



Office of Environmental Enforcement,
West/North West Region,
Environmental Protection Agency,
John Moore Road,
Castlebar,
Co. Mayo

31st March 2009

RE: AER 2008 – Greenstar Ltd. – Sligo Depot
Waste Licence Register No.W0058-01

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.

Yours sincerely,

Michael Watson

0804805/MW/MG

Encl

c.c.: Ms. Suzanne Byrne, Greenstar Ltd.,
Mr. David Stapleton, Greenstar Ltd. (Sligo)



ANNUAL ENVIRONMENTAL REPORT
FOR GREENSTAR LTD.
DEEP WATER QUAY SLIGO
LICENCE NO. W0058-01
JANUARY 2008 – DECEMBER 2008

Prepared For: -

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31st March 2009

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1. INTRODUCTION

This is the 2008 Annual Environmental Report (AER) for the Greenstar Ltd. (Greenstar), Materials Recovery & Transfer facility (MRF) at Deep Water Quay, Sligo. The AER covers the period from the 1st January 2008 to the 31st December 2008. The content is based on Schedule B of the Waste Licence (Reg. No. W0058-01) and the report format follows guidelines set in the “Guidance Note for Annual Environmental Report” issued by the Environmental Protection Agency (Agency).

2. SITE DESCRIPTION

2.1 Site Location and Layout

The facility is located at Deepwater Berths Road, approximately 1.5 km northwest of Sligo town centre and 1 km from a relief road linking the N4 to the N15.

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

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

2.2 Waste Management Activities

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

All waste processing takes place inside the MRF building, as specified in Condition 5.1 of the Waste Licence. The plant and equipment in use at the facility is shown on Table 2.1.

Table 2.1 Plant List - 2008

No.	Plant	Model	Operational Capacity	Standby Capacity
1	Baler	Boa	7t/hr	7t/wk
1	Paper Shredder	Alleghney	500kg/hr	500kg/hr
5	Trucks	Skip Trucks *3	60hr/wk	-
		Refuse Trucks *4	60hr/wk	-
1	Hook Lifter	Scania	65hr/wk	-
1	Loading Shovel	Caterpillar 938G	70t/hr	-
1	Fork Lift	Yale x2	65hr/wk	-
	Trommel	Powerscreen	60t/hr	
1	Grab	Fuchs MHL340	25t/hr	-
1	Wood Chipper	Bandit Beast	30t/hr	
1	Weighbridge	-	46hr/wk	-

2.2.1 Waste Types

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

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

No hazardous wastes or liquid waste are accepted.

The key processes carried out are: -

- Segregation of recyclable material (paper, cardboard, plastic, aluminium cans);
- Baling of segregated materials;
- Sorting and segregation of C&D waste.

Household Waste

Household waste arrives in refuse collection vehicles and is transferred from the vehicles into large bulk transporters for consignment to an appropriately licensed landfill.

Commercial and Industrial Waste

Both mixed and segregated commercial waste is collected from commercial outlets. Commercial waste rich in recyclables (paper, cardboard and plastic) is delivered to the facility both by permitted third party hauliers and by Greenstar vehicles. Plastic, card and paper are baled and stored prior to transfer to a suitable off-site recycling outlet. The remaining non-recyclable material is bulked and sent to appropriately licensed landfills.

C & D Waste

Waste loads include mixed construction and demolition wastes and soil and stone. The material arrives in skips of varying sizes. The waste loads are inspected and then processed. The majority of the incoming materials (>95%) is recovered.

2.2.2 *Individual Waste Streams*

Packaging Waste

Cardboard, paper and plastic packaging wastes collected from commercial and industrial premises, such as supermarkets, and the kerbside separately collected municipal packaging is accepted at the facility. Packaging waste is also accepted at the civic amenity area located in the south-eastern yard. Recyclable cardboard, paper and plastic are recovered, baled and stored pending transfer to a suitable recovery outlet.

Municipal Waste - Paper and Cardboard

Paper and cardboard generally arrive in either pre-segregated or in mixed waste loads. Paper and cardboard are also accepted at the civic amenity area. Unspoilt material is baled and stored prior to removal off-site to an appropriate facility.

Plastics

Plastics removed from mixed waste loads, pre-segregated commercial and industrial plastic, and from the civic amenity area are baled and transferred to a suitable recovery facility.

Glass

Glass from the bottle banks located in the civic amenity area and glass segregated from the incoming commercial and construction and demolition waste is collected and stored pending transfer to an appropriate glass recovery facility.

Metals

Aluminium cans segregated from the incoming commercial waste loads and collected in the can banks located on-site are baled and sent for recycling. Scrap metal recovered from the commercial and construction and demolition waste is transferred to a suitable recovery facility.

Wood

Wood segregated from incoming municipal and construction and demolition waste is chipped on-site and then transferred off-site for recovery or recycling.

3. EMISSION MONITORING

Greenstar implements a comprehensive environmental monitoring programme to assess the significance of emissions from site activities. The programme includes surface water, foul water, groundwater, noise, landfill gas and dust monitoring. The monitoring locations are shown on Figure 3.1.

The fully certified monitoring results are submitted to the Agency at quarterly intervals. An overview of the results of the monitoring is presented in this Section.

3.1 Surface Water Monitoring

The surface water drainage system, serving roofed and open yard areas, discharges via a silt trap and petrol/oil interceptor to the Garavogue River. The interceptor and drains are cleaned on average every six months.

Surface water monitoring is carried out at quarterly intervals at the final discharge point (SE-2). The range of analysis is as specified in Schedule E of the Waste Licence and includes pH, electrical conductivity, Chemical Oxygen Demand (COD), Biological Oxygen Demand (BOD), ammoniacal nitrogen, chloride, surfactants, total suspended solids (TSS), mineral oils and oils, fats and greases, Total and faecal coliforms.

The sampling and analysis were carried out in accordance with OCM sampling protocols and standard quality assurance procedures. Samples were collected on the 1st March, 26th June, 9th September and 1st December 2008.

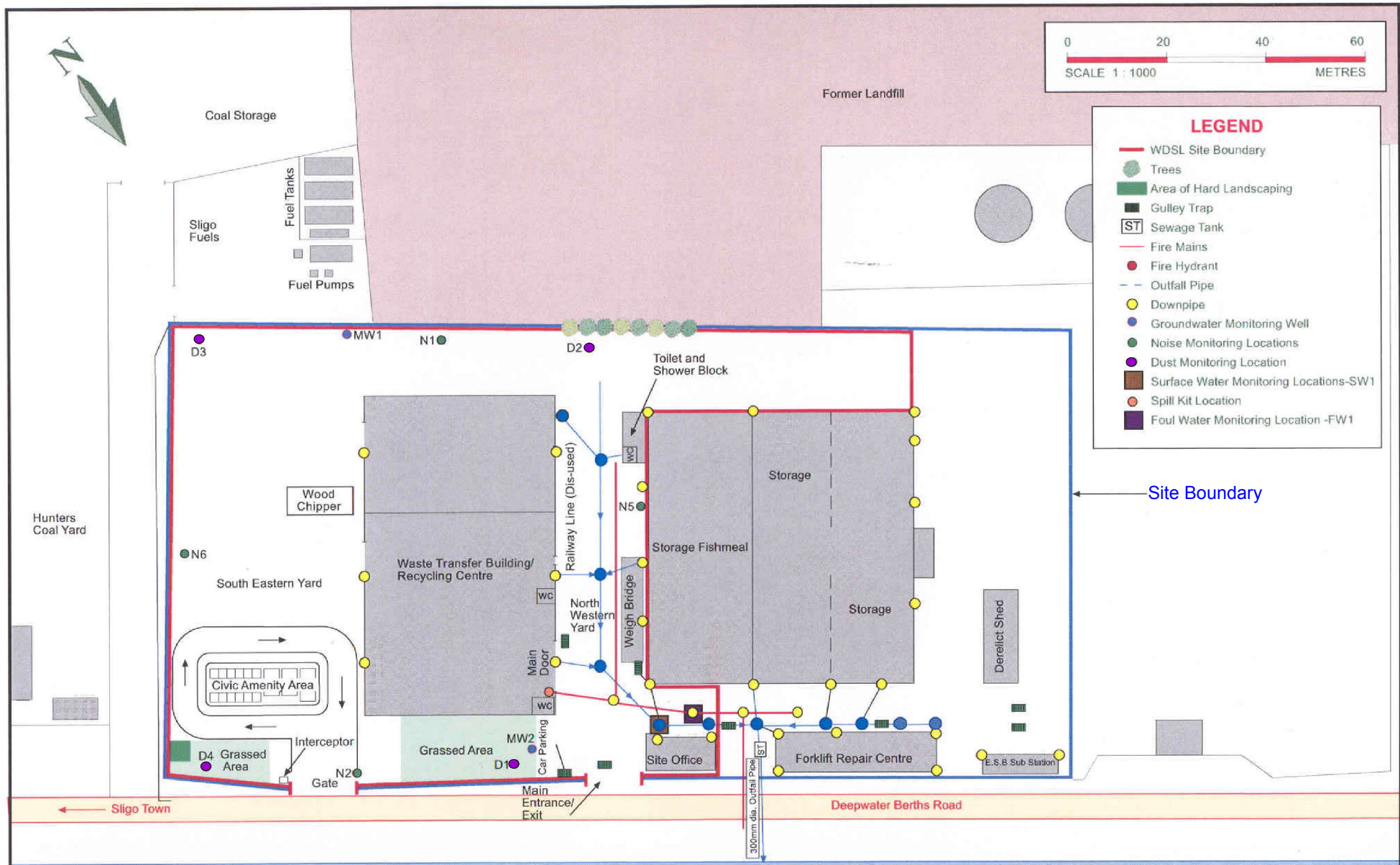
Emission Limit Values (ELV) for SE-2 are set in Schedule F3 and Condition 7.4 of the Licence. In general the surface water discharge from the facility is of good quality. With the exception of TSS in Q1, Q2 and Q3 and BOD in Q1 and Q2 the ELVs were not exceeded. The reason for the elevated TSS is most likely associated with disturbance of sediment in the sample chamber during sampling. The reason for the elevated BOD is unknown, but a possible contributing factor is the generally low flow conditions during sampling. All relevant Agencies were informed of the exceedances of the ELVs in accordance with Condition 3.3.a) and 3.3.b) of the Waste Licence. Total and faecal coliforms were also detected, but the sources are considered to be natural (birds and small animals).

The Sligo Main Drainage scheme is nearing completion and a new wastewater treatment plant is being built to the north west of the facility at the end of Deep Water Berths Road. It is intended to connect the surface water discharge to this system once it is commissioned.

Table 3.1 Surface Water Results for 2008

Parameter	Units	SE-2 Q1	SE-2 Q2	SE-2 Q3	SE-2 Q4	Emission Limit
pH	pH units	6.8	6.6	6.7	7.43	6 – 9
Conductivity	mS/cm	0.477	0.701	0.673	0.550	N/A
Chloride	mg/l	44	23.39	3.26	22	N/A
Ammoniacal Nitrogen	mg/l	0.8	<0.005	<0.005	1.1	N/A
COD	mg/l	99	126	19	36	N/A
BOD	mg/l	41	64	11	17	20
Total Suspended Solids	mg/l	55	307	73	28	30
Surfactants	mg/l	<0.3	0.009	0.007	1.4	N/A
Mineral Oils	mg/l	0.032	<0.01	0.01	<0.01	N/A
Oils, Fats & Greases	mg/l	<0.4	8	<1	<1	10
Faecal Coliforms	cfu/100ml	N/A	N/A	2400	N/A	N/A
Total Coliforms	cfu/100ml	N/A	N/A	200	N/A	N/A

N/A - not applicable



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CLIENT

Greenstar Ltd

Details

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FIGURE NUMBER

3.1

TITLE

Monitoring Locations

Scale

Not To Scale

Revision

A

This drawing is the property of O'Callaghan Moran & Associates and shall not be used, reproduced or disclosed to anyone without the prior written permission of O'Callaghan Moran & Associates and shall be returned upon request.

3.2 Groundwater Monitoring

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

The laboratory analysis included the annual range of parameters specified in Schedule E5 of the licence. The sampling and analysis was carried out in accordance with recognised quality assurance and control procedures. The parameters were ammoniacal nitrogen, BOD, chloride, mineral oils, pH, faecal coliforms and total coliforms.

There are no ELVs or trigger limits set in the licence. The results are compared to the Interim Guideline Values (IGV) on groundwater quality published by the Agency. The summary results for 2008 are shown on Table 3.2.

Elevated levels of chloride, ammoniacal nitrogen and mineral oils were detected in the upgradient well MW1. Mineral oils were not detected in the downgradient MW2. Slightly elevated levels of chloride and elevated levels of ammoniacal nitrogen were detected in MW2. Faecal and total coliforms were not detected in either of the groundwater wells.

The elevated ammoniacal nitrogen and chloride may be attributable to a former landfill (the closed Finisklin landfill is located immediately west of the site up hydraulic gradient) and the effects of salt water intrusions beneath the site from the estuary. The high levels of mineral oils at MW1 may be attributed to a neighbouring kerosene and diesel Distribution Centre approximately 5 m from the site's southern boundary. There are no on-site potential sources of hydrocarbon contamination in the vicinity of this well.

Oil contamination was initially detected in MW1 in 2006 and it has persisted. Greenstar informed the neighbouring distribution centre, the Agency and Sligo County Council of the discovery of the oil contamination in 2006. The most recent result (581 mg/l) is higher than the levels measured in August 2006 (26.89 mg/l) and August 2007 (22.51 mg/l).

In May 2008 OCM observed some oil staining on the paved area adjacent a fuel dispenser on the neighbouring fuel distribution site approximately 8m from MW1. The staining indicated a flow path onto the Greenstar site. Greenstar management contacted the fuel distribution centre to inform them of the spill which was duly noted. The cause of the staining or volume of oil involved is unknown.

Table 3.2 Groundwater Monitoring Results September 2008

Parameter	Units	MW1	MW2	IGV
pH	pH units	7.00	7.00	6-9
Chloride	mg/l	58	84	30
Ammoniacal Nitrogen	mg/l	0.72	3.8	0.15
BOD	mg/l	58	18	-
Mineral Oils	mg/l	581	<0.01	10
Faecal Coliforms	cfu/100ml	12	<1	0
Total Coliforms	cfu/100ml	10	1	0

3.3 Foul Water Monitoring

Foul water monitoring is carried out quarterly. The foul water drainage system discharges via a holding tank to the Garavogue River. The monitoring is carried out at one location (SE-1), the final discharge point from the facility. The sampling location is shown on Figure 3.1. The monitoring results are presented on Table 3.3.

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

Emission Limit Values (ELV) for SE-1 are set in Schedule F of the Licence. The ELVs were not exceeded with the exception of a marginal exceedence for TSS in Q1. The reason for the elevated TSS is most likely associated with disturbance of sediment in the sample chamber during sampling.

The Sligo Main Drainage scheme is nearing completion and a new wastewater treatment plant is being built to the north west of the facility at the end of Deep Water Berths Road. It is intended to connect the foul water discharge to this system once it is commissioned.

Table 3.3 Foul Water Monitoring Results for 2008

Parameter	Units	SE-1 Q1	SE-1 Q2	SE-1 Q3	SE-1 Q4	Emission Limit
pH	pH units	6.9	7.4	6.8	1.79	6 – 9
Conductivity	mS/cm	0.348	0.455	0.278	0.605	N/A
Chloride	mg/l	31	20	19.92	21	N/A
Ammoniacal Nitrogen	mg/l	0.4	<0.3	0.638	1.1	5
COD	mg/l	50	<20	33	27	N/A
BOD	mg/l	17	4	16	12	20
Total Suspended Solids	mg/l	32	18	15	17	30
Surfactants	mg/l	<0.3	<0.3	0.008	1.8	N/A
Mineral Oils	ug/l	0.035	<0.050	<0.01	<0.01	N/A
Oils, Fats & Greases	mg/l	<4	<4	<1	<1	10
Faecal Coliforms	cfu/100ml	N/A	N/A	<1	N/A	N/A
Total Coliforms	cfu/100ml	N/A	N/A	380	N/A	N/A

N/A – Not Applicable

3.4 Noise Survey

All waste processing is carried out internally which provides significant attenuation for noise emissions from waste processing. The annual noise survey was carried out on 24th July 2008. Monitoring was carried out at the four noise monitoring locations, N-1, N-2, N-5 and N-6 specified in the licence shown on Figure 3.1. The results are shown on Table 3.4. The survey was conducted between the hours of 08:15 and 10.22 when the site was fully operational. The survey concluded that the facility was in compliance with its licence requirements.

Table 3.4 Noise Monitoring Results 2008

Noise Monitoring Location	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)			Comment
		L _{Aeq}	L _{A10}	L _{A90}	
N1	0847-0917	56	57	50	Vehicle movements around yard dominant. Waste processing operations in building also audible. Sporadic truck movements at adjacent premises audible. Various noise sources audible at coal depot to West (conveyors, warning alarm and water sprinkler system).
N2	0952-1022	62	65	57	Noise dominated by compactor truck idling continuously at civic amenity area. Also noise from users of civic amenity area and sporadic management operations. Vehicle movement on onsite yards audible. Offsite traffic audible on adjacent industrial estate roads.
N5*	0815-0845	67	72	50	Noise from 2 onsite sources dominant: processing operations within opposite building, and traffic movements at entrance and around yard including forklift truck. No other noise audible apart from trucks on industrial estate roadway.
N6*	0920-0950	60	61	56	Noise dominated by onsite sources, chiefly processing noise and loader, but also truck movements around yard. Gate to civic amenity site opened 0930, compactor truck started at this time and continuously audible in background.

*At station N5 the sound level meter was positioned 2.5 m from the facade of the adjacent building in order to avoid passing vehicles onsite. At station N6 the sound level meter was positioned 2 m from large skips surrounding the monitoring station. N5 and N6 noise data presented in the table have been corrected in accordance with *International Standards Organisation ISO1996 Acoustics: Description and measurement of environmental noise Part1 (2003) and Part 2 (2007)*. The correction applied is -3 dB.

3.5 Dust Monitoring

There are significant off-site sources of dust in the vicinity of the facility. In dry weather conditions Greenstar dampen down access roads and the paved yards. Dust monitoring was carried out three times during the year at four on-site locations (D1, D2, D3 and D4) as shown on Figure 3.1. The licence requires that two of these monitoring events be carried out between May and September. Dust monitoring was carried out in June, July/August and November 2008. The results of the dust monitoring are summarised in Table 3.5.

In June, the dust deposition limit (350 mg/m²/day) was exceeded at one monitoring location (D1, 430 mg/m²/day). In August the limit was exceeded at each of the monitoring locations (D1, 395 mg/m²/day, D2, 754 mg/m²/day, D3 617 mg/m²/day and D4 520 mg/m²/day). The dust emission limit was exceeded in November at one of the four monitoring locations (D3 380 mg/m²/day).

Table 3.5 Dust Monitoring Results 2008

	June 08 mg/m ² /day	August-07 mg/m ² /day	November-07 mg/m ² /day
D1	430	395	254
D2	243	754	190
D3	185	617	380
D4	177	520	298

D1 is located at the northern boundary of the site near the main entrance on Deepwater Berths Road. There are a number of industrial activities along Deepwater Berths Road including the construction of the new municipal waste water treatment plant and it is considered likely that passing traffic along the road is the source of the elevated dust at this location.

D2 is located at the south west boundary of the site, up prevailing wind of the yard area and the waste transfer and recycling building, but adjacent to an unvegetated partially restored local authority landfill which can generate significant quantities of dust in windy weather. It is therefore considered likely that a significant volume of the dust recorded here originated from off-site.

D3 is located at the southern boundary of the site adjacent to a coal yard. During sampling it was noted that the dust in the gauges was black in colour and it is considered likely that the dust originated from the stockpiles of coal in the coal yard.

D4 is located on the north eastern site boundary adjacent Deepwater Berths Road downwind of the civic amenity area and an external storage yard area. Traffic along the road is considered to be a significant source of dust at this location as is the coal storage yard.

3.6 Landfill Gas Monitoring

The annual gas monitoring programme included measurements of methane, carbon dioxide, oxygen and atmospheric pressure from the two groundwater monitoring wells (MW1 & MW2) and the facility office. There are no emission limits set in the waste licence. Carbon dioxide and methane were not detected at any of the monitoring locations. There is no evidence that landfill gas is present in the soils beneath the facility.

4. SITE DEVELOPMENT WORKS

4.1 Engineering Works

Table 4.1 lists the development works which were carried out on-site in 2008. The proposed development works for 2009 are listed in Table 4.2.

Table 4.1 Update on Proposed Development Works for 2008

Description of Works	Scheduled Date	Status
Complete fencing at back of yard	Q2-Q3 2008	Not yet Completed
Further Improve Traffic Management Programme	Q2-Q3 2008	Assessment carried out in October 2008 by Trafficwise Ltd.
Upgrade Civic Site Further – Install additional fencing	Q2 2008	Completed – Alfa Block partitions set up successfully
Plant Upgrades - New forklift, New timber shredder, New Mobile loading ramps, New Separation Bays in the MRF Building	Q2-Q3 2008	All Provided.

Table 4.2 Proposed Development Works for 2009

Description of Works	Scheduled Date
Complete fencing at back of yard	Before 30 th April 2009
Further Improve Traffic Management Programme	Evaluate recommendations of Trafficwise report when available
Upgrade Civic Site Further – Reline ground markings	Q2-Q3 2009
Connect surface and waste water discharges to Municipal WWTP	Once commissioned by Sligo Council (expected in Q2 2009)

The facility has sufficient plant capacity to handle the volumes of waste accepted at the facility. It is not expected that the existing methods, processes, waste types accepted and operating procedures will be altered significantly in 2009.

4.2 Summary of Resource & Energy Consumption

Table 4.3 presents an estimate of the resources used on-site during the reporting period from January to December 2008.

Table 4.3 Estimates of Resources Used On-Site

Resources	Quantities
Vehicle Diesel	172,280 litres
Diesel (green)	31,122 litres
Electricity	120,000 kwh
Detergent	110 litres
Hydraulic & Engine Oil	2,100 litres
Estimated volume of water going to sewer	30,000 litres

5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY

Table 5.1 shows the quantities for the period January 2008 to December 2008. The total quantity of waste received was 36,993 tonnes and the total waste consigned was 39,230 tonnes. For comparative purposes the amounts of waste received and consigned from 2003 to 2007 are presented in Tables 5.2 and 5.3. Table 5.4 shows the volume of wastes accepted according to the waste categories set in Schedule G of the licence. All the wastes consigned from the site went to recovery and disposal facilities agreed with the EPA. The name and location of the facilities are given in Table 5.5.

The recording system shows 2,237 more tonnes consigned than accepted during the reporting period. This is understood to be due mainly to operational errors at the weighbridge associated with the way waste received at the civic amenity facility is recorded. Not all wastes received at the civic facility were weighed in prior to processing however it was all weighed out. There is a procedure in place which requires wastes from the civic amenity to be weighed in at the facility weighbridge however it is understood that this practice was not carried out during a significant portion of 2008. Additional training has been provided to two key weighbridge operators to ensure that all wastes accepted at the civic amenity centre is weight into the facility and this problem will be eliminated in 2009.

The recycling rate for the facility is estimated at 19%.

Table 5.1 Waste Received & Consigned 1st Jan 2008 – 31st Dec 2008

Material	Tonnes per Annum		
	Received	Recycled	Landfilled
Construction and Demolition	389		
MSW	15,371		15,371
Commercial and Industrial	16,544		16,773
Construction and Demolition			
Construction and Demolition		1,026	
Non-Recyclables			
Mixed Recyclables	1,481	1,710	
Plastic	404	212	
Paper and Cardboard	1,328	1,269	
Metal	228	401	
Timber	318	486	
Batteries	2	6	
Rubber	4		4
Glass	126	106	
Fines		833	
Sludge	690	693	
WEEE	6	201	
Textile	1	27	
Tetra Pak	17	17	
Polystyrene	1		1
Mixed Powders	73	84	
IBC	3	3	
Supersacks	8	8	
Total Tonnage	36,993	7,082	32,148
Recycling Rate	19%		

Table 5.2 Waste Received & Consigned 1st Jan 2007 – 31st Dec 2007

Material	Tonnes per Annum		
	Received	Recycled	Landfilled
Construction and Demolition	841		
MSW	10,601		10,601
Commercial and Industrial	15,795		14,020
Construction and Demolition			
Construction and Demolition		2,214	
Non-Recyclables			
Mixed Recyclables	2,045	2,450	
Plastic	345	180	
Paper and Cardboard	1,077	964	
Metal	199	552	
Timber	584	685	
Batteries	3	3	
Rubber	52		52
Glass	120	120	
Fines	0	1,482	
Sludge	428	391	
WEEE	160	160	
Textile	22	22	
Total Tonnage	32,271	9,224	24,672
Recycling Rate	37%		

Table 5.3 Total Tonnages Received and Consigned in 2003-2005

Year	Tonnes per Annum	Tonnes Recycled	Tonnes Landfilled
2003/2004	14,484	2,199	12,285
2004	18,548	6,351	12,197
2005	21,500	6,750	12,694
2006	23,196	8,393	15,634

Table 5.4: Waste Types Accepted 2008

Waste Type	Maximum Allowable Tonnes per Annum	Annualised Tonnages Accepted 2008
Household waste	41,400	15,667
Commercial	4,600	2,094
Construction & Demolition	9,000	389
Industrial Non- Hazardous	45,000	18,843
Total	100,000	36,993

Table 5.5 Off-Site Disposal / Recovery Agents

Final Recovery or Disposal Destination	Waste Licence or Permit	Waste Type Accepted
KTK Landfill, Kilcullen, Co. Kildare	W0081-01	Sludge / Asbestos
IPR, Ballymount Rd., Walkinstown, Dublin 12	WP R021/02	Card / Newspaper
Conroy Recycling Co. Ltd., Kildallon, Mullingar, Co. Westmeath	WR-040/01-2002	Timber Recycling
Erin Recyclers, Kinlough, Co. Leitrim	WP SO-03-10	Scrap Metal
Return Batt, Old Mill Industrial Estate, Kill, Co. Kildare	W0105-01	Batteries
Glen Resources, Lungagal, Glencar, Co. Sligo	WP SO-03-09	C & D
Cavan County Council, Corranure Landfill, Cootehill Road, Cavan	WP077-1	Domestic/ Commercial
EnviroGrind, Donegal Road, Pettigo, Co. Donegal	ENV/143/WP4	Wood
Norris Plant Hire, Cloverhill, Sligo	WP SO-05-52	C&D
Textile Recycling Ltd., Glen Abbey Complex, Belgard Road, Tallaght, Dublin 24	WPR014	Textiles
East Galway Regional Landfill, Greenstar Recycling Holdings Ltd, Kilconnell, Co. Galway	W0178-01	Domestic / Commercial
KMK Metals, Cappincur Industrial Estate, Daingean Road, Tullamore, Co Offaly	W0113-02	WEEE
Greenstar Ltd, Millennium Park, Ballycoolin, Dublin	W0183-01	C&I
Greenstar Recycling, Fassaroe, Bray, Co. Wicklow	W0053-03	Newspaper / Cardboard / Plastic / Metals
Thorndale Environmental Recycling Ltd., 77 Clooney Road, Campsie, Co. Derry BT473PA	WDL-14	Plastics
Wheelie Environmental Refuse Services, Weir Road Industrial Estate, Tuam, Co. Galway	WP084	Recyclables
Ballyogan Landfill Facility and Recycling Park	W0015-01	Domestic/ Commercial
Baileys Waste Paper, Rosemount Business Park, Blanchardstown, Dublin 16	WPT(1)B	Paper & Cardboard
Arigna Fuels Ltd, Arigna, Carrick on Shannon, Co. Roscommon	WMP14/06	Wood
TimberPak, Moher, Ballinasloe, Co Galway	-	Wood
Greenstar Knockharley Residual Landfill, Kentstown, Co Meath	W0146-01	Domestic/ Commercial
Rehab Recycle, Ballymount Avenue, Clondalkin, Dublin 12	WPR-004.	Glass
JML Transport, Ruskey, Convoy, Co. Donegal	ENV/143 WP018	Recyclables

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

There were two exceedances of the surface water ELVs, while the dust deposition levels exceeded the licence limits in three monitoring events as described in Section 3. There were no other incidents at the facility during the reporting period. The Agency were notified of each ELV exceedance following the issue of results and the Regional Fisheries authority and local authority were also notified of the surface water exceedances as required by the licence.

6.2 Register of Complaints

Greenstar maintains a register of complaints received in accordance with Condition 3.12 of the waste licence. No complaints were received in the reporting period.

7. ENVIRONMENTAL DEVELOPMENT

7.1 Environmental Management Programme Report

Greenstar has developed an Environmental Management System (EMS) for the facility. As part of this EMS Greenstar has developed a list of environmental, management, operating and maintenance procedures, details of which are outlined in Appendix 1. Details of the EMS including the proposed schedule of objectives and targets for 2008 are outlined 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 Site Management Structure

Name: David Stapleton

Responsibility: General Manager; overall management of the site

Experience: 16 years experience

Name: Barry Gallagher

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

Experience: 18 years experience. N.C.B.S

Name: Anthony Lynch

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

Experience: 7 years

Name: Louise Lynch

Responsibility: Administration Manager, office administration

Experience: 6 years

7.1.2 Staff Training

The General Manager has completed the FAS management course in 2006. The Administration Manager completed the FAS management course in 2007.

7.2 Environmental Management Programme Proposal

7.2.1 Schedule of Objectives 2008

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

7.2.2 Schedule of Objectives 2009

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

Table 7.1 Schedule of Objective and Targets 2008

No.	Ref	Objective	Target	Responsibility	Timescale	Update
1	ENV	Establish a programme for the assessment of resource usage and the implementation of reduction initiatives to reduce carbon footprint by 10% over next 5 years	Undertake a resource/energy balance survey in accordance with the Agency's "Guidance Note on Energy Efficiency Auditing"; 2003	Facility Manager	Q3-Q4 2008	Not Completed
			Investigate possible resource usage reduction initiatives	Facility Manager	Q3-Q4 2008	Completed
			Switch electricity to renewable source	Facility Manager	Q3-Q4 2008	Completed
			Implement energy/resource usage reduction activities	Facility Manager	Q3-Q4 2008	Completed
2	ENV	Ensure dust emissions are within EPA limit values	During dry periods regular sweeping and dampening down of the yard surface	Yard Manager	Ongoing	Ongoing
3	ENV	Ensure odour emissions are eliminated and/or controlled	Inspect odour abatement system on a regular basis and report on its effectiveness	Yard Manager	Ongoing	Ongoing
			Ensure no odorous waste loads are stored at the facility	Facility Manager	Ongoing	Ongoing
4	ENV	Improve foul and surface water quality	Apply for connection to Sligo Main Drainage Scheme	Facility Manager	As soon as Completed by Council	Due for completion in 2009
5	ENV	Prevent litter distribution	Ensure litter is removed at the end of each working day	Yard Manager	Ongoing	Ongoing
6	ENV	To improve recycling rates and increase the amount of household waste diverted from landfill	Improve existing civic amenity area and design and develop MRF. Install new waste separation bays and mobile loading ramps. Commission new timber shredder.	Commercial Manager	Ongoing	Completed Q2 2008
7	H&S	Improve Traffic Management Programme	Design additional improvements to the traffic management system directing casual access away from MRF Building	Yard Manager	Q2 2008	Completed
8	ENV	Complete Fencing at back of Yard	Instruct contractor to begin the installation of new fencing to the rear of the site	Yard Manager	Q3-Q4 2008	Not Completed
9	H&S	Emergency Response Training	Carry out emergency response training for all staff e.g. fire drills etc.	Yard Manager	Ongoing	Completed
10	ENV	Environmental Monitoring	Carry out all environmental monitoring requirements as per licence requirements	Facility Manager	Ongoing	Completed

Table 7.2 Schedule of Objective and Targets 2009

No.	Ref	Objective	Target	Responsibility	Timescale
1	ENV	Establish a programme for the assessment of resource usage and the implementation of reduction initiatives to reduce carbon footprint by 10% over next 5 years	Undertake a resource/energy balance survey in accordance with the Agency's "Guidance Note on Energy Efficiency Auditing"; 2003	Facility Manager	Q2 2009
			Implement energy/resource usage reduction activities	Facility Manager	Following Issue of Energy Audit
2	ENV	Ensure dust emissions are within EPA limit values	During dry periods regular sweeping and dampening down of the yard surface	Yard Manager	Ongoing
3	ENV	Ensure odour emissions are eliminated and/or controlled	Inspect odour abatement system on a regular basis and report on its effectiveness	Yard Manager	Ongoing
			Ensure no odorous waste loads are stored at the facility	Facility Manager	Ongoing
4	ENV	Improve foul and surface water quality	Apply for connection to Sligo Main Drainage Scheme	Facility Manager	As soon as Completed by Council. Expected 2009
5	ENV	Prevent litter distribution	Ensure litter is removed at the end of each working day	Yard Manager	Ongoing
6	ENV	To improve recycling rates and increase the amount of household waste diverted from landfill	Improve existing civic amenity area and design and develop MRF. Install new waste separation bays and mobile loading ramps. Commission new timber shredder.	Commercial Manager	Ongoing
7	H&S	Improve Traffic Management Programme	Reline the yard markings at the civic amenity area.	Yard Manager	Q2 2009
8	ENV	Complete Fencing at back of Yard	Instruct contractor to begin the installation of new fencing to the rear of the site	Yard Manager	Q2 2009
9	H&S	Emergency Response Training	Carry out emergency response training for all staff e.g. fire drills etc.	Yard Manager	Ongoing
10	ENV	Environmental Monitoring	Carry out all environmental monitoring requirements as per licence requirements	Facility Manager	Ongoing

7.3 Communications Programme

Greenstar are committed to setting the standard in waste management and ensuring environmental compliance in all operations. In addition, Greenstar's Environmental Policy makes a specific commitment to make the environmental policy and records available to the public and interested parties.

To this end Greenstar has drawn up a Communications Programme, which details how members of the public are facilitated in accessing environmental information at the facility.

Records available for public inspection on-site include:-

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

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

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

7.4 Report Financial Provision

Greenstar has accrued over €3,000,000 in funds, to provide for any potential environmental liabilities at this facility. Greenstar also has adequate insurance cover for environmental liabilities to €6,350,000 for any one occurrence, which will apply to “sudden identifiable and unintended incidents”.


8. OTHER REPORTS

8.1 European Pollutant Release and Transfer Register Regulation

Under the European Pollutant Release and Transfer Register Regulation (EC) No. 166/2006 Greenstar are required to submit information annually to the Agency. A copy of the information submitted to the Agency via the web-based data reporting system is included in Appendix 2.

APPENDIX 1

Procedures List

DOCUMENT TYPE		
TITLE	Sligo Complete Procedures List	

This document is issued and controlled by the Environmental Department. This is a controlled document subject to change at any time and therefore, should not be copied. Only signed, authorised copies may be issued as working documents.

Ref	Procedure	Issue No.	Date
	ISO standard procedures		
SOP 001	Document control	0	15/05/06
SOP 004	Objectives & Targets, Environmental Management Programme	0	15/05/06
SOP 005	Environmental Legislation	0	15/05/06
SOP 007	Environmental Complaints	0	15/05/06
SOP 008	Non-Conformance & Corrective action	0	15/05/06
SOP 009	Environmental Training	0	15/05/06
SOP 010	Communications	0	15/05/06
SOP 011	Records	0	15/05/06
SOP 012	Emergency Response Procedure	1	21/04/06
SOP 013	Environmental Monitoring & Reporting / Emissions Management	0	15/05/06
	Operating Procedures-all facilities		
SOP 014	Facility Inspection	0	15/05/06
SOP 015	Incident Recording and Reporting	0	15/05/06
SOP 016	Waste Management Facility /Collector approval	0	15/05/06
SOP 017	Maintenance	0	15/05/06
SOP 018	Unacceptable Waste	0	15/05/06
SOP 019	Nuisance Management	0	15/05/06
SOP 020	Raw materials / Resource control and usage	0	15/05/06
SOP 022	Health and Safety	1	21/04/06
SOP 023	Operation of Forklift	0	14/06/06
	Operating Procedures		
SOP 024	Customer Enquiries	0	14/06/06
SOP 025	Control of Visitors and Contractors	0	14/06/06
SOP 026	Vehicle Movements	0	14/06/06
SOP 027	Load Receipt and Acceptance Route	0	14/06/06
SOP 028	Inspection and Testing of Waste	0	14/06/06
SOP 029	Processing, Recovery, Storage and Transfer of Non-hazardous waste and recyclables	0	14/06/06
SOP 031s	Processing of Commercial & Industrial and Construction & Demolition Waste	0	14/06/06
SOP 033	Chipping of Timber	0	14/06/06
SOP 035	Operation of Baler	0	14/06/06
SOP 046	Operation of Trommel	0	14/06/06
	Other		
SOP 070	Addition of Vehicles to Collection Permit	0	23/12/05
SOP 071	Accident Incident Procedure	1	28/02/06

APPENDIX 2

PRTR Returns



| PRTR# : W0058 | Facility Name : Deepwater Quay | Filename : W0058_2008.xls |
Return Year : 2008 |

AER Returns Worksheet

Version 1.1.04

REFERENCE YEAR	2008
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1. FACILITY IDENTIFICATION

Parent Company Name	Greenstar Limited
Facility Name	Deepwater Quay
PRTR Identification Number	W0058
Licence Number	W0058-01

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	Sligo
Address 2	
Address 3	
Address 4	
Country	Ireland
Coordinates of Location	505100.000
River Basin District	IEWE
NACE Code	382
Main Economic Activity	Waste treatment and disposal
AER Returns Contact Name	Simon Rooney
AER Returns Contact Email Address	malcolm.dowling@greenstar.ie
AER Returns Contact Position	Environmental & Site Manager
AER Returns Contact Telephone Number	071 9143037/087 29036637
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
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

| PRTR# : W0058 | Facility Name : Deepwater Quay | Filename : W0058_2008.xls | Return Year : 2008 |

02/04/2009 16:06

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:

Deepwater Quay

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

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

4.2 RELEASES TO WATERS

| PRTR# : W0058 | Facility Name : Deepwater Quay | Filename : W0058_2008.xls | Return Year : 2008 |

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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

RELEASES TO WATERS								
POLLUTANT		Method Used			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
79	Chlorides (as Cl)	E	EN ISO 17025	Flow based on estimate of rainfall and area of site. Analysis is ISO accredited	SE-2 254.7875	254.7875	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	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 WATERS								
POLLUTANT		Method Used			QUANTITY			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
238	Ammonia (as N)	E	EN ISO 17025	Flow based on estimate of rainfall and area of site. Analysis is ISO accredited	SE-2 10.45	10.45	0.0	0.0
306	COD	E	EN ISO 17025	Flow based on estimate of rainfall and area of site. Analysis is ISO accredited	770.0	770.0	0.0	0.0
303	BOD	E	EN ISO 17025	Flow based on estimate of rainfall and area of site. Analysis is ISO accredited	365.75	365.75	0.0	0.0
240	Suspended Solids	E	EN ISO 17025	Flow based on estimate of rainfall and area of site. Analysis is ISO accredited	1273.25	1273.25	0.0	0.0
308	Detergents (as MBAS)	E	EN ISO 17025	Flow based on estimate of rainfall and area of site. Analysis is ISO accredited	5.192	5.192	0.0	0.0
324	Mineral oils	E	EN ISO 17025	Flow based on estimate of rainfall and area of site. Analysis is ISO accredited	0.231	0.231	0.0	0.0
314	Fats, Oils and Greases	E	EN ISO 17025	Flow based on estimate of rainfall and area of site. Analysis is ISO accredited	88.0	88.0	0.0	0.0

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

4.3 RELEASES TO WASTEWATER OR SEWER

| PRTR# : W0058 | Facility Name : Deepwater Quay | Filename : W0058_2008.xls | Return Ye 02/04/2009 16:07

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		SE-1				
			Method Code	Designation or Description	Emission Point 1	Emission Point 2	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
79	Chlorides (as Cl)	E	EN ISO 17025	Flow based on an estimate of floor discharges. Analysis is ISO accredited	0.6894 0.0	0.0 0.0	0.6894 0.0	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		SE-1				
			Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
238	Ammonia (as N)	E	EN ISO 17025	Flow based on an estimate of floor discharges. Analysis is ISO accredited	0.02138	0.02138	0.0	0.0	
306	COD	E	EN ISO 17025	Flow based on an estimate of floor discharges. Analysis is ISO accredited	1.1	1.1	0.0	0.0	
303	BOD	E	EN ISO 17025	Flow based on an estimate of floor discharges. Analysis is ISO accredited	0.3675	0.3675	0.0	0.0	
240	Suspended Solids	E	EN ISO 17025	Flow based on an estimate of floor discharges. Analysis is ISO accredited	0.615	0.615	0.0	0.0	
308	Detergents (as MBAS)	E	EN ISO 17025	Flow based on an estimate of floor discharges. Analysis is ISO accredited	0.02712	0.02712	0.0	0.0	
324	Mineral oils	E	EN ISO 17025	Flow based on an estimate of floor discharges. Analysis is ISO accredited	0.00105	0.00105	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

| PRTR# : W0058 | Facility Name : Deepwater Quay | Filename : W0058_2008.xls | Return Year : 2008 |

02/04/2009 16:07

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# : W0058 | Facility Name : Deepwater Quay | Filename : W0058_2008.xls | Return Year : 2008 |

02/04/2009 16:07

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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	02 07 05	No	693.22	Sludge	D8	M	Weighed	Offsite in Ireland	Envirogrind ENV/143/WP4	Pettigo, Co. Donegal		
Within the Country	15 01 07	No	99.0	Glass Packaging	R5	M	Weighed	Offsite in Ireland	Rehab Recycle WPR 004	Ballymount Avenue, Clondalkin, Dublin 12		
Within the Country	17 01 07	No	1025.78	C&D Inert Mixed	R5	M	Weighed	Offsite in Ireland	Norris Plant Hire WP SO-05-52	Cloverhill, Sligo		
Within the Country	19 12 09	No	833.0	Fines C&I	R5	M	Weighed	Offsite in Ireland	East Glaway landfill Greenstar Ltd W0178-01	Killagh More, Ballybaun, ballintober, Ballinasloe, Co.Galway		
Within the Country	19 12 12	No	27875.0	C&I Dry Mixed	D5	M	Weighed	Offsite in Ireland	East Glaway landfill Greenstar Ltd W0178-01	Killagh More, Ballybaun, ballintober, Ballinasloe, Co.Galway		
Within the Country	19 12 12	No	46.73	C&I Dry Mixed	D5	M	Weighed	Offsite in Ireland	KTK landfill W0081-02	Kilcullen Co. Kildare		
Within the Country	19 12 12	No	3616.05	C&I Dry Mixed	D5	M	Weighed	Offsite in Ireland	Knockharley Landfill W0146-01	Navan, Co. Meath		
Within the Country	19 12 12	No	44.71	MSW Municipal Mixed	D5	M	Weighed	Offsite in Ireland	East Glaway landfill Greenstar Ltd W0178-01	Killagh More, Ballybaun, ballintober, Ballinasloe, Co.Galway		
Within the Country	20 01 35	Yes	201.48	Electronics & Electrics	R4	M	Weighed	Offsite in Ireland	KMK Metals W0113-02.	Tullamore, Co. Offaly	KMK Metals W0113-02.	
Within the Country	20 01 38	No	117.94	Wood	R3	M	Weighed	Offsite in Ireland	Arigna Fuels WMP 14/06	Co. Roscommon		
Within the Country	20 01 38	No	197.36	Wood	R3	M	Weighed	Offsite in Ireland	Conroy Recycling Ltd. WR-040/01-2002	Kildallon, Mullingar, Co. Westmeath		
Within the Country	02 07 04	No	83.62	Mixed Powders	R5	M	Weighed	Offsite in Ireland	Envirogrind ENV/143/WP4	Pettigo, Co. Donegal		
Within the Country	20 01 02	No	7.22	Glass	R5	M	Weighed	Offsite in Ireland	Rehab Recycle, WPR004	Ballymount, Dublin 12		
Within the Country	15 01 01	No	711.0	cardboard packaging	R3	M	Weighed	Offsite in Ireland	Bailey Waste -WPT(1)B	Rosemount Business Park, Blanchardstown, D16		
Within the Country	15 01 01	No	29.0	cardboard packaging	R3	M	Weighed	Offsite in Ireland	IPR WP R021/02	Ballymount Rd, Dublin 12		
To Other Countries	15 01 02	No	212.0	Plastic packaging	R5	M	Weighed	Abroad	Thorndale WDL-14	Derry		
Within the Country	15 01 03	No	124.0	wood	R3	M	Weighed	Offsite in Ireland	Timberpak	Moher, Ballinasloe, Co Galway		
Within the Country	15 01 04	No	10.0	Metal	R4	M	Weighed	Offsite in Ireland	Erin Recyclers WPSO-03-10	Deepwater Quay, Sligo		
Within the Country	15 01 06	No	1738.0	Mixed Packaging	R3	M	Weighed	Offsite in Ireland	Greenstar, Bray W0053-03	Fassaroe, Bray Co Wicklow		
Within the Country	16 06 01	Yes	6.0	Batteries	R5	M	Weighed	Offsite in Ireland	Returnbatt - W0105-01	Kill, Co Kildare	Returnbatt - W0105-01	Kill, Co Kildare
Within the Country	19 12 12	No	17.0	C&I Dry Mixed	R3	M	Weighed	Offsite in Ireland	Greenstar, Bray W0053-03	Fassaroe, Bray Co Wicklow		
Within the Country	19 12 12	No	535.0	C&I Dry Mixed	R3	M	Weighed	Offsite in Ireland	Greenstar W0183-01	Millennium Pk, Ballycoolin Dublin		
Within the Country	20 01 01	No	192.0	Newsprint	R3	M	Weighed	Offsite in Ireland	IPR WP R021/02	Ballymount Rd, Dublin 12		
Within the Country	20 01 01	No	336.0	Newsprint	R3	M	Weighed	Offsite in Ireland	Bailey Waste -WPT(1)B	Blanchardstown, Dublin 16		
Within the Country	20 01 11	No	27.0	Textiles	R3	M	Weighed	Offsite in Ireland	Textile Recycling - WPR-014	Belgard Rd, Tallaght, Dublin 24		
Within the Country	20 01 40	No	447.0	Metals	R4	M	Weighed	Offsite in Ireland	Erin Recyclers WPSO-03-10	Deepwater Quay, Sligo		
Within the Country	20 01 38	No	132.0	Wood	R3	M	Weighed	Offsite in Ireland	East Glaway landfill Greenstar Ltd W0178-01	Killagh More, Ballybaun, ballintober, Ballinasloe, Co.Galway		

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