chloride and dissolved metals.

There are no ELV or Trigger Levels set in the Licence and for interpretation purposes the results are compared to the Interim Guideline Values (IGVs) for groundwater published by the Agency. The Tables also include 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's are more appropriate for large scale abstraction wells used for potable supply, they can be used to assess the significance of contamination where present in non potable groundwater supplies. Because GTVs have not been established for all of the parameters monitored, the relevant IGV was used for comparative purposes. The results are presented in Tables 3.3 and 3.4.

The quality of the groundwater was good and generally consistent with the previous monitoring results. With the exception of phosphate, chloride and potassium at BH-4, the concentrations of all of the parameters were below the GTV/IGV. As BH-4 is the upgradient monitoring point, the site activities were not the source of the elevated level. The results indicate that the facility is having no impact on groundwater.

Table 3.3: Groundwater Monitoring Results 2011: BH-2

Parameter	Units	Q2	Q3	Q4	IGV	GTV
pH	pH Units	6.81	6.65	6.42	6.5-9.5	-
Temperature	°C	11.4	11.7	10.9	-	-
Conductivity	mS/cm	0.331	0.296	0.267	1.000	-
Total Ammonia	mg/l	0.05	0.03	<0.03	0.15	-
TPH	mg/l	-	<0.01	<0.01	0.01	-
Total Coliforms	cfu/100ml	-	0	0	0	-
Faecal Coliforms	cfu/100ml	-	0	0	0	-
Arsenic	µg/l	-	-	<2.5	10	7.5
Boron	µg/l	-	-	18	1,000	750
Cadmium	µg/l	-	-	<0.5	5	3.75
Copper	µg/l	-	-	<7	30	1500
Mercury	µg/l	-	-	<1	1	0.75
Nickel	µg/l	-	-	<2	20	15
Lead	µg/l	-	-	<5	10	18.75
Zinc	µg/l	-	-	<3	100	-
Iron	µg/l	-	-	<20	200	-
Manganese	µg/l	-	-	16	50	-
Calcium	mg/l	-	-	27.4	200	-
Magnesium	mg/l	-	-	11.2	50	-
Sulphate	mg/l	-	-	59.85	200	187.5
Chloride	mg/l	-	-	25.8	30	24-187.5
Fluoride	mg/l	-	-	<0.3	1	-
Total Alkalinity CaCO ₃	mg/l	-	-	52	NAC	-
Total Cyanide	µg/l	-	-	<0.01	10	37.5
Total Chromium	µg/l	-	-	<1.5	30	37.5
Phosphorous	µg/l	-	-	9	30	35
Potassium	mg/l	-	-	0.7	5	-
Sodium	mg/l	-	-	17.1	150	150
Total Oxidised N	mg/l	-	-	1.5	NAC	-
Total Dissolved Solids	mg/l	-	-	253	-	-
TOC	mg/l	-	-	3	-	-
VOCs	µg/l	-	-	nd	-	-
Pesticides	µg/l	-	-	<0.01	-	0.375

* - Analysis not required

Table 3.4: Groundwater Monitoring Results 2011: BH-4

Parameter	Units	Q2	Q3	Q4	IGV	GTV
pH	pH Units	7.72	7.41	8.14	6.5-9.5	-
Temperature	°C	11.6	11.5	12.1	-	-
Conductivity	mS/cm	0.842	0.745	0.595	1.000	-
Total Ammonia	mg/l	0.05	0.03	0.04	0.15	-
TPH	mg/l	-	<0.01	<0.01	0.01	-
Total Coliforms	cfu/100ml	-	0	1	0	-
Faecal Coliforms	cfu/100ml	-	0	1	0	-
Arsenic	µg/l	-	-	<2.5	10	7.5
Boron	µg/l	-	-	75	1,000	750
Cadmium	µg/l	-	-	<0.5	5	3.75
Copper	µg/l	-	-	<7	30	1500
Mercury	µg/l	-	-	<1	1	0.75
Nickel	µg/l	-	-	<2	20	15
Lead	µg/l	-	-	<5	10	18.75
Zinc	µg/l	-	-	<3	100	-
Iron	µg/l	-	-	<20	200	-
Manganese	µg/l	-	-	<2	50	-
Calcium	mg/l	-	-	114.1	200	-
Magnesium	mg/l	-	-	22.2	50	-
Sulphate	mg/l	-	-	127.33	200	187.5
Chloride	mg/l	-	-	31.4	30	24-187.5
Fluoride	mg/l	-	-	1.0	1	-
Total Alkalinity CaCO ₃	mg/l	-	-	202	NAC	-
Total Cyanide	µg/l	-	-	<0.01	10	37.5
Total Chromium	µg/l	-	-	<1.5	30	37.5
Phosphorous	µg/l	-	-	252	30	35
Potassium	mg/l	-	-	6.5	5	-
Sodium	mg/l	-	-	19.9	150	150
Total Oxidised N	mg/l	-	-	0.6	NAC	-
Total Dissolved Solids	mg/l	-	-	479	-	-
TOC	mg/l	-	-	5	-	-
VOCs	µg/l	-	-	nd	-	-
Pesticides	µg/l	-	-	<0.01	-	0.375

* - Analysis not required

3.3 Noise Survey

SERC carried out the bi-annual noise surveys in June 2011, the second round of monitoring was not necessary as operations had ceased at the facility. Monitoring was carried out at seven noise monitoring locations, N1, N2, N13, N14 and N15 located onsite and N7 and N8 located offsite. The survey, which was conducted when the site was fully operational, confirmed that the noise emission complied with the licence requirements. The results are presented on Table 3.5 and 3.6.

In June 2011, the noise levels at N7, which is located near a cluster of houses to the south east of the site, exceeded the licence limit, however this was due to traffic on the public road.

Table 3.5: Noise Monitoring Results: June 2011

Station	Time	L _{Aeq} 30 min dB	L _{AF10} 30 min dB	L _{AF90} 30 min dB	Specific level* dB	Noise audible
N1	1302-1332	47	50	38	47	Onsite plant and truck movements audible frequently, and dominant although not intrusive. Offsite, mower audible approx 100 m to E, and intermittent road traffic. Bird song/calls.
N2	1408-1438	46	48	39	42	Site emissions frequently audible at low level from plant and sporadic trucks. Bird calls significant in overhead trees. Intermittent local traffic to E sufficiently loud to influence LAeq.
N7	1149-1219	65	69	37	<37	Intermittent road traffic dominant when present. During lulls, site emissions (plant and sporadic truck movements) slightly audible when present, not significant. Bird song/calls significant. Distant traffic to NW continuously audible in background. Aircraft.
N8	1109-1139	51	53	41	<41	Excavator and loader, when in use, audible at low level, not significant. Sporadic truck movements through weighbridge and on yard also audible at low level. Passing road traffic dominant when present. Occasional vehicle movements audible at adjacent medical premises. Bird song/calls and crows.
N13	1227-1257	49	52	42	<42	Site emissions slightly audible variously from excavator and loader when in use, and sporadic truck movements. Distant traffic to NW continuously audible in background. Local traffic to E also audible. Bird song/calls, aircraft and lightly rustling vegetation. Mower audible at low level at approx 100 m.
N14	1335-1405	50	53	44	47	Site emissions frequently audible at low level from plant and sporadic trucks. Bird calls significant in overhead trees. Intermittent local traffic to E sufficiently loud to influence LAeq.
N15	1442-1512	46	46	38	46	Site emissions audible at low level from plant and sporadic truck movements. Latter dominant when arising in S yard area. Intermittent traffic to E audible, in addition to distant traffic to NW. Bird song/calls and rustling vegetation.

3.4 Dust Monitoring

SERC conducted dust monitoring on three occasions (May, July and August) at five on-site locations (D-1, D-3, D-4, D-5 and D-6). The licence requires that two of these be carried out between May and September. The results are presented in Table 3.7. The dust gauges at D-3 and D-6 were contaminated in the July monitoring event and therefore were not suitable for analysis. The dust deposition limit (350 mg/m²/day) was not exceeded at any location.

Table 3.7: Dust Monitoring Results 2011

	May mg/m ² /day	July mg/m ² /day	August mg/m ² /day	Dust Deposition Limit mg/m ² /day
D1	75.4	69.8	120.3	350
D3	8.9	*	36.0	350
D4	41	59.9	25.5	350
D5	37.1	63.7	31.6	350
D6	214.5	*	92.6	350

*Contaminated

3.5 Trade Effluent Discharge Licence Monitoring

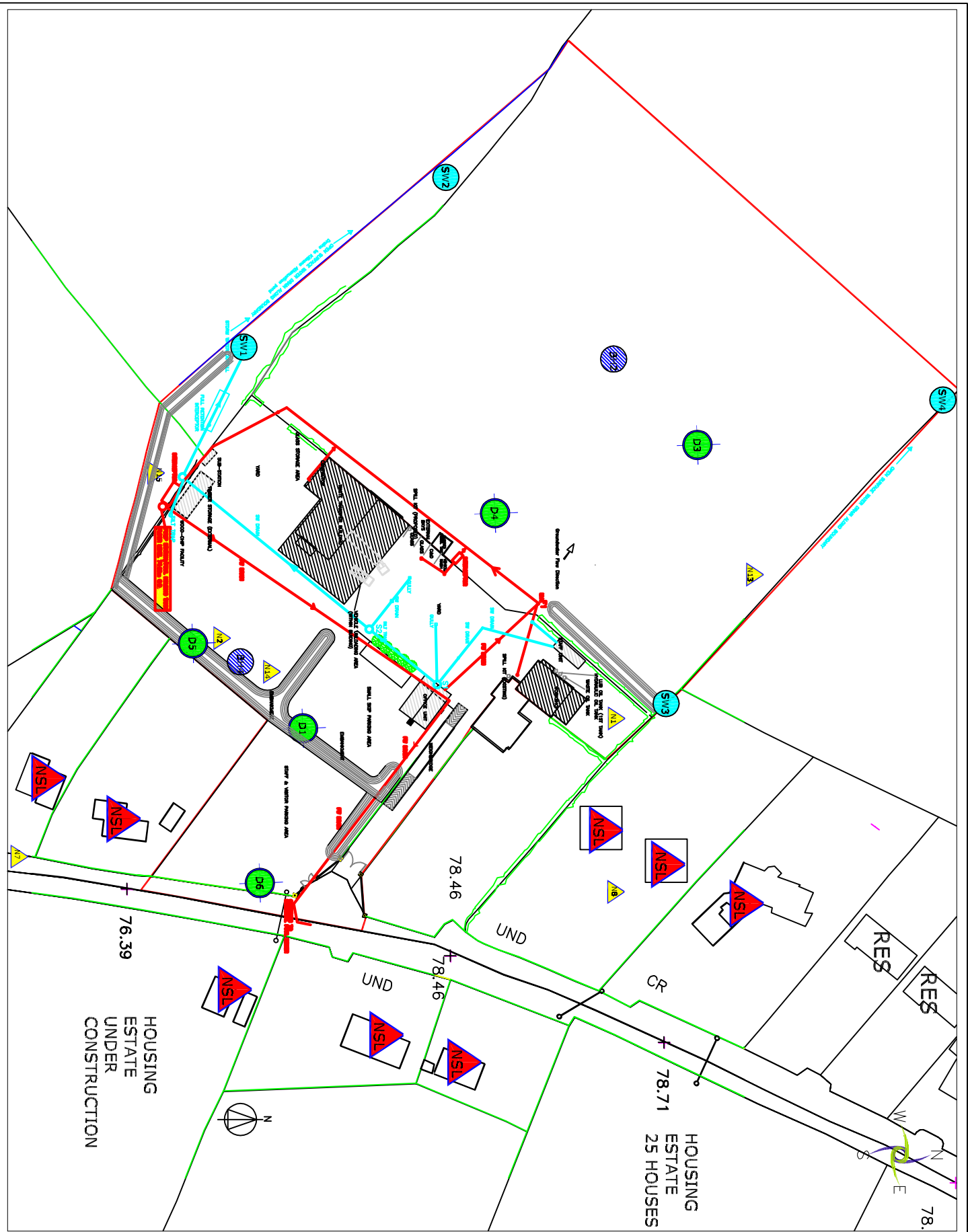
Sanitary and process wastewater from the facility is discharged to the municipal sewer controlled by Wexford County Council (Council). The quality of the discharge was monitored at quarterly intervals in accordance with Trade Effluent Licence SS/S047/02.

In Q4 2011, following the closure of the facility, the Trade Effluent Licence was revoked by the Council following a request to do so by SERC. The results are presented in Table 3.8 and are compared to the limits set in the Trade Effluent Licence.

With the exception of a very minor exceedence of copper in Q1 and fluoride in Q2, the results were less than the emission limits. The exceedences are not considered significant at these low levels.

Table 3.8: Trade Effluent Monitoring Results 2011

Parameter	Units	Q1	Q2	Q3	T.E. Limits
pH	pH Units	7.87	8.06	7.98	6 – 9
BOD	mg/l	8	98	44	400
COD	mg/l	167	329	123	1500
Suspended Solids	mg/l	16.4	82	12	500
Sulphate	mg/l	58.1	72.47	67.82	250
Chloride	mg/l	36.1	72.9	45.3	250
Oils, Fats & Greases	mg/l	1	<0.01	<0.01	30
Arsenic	mg/l	<0.001	0.0046	0.0027	0.025
Chromium	mg/l	<0.001	0.0022	0.0018	0.005
Fluoride	mg/l	0.12	0.7	<0.3	0.5
Copper	mg/l	0.011	<0.007	<0.007	0.005
Lead	mg/l	0.001	<0.005	<0.005	0.005
Zinc	mg/l	0.012	0.062	0.025	0.1
Nickel	mg/l	0.001	0.006	0.003	0.008
Total Cyanide	mg/l	<0.001	<0.01	<0.01	0.01



LEGEND

- Boundary
- Proposed Building
- Proposed Road
- Proposed Drainage
- Proposed Fencing
- Proposed Plant
- Proposed Structure
- Proposed Utility
- Proposed Wall
- Proposed Work
- Proposed Work Area
- Proposed Work Area Boundary
- Proposed Work Area Fencing
- Proposed Work Area Structure
- Proposed Work Area Utility
- Proposed Work Area Wall
- Proposed Work Area Work
- Proposed Work Area Work Area
- Proposed Work Area Work Area Boundary
- Proposed Work Area Work Area Fencing
- Proposed Work Area Work Area Structure
- Proposed Work Area Work Area Utility
- Proposed Work Area Work Area Wall
- Proposed Work Area Work Area Work
- Proposed Work Area Work Area Work Area

Code	Description	Value	Unit
SW1	2007/04/21/170-2-42	2007/04/21/170-2-42	m
SW2	2007/04/21/170-2-42	2007/04/21/170-2-42	m
SW3	2007/04/21/170-2-42	2007/04/21/170-2-42	m
SW4	2007/04/21/170-2-42	2007/04/21/170-2-42	m
DS1	2007/04/21/170-2-42	2007/04/21/170-2-42	m
DS2	2007/04/21/170-2-42	2007/04/21/170-2-42	m
DS3	2007/04/21/170-2-42	2007/04/21/170-2-42	m
DS4	2007/04/21/170-2-42	2007/04/21/170-2-42	m
DS5	2007/04/21/170-2-42	2007/04/21/170-2-42	m
DS6	2007/04/21/170-2-42	2007/04/21/170-2-42	m
NSL1	2007/04/21/170-2-42	2007/04/21/170-2-42	m
NSL2	2007/04/21/170-2-42	2007/04/21/170-2-42	m
NSL3	2007/04/21/170-2-42	2007/04/21/170-2-42	m
NSL4	2007/04/21/170-2-42	2007/04/21/170-2-42	m
NSL5	2007/04/21/170-2-42	2007/04/21/170-2-42	m
NSL6	2007/04/21/170-2-42	2007/04/21/170-2-42	m

Client
South East Revolving
Company Ltd.

Project
Waste Licences

Title
Site Layout,
Monitoring Locations

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

Prepared by
JOC

Checked by
JOC

Project ID number
DCH

DATE
20.03.2017

DC/DRAWING/ISSUE & ASSOCIATES
100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

FIGURE 3.1

4. SITE DEVELOPMENT WORKS

4.1 Specified Engineering Works

No Specified Engineering Works were carried out in 2011. As the facility is closed and an application to surrender the licence has been made, no works will be carried out in 2012.

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

Resources	Quantities
Road Diesel	199399 litres
Plant Fuel	5100litres
Ad Blue	420 litres
Hydraulic, Transmission and Engine Oil	160 litres
Gear Oil	40 litres
Odour Neutraliser	75litres
Truck Wash Detergent	100litres
Anti Freeze	200 litres
Electricity	35,300 units

4.3 Bund Integrity Test

Horizon Environmental conducted integrity tests on the diesel storage tank bund in September 2011 and completed a CCTV survey of the drainage system including all underground pipes and chambers. The integrity test confirmed that the bund was fit for purpose and the survey did not identify any significant defects in the drainage system.

5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY

Table 5.1 shows the total quantities of waste received and consigned from the facility in 2011, Table 5.2 shows the quantities for 2010. A breakdown of the waste types is provided in accordance with the European Waste Catalogue and Hazardous Waste (EWC/HWL) list. A more detailed description of the wastes received and consigned in 2011 is presented in the PRTR submission in Appendix 1.

The total amount received in 2011 was 8,147 tonnes. The total amount consigned was 8,262.36 tonnes. Table 5.3 shows the quantities of waste received and consigned in previous years.

All the wastes consigned from the site in 2011 went to recovery and disposal facilities agreed with the Agency.

Table 5.1 Waste Received & Consigned 2011

EWC	Description	Waste In	Waste Out
15 01 01	Cardboard Packaging	154	451
15 01 02	Plastic Packaging	16	
15 01 05	Tetrapack	2	
15 01 06	Mixed Packaging	2,247	2,099.36
15 01 07	Glass Packaging	79	27
17 01 07	Concrete from C&D Waste		982
17 05 04	Soil & Stone from C&D Waste	10	19
17 09 04	Mixed C&D	680	493
19 12 12	C&I Dry Mixed		1,349
19 12 12	Mixed Municipal Waste		2,046
20 01 01	Cardboard & Paper	244	
20 01 02	Glass	64	147
20 01 08	Food & Garden Waste	3	
20 01 38	Wood	129	103
20 01 39	Plastic	30	
20 01 40	Metal	378	468
20 03 01	Mixed Municipal Waste	1,749	
20 03 07	Bulky Waste	2,362	78
	Total Received	8,147.00	
	Total Consigned		8,262.36

Table 5.2 Waste Received & Consigned 2010

EWC	Description	Waste In	Waste Out
15 01 01	Cardboard Packaging	152.00	293.76
15 01 02	Plastic Packaging	32.00	
15 01 03	Wooden Packaging	86.00	12.72
15 01 06	Mixed Packaging	3,570.00	3,261.48
15 01 07	Glass Packaging	167.00	141.00
17 01 07	Concrete from C&D Waste	989.00	
17 05 04	Soil & Stone from C&D Waste	42.00	1,850.00
19 12 05	Glass	7.00	
19 12 07	Processed Wood	4.00	26.62
19 12 09	Minerals from mechanical treatment of waste	2.00	
19 12 12	C&I Dry Mixed		2097
19 12 12	Mixed Municipal Waste		4814
20 01 01	Cardboard & Paper	123.00	
20 01 02	Glass	95.00	132.12
20 01 08	Food & Garden Waste	4.00	
20 01 38	Wood	49.00	107.00
20 01 39	Plastic	1.00	
20 01 40	Metal	55.00	168.58
20 03 01	Mixed Municipal Waste	2574	
20 03 01	Mixed Dry Recyclables	1,509	
20 03 07	Bulky Waste	4,034.00	289.24
	Total Received	13,495.00	
	Total Consigned		13,193.08
	Total Recovered		8,356.52
	Total Disposed		4,836.56
	Recovery Rate		63.34%

Table 5.3 – Waste Received and Consigned since 2005

	2010	2009	2008	2007	2006	2005
Total Received	13,495	13,157.30	32,293.02	41,730	38,308.48	30,006
Total Consigned	13,193.08	13,063.71	32,834.38	40,596	21,174.93	29,144
Recovery Rate	63.34%	78%	59%	63%	55.27%	69%

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

There were no reportable incidents in 2011.

6.2 Register of Complaints

SERC maintains a register of complaints received in accordance with Condition 3.13 of the waste licence. No complaints were received in 2011.

7. ENVIRONMENTAL DEVELOPMENT

7.1 Environmental Management Programme Report

In compliance with Conditions 2.1 and 2.2 of the Licence, SERC had established an Environmental Management System (EMS) for the facility. The schedule of Objectives and Targets, including their status for 2011 (Table 7.1), is presented below. No objectives and targets are set for 2012 as the facility is closed and an application to surrender the licence has been submitted to the Agency.

7.1.1 Schedule of Objectives 2011

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 – Awareness and Training

No staff training was required in 2011.

Objective 2 – Energy & Resource Consumption

Energy usage is reviewed annually. The facility is not a large user of resources and consumption in 2011 was at a similar level to 2010.

Objective 3 – Review & Assess the Effectiveness of Nuisance Control

The facility did not cause a nuisance. The nuisance control procedures were effective during the reporting period.

Objective 4 – Pollution Prevention

The routine environmental monitoring has confirmed that the facility has not caused pollution in the local environment.

Objective 5 – Infrastructure

Significant infrastructure works were not required during the reporting period.

7.1.2 Site Management Structure

Details of the site management structure in place during the reporting period are included on Table 7.3.

7.1.3 Staff Training

No staff training was required in 2011.

Table 7.1 Schedule of Objective and Targets 2011

No	Objective	Target	Responsibility	Status
1	Awareness and Training	Continue to ensure that appropriate training is carried out specific to all site personnel as per the Company's established Training Matrix.	Facility Management	Q4 2011
		Spill training, inclusive of a spill scenario to be carried out.		
2	Energy & Resource Consumption	Summarise energy and resource usage on a quarterly basis with a view to reducing consumption	Facility Management	Q4 2011
3	Review and Assess the Effectiveness of Nuisance Control Procedures	Continually review and assess all nuisance control procedures to ensure minimal impact on the surrounding area.	Facility Management	Q4 2011
4	Pollution Prevention	Strive to ensure that monitoring results comply with the licence limits and investigate any exceedances of emission limit values.	Facility Management	Q4 2011
5	Infrastructure	The concrete at the entrance of the waste transfer building will be replaced.	Facility Management	Q4 2011

Table 7.3 Site Management Structure - 2011

Management and Staffing structure: -

Name: Denis Mullally

Responsibility: Operations Manager

Experience: FAS Waste Management Course completed. 6 years waste management experience.

Name: Andrew Rinkulis

Responsibility: Operations Supervisor, management of operations of transfer station.

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

Name: Martin Kavanagh

Responsibility: Site Foreman/Loader Driver, general supervision of staff and recycling operations

Experience: 10 years waste management experience

7.2 Communications Programme

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

Records available for public inspection on site included:-

- Environmental Policy
- Waste Licence
- Licence Application and Review documentation
- Monitoring Records
- Complaints File
- EPA Correspondence File

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

Visits to the site were arranged in advance by ringing the Facility Operations Manager or Operations Supervisor prior to closure.

7.3 Report Financial Provision

Greenstar Ltd. has adequate insurance cover for environmental liabilities to €10m for any one occurrence, which will apply to “sudden identifiable and unintended incidents” that might occur at the facility.

In accordance with Condition 8.1 of the Licence SERC submitted a Closure and Decommissioning Plan to the Agency in January 2009 detailing the financial provisions relating to the potential closure of the facility. The costs associated with the decommissioning of the facility in Q4 2011 have been borne by SERC.

7.4 Nuisance Control

SERC carried 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 was inspected daily for litter. All of these inspections and assessments were documented and kept on file at the site.

During the reporting period, SERC 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 were kept on file on site.

An odour control system comprising two rotary atomisers was installed and commissioned at the facility in 2008. This was activated in the event that any loads with odour nuisance potential were received at the facility. The system worked well in 2011.

7.5 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 1.

8. OTHER REPORTS

No other reports required for inclusion in the AER were requested by the Agency in 2011.

APPENDIX 1

European Pollutant Release and Transfer Register



[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.13

REFERENCE YEAR	2011
-----------------------	------

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.
4.13	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.
4.2	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.

Address 1	South East Recycling Centre
Address 2	Carriqbawn
Address 3	Pembrokestown
Address 4	County Wexford
	Wexford
Country	Ireland
Coordinates of Location	-6.47927 52.3177
River Basin District	IESE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Malcolm Dowling
AER Returns Contact Email Address	malcolm.dowling@greenstar.ie
AER Returns Contact Position	
AER Returns Contact Telephone Number	01-2947969
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	0
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General
50.1	General

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

[Link to previous years emissions data](#)

[PRTR# : W0111 | Facility Name : South East Recycling Company Ltd | Filename : w0111_2011.xls | Return Year : 2011]

30/03/2012 12:41

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:

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

[Link to previous years emissions data](#)

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO WATERS	
POLLUTANT	
No. Annex II	Name

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS	
POLLUTANT	
No. Annex II	Name

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

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

RELEASES TO WATERS	
POLLUTANT	
Pollutant No.	Name

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

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT

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

) then click the delete button

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

) then click the delete button

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

) then click the delete button

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

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

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

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

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR#: W0111 | Facility Name : South East Recycling Company Ltd | Filename : w0111_2011.xls | Relt

30/03/2012 12:41

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](#)

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND	
POLLUTANT	
No. Annex II	Name

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

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

RELEASES TO LAND	
POLLUTANT	
Pollutant No.	Name

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

METHOD			Please enter all quantities i
METHOD			
M/C/E	Method Used		
	Method Code	Designation or Description	Emission Point 1
			0.0

) then click the delete button

METHOD			Please enter all quantities i
METHOD			
M/C/E	Method Used		
	Method Code	Designation or Description	Emission Point 1
			0.0

) then click the delete button

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

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

[PRTR#: W0111 | Facility Name : South East Recycling Company Ltd | Filename : w0111_2011.xls | Return Year : 2011]

30/03/2012 12:41

Please enter all quantities on this sheet in Tonnes

11

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 Non Haz Waste: Name and Licence/Permit No of Recoverer/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recoverer/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	320.0	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	GES Waterford,W0177-03	Six Cross Rds,...,Waterford,Ireland		
Within the Country	15 01 01	No	131.0	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	Greenstar,W0053-03	Fassaroe,...,Co Wicklow,Ireland		
Within the Country	15 01 06	No	265.0	mixed packaging	R3	M	Weighed	Offsite in Ireland	Mr Binman,WFP-TS-08-0079-01	Carrick-On-Suit,...,Co Tipperary,Ireland		
Within the Country	15 01 06	No	428.78	mixed packaging	R3	M	Weighed	Offsite in Ireland	Killarney Waste Disposal,W0217-01	Killarney Waste Disposal,...,Co Kerry,Ireland		
Within the Country	15 01 06	No	1405.58	mixed packaging	R3	M	Weighed	Offsite in Ireland	Greenstar,W0053-03	Glassco Wicklow,Ireland		
Within the Country	15 01 07	No	27.0	glass packaging mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	R5	M	Weighed	Offsite in Ireland	Recycling,WP/241/2006	..Naas,..,Co Kildare,Ireland		
Within the Country	17 01 07	No	982.0	soil and stones other than those mentioned in 17 05 03	R5	M	Weighed	Offsite in Ireland	Adam Greene,WP 68-06	Orchard,Portlaw,..,Co Waterford,Ireland		
Within the Country	17 05 04	No	19.0	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R5	M	Weighed	Offsite in Ireland	Adam Greene,WP 68-06	Orchard,Portlaw,..,Co Waterford,Ireland		
Within the Country	17 09 04	No	493.0	wood other than that mentioned in 20 01 37 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R5	M	Weighed	Offsite in Ireland	Adam Greene,WP 68-06	Orchard,Portlaw,..,Co Waterford,Ireland		
Within the Country	20 01 38	No	103.0	wood other than that mentioned in 20 01 37 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Weighed	Offsite in Ireland	Greenstar,W0053-03	Fassaroe,...,Co Wicklow,Ireland		
Within the Country	19 12 12	No	1349.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Weighed	Offsite in Ireland	Greenstar,W0053-03	Fassaroe,...,Co Wicklow,Ireland		
Within the Country	19 12 12	No	2046.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Weighed	Offsite in Ireland	Greenstar Ballynagran,W0165-01	Coolbeg,Co Wicklow,Ireland		
Within the Country	20 01 02	No	147.0	glass	R5	M	Weighed	Offsite in Ireland	Glassco Recycling,WP/241/2006	..Naas,..,Co Kildare,Ireland		
Within the Country	20 01 40	No	468.0	metals	R4	M	Weighed	Offsite in Ireland	Molloy Metals,WP/000/15	Ballycarney,Enniscorthy,..,Co Wexford,Ireland		
Within the Country	20 03 07	No	78.0	bulky waste	R3	M	Weighed	Offsite in Ireland	Greenstar,W0053-03	Fassaroe,...,Co Wicklow,Ireland		

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

[Link to previous years waste data](#)

[Link to previous years waste summary data & percentage change](#)