

ANNUAL ENVIRONMENTAL REPORT

AES ROSSLARE WASTE TRANSFER STATION

JANUARY 2011
THROUGH
DECEMBER 2011

Waste Licence

Registration Number: W0229-01

Licensee:

Advanced Environmental Solutions (AES)
Ireland Ltd

Location of Activity:

Ballygillane Big/Ballyknockan, St. Helens,
Kilrane, Rosslare Harbour,
County Wexford.

Attention:

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Abstracts: This report presents the Annual Environmental Report for AES Rosslare Waste Transfer Station in St. Helen's, Kilrane, Rosslare Harbour, Co. Wexford to the Environmental Protection Agency. The report covers the annual reporting period of 2011.

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1.0 INTRODUCTION

The Environmental Protection Agency (EPA) issued Goff Recycling Limited with a Waste Licence for its Waste Transfer Station at Ballygillane Big/Ballyknockan, St. Helen's, Kilrane, Rosslare Harbour, Co. Wexford on 9th March 2007. The Waste Licence reference number is W0229-01. This licence was transferred to Advanced Environmental Solutions (Ireland) Ltd, on 26th August 2008.

The facility is currently licensed to accept a maximum of 23,000 tonnes of waste per annum (5,400 tonnes of Household waste, 8,600 tonnes of Commercial waste, 4,000 tonnes of Non-hazardous Construction and Demolition (C&D) waste and 5,000 tonnes of Non-hazardous Industrial waste). The site is located in St. Helen's, south-west of Rosslare Harbour.

In May 2007, Bord na Móna PLC acquired Advanced Environmental Solution (AES) Ireland Ltd., one of Ireland's leading waste management companies, which services 5,000 commercial customers and 60,000 domestic customers. The acquisition was a key part of the Bord na Móna PLC's diversification strategy and one which tied in perfectly with the existing Bord na Móna PLC areas of operation.

AES Ireland Ltd. currently operates a network of recycling & transfer facilities throughout Leinster and further afield. These facilities are located in Navan, Co. Meath, Tullamore, Co. Offaly, Portlaoise, Co. Laois, Nenagh, Co. Tipperary and Rosslare, Co. Wexford. Goff Recycling Ltd previously operated this waste recovery and transfer station. It was acquired by AES (Ireland) Ltd. during September 2008 and still trades as Goff Recycling.

ANUA Environmental was retained to prepare and submit the Annual Environmental Report (AER) for the facility in compliance with Condition 11.8 and Schedule E of the Waste Licence. This report addresses Condition 11.8 of the Waste Licence for the facility.

Condition 11.8 states that:

“The licensee shall submit to the Agency, by the 31st March of each year, an AER covering the previous calendar year. This report, which shall be to the satisfaction of the Agency, shall include as a minimum the information specified in Schedule E: Annual Environmental Report of this licence and shall be prepared in accordance with any relevant guidelines issued by the Agency”.

This report addresses the items listed in *Schedule E: Annual Environmental Report* of the Waste Licence for the facility. This AER covers the reporting period from 1st January 2011 up to and including 31st December 2011 and provides a summary of all Waste Licence-related activities on site during this period.

1.1 Site Description and Activities

As previously referred to, AES operates a Waste Licence (W0229-01) for its Waste Transfer Station at Ballygillane Big/Ballyknockan, St. Helen's, Kilrane, Rosslare Harbour, Co. Wexford. Operations at the facility include the acceptance of domestic, commercial, industrial and construction and demolition waste, which is sorted and segregated for onward recycling/recovery in accordance with the Waste Licence for the facility. Waste deemed unsuitable for recycling/recovery is segregated and compacted for disposal off-site.

1.2 Waste Handling Procedure

Waste is accepted at or dispatched from the AES Rosslare facility only between the hours of 08.00 to 18.00 Monday to Friday inclusive and 8.00 to 13.00 on Saturdays. The facility is operated only during the hours of 06.00 to 20.00 Monday to Friday inclusive and 8.00 to 14.00 on Saturdays. All waste accepted at the facility for disposal is removed from the facility within 48 hours of its arrival on-site (during bank holidays/weekends waste is removed within 72 hours).

Current waste acceptance procedures involve the use of a computer based programme called Integrated Waste System (IWS). The software is linked to the on-site weighbridge and is used for recording of waste quantities accepted on-site. The vehicle registration number, customer and product is inputted into the system and from this detail, the source of the waste can be obtained.

After weighing, each waste load is brought to the enclosed Recycling Plant Building where it is deposited on the floor for visual inspection to ensure that all wastes comply with the requirements of the Waste Licence, W0229-01. The Yard Foreman is responsible for carrying out visual waste inspections and for maintaining a written record of all loads. Only after visual inspection, can the waste be identified for disposal or recovery.

Within the Recycling Plant Building the waste is sorted according to its recycling potential and is either deemed suitable for further onward recycling/recovery or compacted within one of the ejector trailers onsite and transported off-site for final disposal (non-recoverable waste) to an authorised landfill. The categories of waste deemed suitable for segregation and recycling is dependent on available markets for such materials. Materials commonly accepted for recycling Steel/Iron, Cardboard/ Newsprint, Timber, Construction & Demolition (suitable for backfill material), Plastic and Glass. Household mixed recyclables are collected and accepted at the facility, where the waste is forwarded off-site for further recovery. All waste deemed unsuitable for recycling/recovery is loaded into and compacted within ejector trailers on-site. All compacted wastes are covered and subsequently transported for authorised disposal. All waste being transported from the facility is weighed and recorded at the weighbridge. An individual weigh docket is printed for each waste load.

2.0 WASTE MANAGEMENT RECORD

The waste that arrives at the site may be characterised as follows:

- Household Waste
- Commercial Waste
- Industrial-Non hazardous Waste
- Construction and Demolition

These waste classifications, subsequent to inspection, can be further categorised as been either suitable for recycling/recovery offsite or disposed to off-site authorised disposal facilities. Hazardous waste is not accepted at the AES Rosslare Waste Transfer Station. Hazardous waste in the form of batteries and fluorescent tubing that are inadvertently accepted to the site are segregated into individual storage skips/areas within the plant and subsequently collected by authorised contractors for further treatment/disposal. Any materials that are suspect in nature (i.e. hazardous or not acceptable at the facility) are routed to the Waste Quarantine Area within the Recycling Plant for further examination and processing prior to removal off-site for appropriate treatment/disposal by an appropriate hazardous waste contractor.

2.1 Waste activities carried out at the Facility

Waste activities at the facility are restricted to those outlined in *Part 1 - Activities Licensed of the Waste Licence*.

Licensed waste disposal activities, in accordance with the Third Schedule of the Waste Management Acts 1996 to 2008:

- Class 11. Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.*
- Class 12. Repacking prior to submission to any activity referred to in a preceding paragraph of this Schedule.*
- Class 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 was produced.*

Licensed waste recovery activities, in accordance with the Fourth Schedule of the Waste Management Acts 1996 to 2008:

- Class 2 Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes). (P)*
- Class 3 Recycling or reclamation of metals and metal compounds:*
- Class 4 Recycling or reclamation of other inorganic materials:*

Class 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.

2.2 Waste Quantities and Composition

In accordance with Condition 11.9 of the Waste Licence, details of all wastes arriving at and departing from the facility are recorded. The details, which are maintained in a full record on site, include:

- The tonnages and EWC code for the waste materials imported and/or sent off-site for disposal / recovery.
- The names of the agent and carrier of the waste and their waste collection permit details, if required (to include issuing authority and vehicle registration number).
- Details of the ultimate disposal/recovery destination facility for the waste and its appropriateness to accept the consigned waste stream, to include its permit/licence details and issuing authority, if required.
- Written confirmation of the acceptance and disposal/recovery of any hazardous waste consignments sent off-site.
- Details of all wastes consigned abroad for recovery and classified as “Green” in accordance with the EU Transfrontier Shipment of Waste Regulations (Council Regulation EEC No. 259/1993, as amended). The rationale for the classification must form part of the record.
- Details of any rejected consignments.
- Details of any approved waste mixing.
- The results of any waste analyses required under Schedule C: Control and Monitoring of this licence.
- The tonnages and EWC Code for the waste materials recovered/disposed on-site.

In accordance to requirements of the Waste Licence, W0229-01, a summary of the waste recovered /disposed at the facility over the period from 1st January 2011 to 31st December 2011 is presented in Table 2.1 & 2.2 overleaf.

Table 2.1: Incoming Waste to AES Rosslare Waste Transfer Station 2011	
EWC Code	Incoming Waste (Tonnes)
15 01 01 BC – Baled Cardboard	363.41
15 01 01 C – Cardboard	1,488.96
15 01 01 MX – Mixed Paper & Cardboard Packaging	1,516.29
15 01 02 PL – Plastic	255.68
15 01 06 – Mixed Packaging	4.72
15 01 07 – Glass Packaging	259.81
17 01 02 – C&D	1,104.79
17 02 01 – Wood	224.51
17 04 07 – Mixed metals	58.44
17 09 04 – C&D	520.35
20 01 08 – Kitchen & Canteen Waste	273.41
20 03 01 C – Mixed Municipal Waste	16,276.49
20 03 01 K – Kerbside Recyclables	2,862.87
Total Incoming Waste	25,209.73

Table 2.2: Quantities of Waste Recovered / Disposed at Facility during 2011				
EWC Code	Outgoing Waste (Tonnes)	Waste Recovery / Disposal Destination Name	Waste Recovery / Disposal Destination Address	Licence / Permit No.
15 01 01 BC – Baled Cardboard	1,171.48	(MLM) ACN Europe (UK)	Adamson House, Towers Business Park, Wilmslow Road, Didsbury, Manchester M20 2YY	-
15 01 01 C – Cardboard	20.46	Nantwich Ltd	126, East Wall Road, East Wall, Dublin 3	-
	39.94	Recycle 2000	Kerlogue Industrial Estate, Wexford.	WP 98/0001
15 01 01 MX – Mixed Paper & Cardboard Packaging	1,257.64	AES Tullamore	Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly	W0104-02
	122.32	Killarney Waste Disposal (KWD) Ltd	Aughacurreen, Killarney, Co. Kerry	W0217-01
15 01 02 - Plastic	329.34	Leinster Environmental	Clermont Business Park, Haggardstown, Dundalk, Co. Louth	WP 2008/06
	8.74	Agnail Ltd	Unit 9 Rossfield, 50 Rosemount Business Park, Ballycoolin, Dublin 11,	LS-11-000101
	9.86	Re-Gen Waste Ltd	Shepherds Drive, Carnbane Industrial Estate, Newry, Co. Down, BT35 6JQ	LN/04/08/A
15 01 07 - Glass Packaging	249.15	Urban & Rural Recycling	Creeg, Ballycogley, Co. Wexford.	WP/06/36(A)
	29.74	Thornton Recycling	Parkwest Business Park, Dublin 12.	WCP-DC-09-1190-01
17 01 07 - Mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	688.52	Drehid Waste Management Facility	Killinagh Upper, Carbury Co. Kildare	W0201-03
	226.13	Ardinagh Construction Waste	Ardinagh, Taghmon, Co. Wexford	WFP-WX-10-0012-02
	207.44	Greenstar Ltd	Six Crossroads Business Park, Cork Road, Waterford	WO177-03
17 02 01 – Wood	13.10	Thornton Recycling	Parkwest Business Park, Dublin 12.	WCP-DC-09-1190-01
	144.22	Murray Waste Recycling Ltd	Coolatore, Ferns, Enniscorthy, Co Wexford	WP-108-23
17 04 07 – Mixed Metals	8.98	Molly Metals Recycling Ltd	Ballycarney, Ferns, Enniscorthy, Co Wexford	WP0814
	48.24	Multimetals Recycling Ltd	Bollarney, The Murrough, Co. Wicklow	WFP-WW-09-0014-01

Table 2.2 continued: Quantities of Waste Recovered / Disposed at Facility during 2011				
EWC Code	Outgoing Waste (Tonnes)	Waste Recovery / Disposal Destination Name	Waste Recovery / Disposal Destination Address	Licence / Permit No.
19 12 09 – Minerals	30.30	Drehid Waste Management Facility	Killinagh Upper, Carbury Co. Kildare	W0201-03
19 12 12 other wastes	1,026.18	Ballynagran Residual Landfill	Ballynagran, Coolbeg and Kilcandra, County Wicklow	W0165-02
20 01 08 – Biodegradable Kitchen & Canteen Waste	201.36	O'Toole Composting Ltd	Ballintrane, Carlow	WP 01/07
20 03 01 C – Mixed Municipal Waste	9004.20	Ballynagran Residual Landfill	Ballynagran, Coolbeg and Kilcandra, County Wicklow	W0165-02
	187.70	Greenstar Ltd Bray	La Vallee House, Fassaroe, Bray, Co. Wicklow, Wicklow.	W0053-03
	2,498.15	AES Navan	Proudstown Road, Navan, Co. Meath	W0131-02
	72.74	Drehid Waste Management Facility	Killinagh Upper, Carbury Co. Kildare	W0201-03
	7.18	Agnail Ltd	Unit 9 Rossfield, 50 Rosemount Business Park, Ballycoolin, Dublin 11	LS-11-000101
	9.78	Leinster Environmental	Clermont Business Park, Haggardstown, Dundalk, Co. Louth	WP 2008/06
20 03 01 D	4,836	Ballynagran Residual Landfill	Ballynagran, Coolbeg and Kilcandra, County Wicklow	W0165-02
	560	Greenstar Ltd Bray	La Vallee House, Fassaroe, Bray, Co. Wicklow, Wicklow.	W0053-03
	3.28	Re-Gen Waste Ltd	Shepherds Drive, Carnbane Industrial Estate, Newry, Co. Down BT35 6JQ	LN/04/08/A
20 03 01 K – Kerbside Recyclables	810.86	AES Tullamore	Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly	W0104-02
	1,431.46	South Eastern Region MRF	Shandon, Dungarvan, Co. Waterford	W0189-01
	496.51	Killarney Waste Disposal (KWD) Ltd	Aughacurreen, Killareny, Co. Kerry	W0217-01
	15.52	Thornton Recycling	Parkwest Business Park, Dublin 12.	WCP-DC-09-1190-01
Total Waste	25,766.52 Tonnes			

3.0 EMISSIONS FROM THE FACILITY

During the reporting period wastewater collected from site from bunds, interceptors, silt traps, bin/vehicle washing sump, weighbridge sump and underground storage tank are as follows:

- 12 tonnes (M & T Plant Hire).

An estimate of storm water emissions from the facility can not be determined as flow is not monitored. Weekly chemical analysis of storm water samples is undertaken.

Surface water, dust and noise monitoring results are discussed in Section 6 of this report.

4.0 RESOURCE AND ENERGY CONSUMPTION

4.1 Resource Consumption Summary

Some resources consumed at AES Rosslare Waste Transfer Station are recorded. During the reporting period water usage on-site is not metered and has not been recorded, therefore, calculation of water usage is not possible at present.

Road Diesel Consumption was 324,263 Litres.

The total electrical consumption at the site was 18,300 kWh during the reporting period. During the same period wastewater produced at the facility (collected from site from bunds, interceptors, silt traps, bin/vehicle washing sump, weighbridge sump and underground storage tank) was recorded as 12 tonnes (M & T Plant Hire).

4.2 Energy Efficiency Audit Report Summary

To comply with Condition 7.1 of the Waste Licence an Energy Efficiency Audit Report was submitted to the EPA in 2008. In 2010, the findings of the report were implemented, where feasible.

4.3 Water Consumption

The volume of wastewater produced at the facility and transported off-site is presented above in Section 4.1.

Please refer to Progress against Targets for 2011 (Table 5.1) for developments in minimising water demand and the volume of trade effluent discharge, in compliance with Condition 7.3, which include investigating the feasibility of the collection and re-use of rainwater for vehicle washing. At present, timelines have been pushed out as there are Health & Safety concerns and may not be practical on-site - Please refer to Proposed Schedule of Objective & Targets 2012 (Table 5.2).

4.4 Raw Materials Consumption & Waste Generation

Please refer to Progress against Targets for 2011 (Table 5.1) for the progress made towards minimising raw material consumption and waste generation in 2011. Progress made includes:

- Organic waste bins were installed in the canteen and the yard.
- Household Glass Bins were rolled out with the Brown Bins in February 2011.
- Pay-by-Lift service was offered to household customers to incentivise the use of the more cost effective recycling and brown bins.
- Clear plastics were separated from coloured plastics to increase quality of plastics for onward recycling.
- The quantity of BMW sent to landfill was calculated on a quarterly basis to ensure that Diversion Targets are met.

Please refer to Objective & Targets 2012 (Table 5.2) for proposals being developed in 2012 to minimise raw material consumption and waste generation. Proposals include:

- Continue to roll out the household Glass Bin collection service in the region.
- Pay-by-Lift service will continue to be offered to Household customers to incentivise the use of the more cost effective recycling and brown bins.
- There will be better segregation of recyclable material to ensure maximum recovery.
- Roll-out of household brown bins.
- The quantity of BMW sent to landfill will be calculated on a quarterly basis to ensure that Diversion Targets are met.
- Investigate the feasibility of the collection and re-use of rainwater for vehicle washing.
- Continue to review collection routes in order to maximise efficiency of labour and fuel consumption.

5.0 ENVIRONMENTAL OBJECTIVES & TARGETS

5.1 Progress against Targets for 2011

Details on progress made against the Targets for 2011 are presented in Table 5.1.

Table 5.1: Progress against Targets for 2011			
Ref	Objective	Target	Status
1	Improved Waste Management	Install organic waste bins in canteen and yard.	Completed – February 2011
2	Maximise recovery of recyclables	Household glass bin bring rolled out with brown bins in February 2011.	Completed.
		Pay-By-Lift service being offered to household customers to incentivise the use of the more cost effective recycling and brown bins.	Completed.
		Clear Plastic will be separated from Coloured Plastics to increase the quality of plastics for onward recycling.	Completed.
3	Diversion of biodegradable waste from landfill	Household Brown Bins bring rolled out in February 2011.	Completed.
		The quantity of BMW sent to landfill will be calculated on a quarterly basis to ensure that diversion Targets are met.	Completed.
4	Environmental Monitoring	As per Waste Licence: should any limits be exceeded, corrective actions to be implemented.	Completed.
5	Investigate options for the reduction and/or re-use of water on-site	Investigate the feasibility of the collection and re-use of rainwater for vehicle washing.	Incomplete.
6	Efficiency of Fuel Consumption	Streamline Routes. Computer programme being acquired for AES Group to manage collection route to ensure maximum efficiency of labour and raw materials.	Completed.
7	Upkeep of Environmental Management System	Ongoing review of procedures, objectives & targets, and aspects register.	Completed.
8	Vehicle Maintenance Programme to be reviewed	Vehicle Maintenance Contractor to be hired for AES Group to provide a more reliable and traceable service	Completed.

5.2 Schedule of Objectives and Targets for 2012

The proposed schedule of Objectives and Targets for 2012 is presented in Table 5.2

Table 5.2: Proposed Schedule of Objectives and Targets for 2012					
Ref	Objective	Target	Timescale	Response	Status
1	Maximise Recovery of Recyclables	Continue to roll out Glass Bin collection service in the region.	Dec-12	SL	Ongoing.
		Pay-by-Lift service being offered to Household customers to incentivise the use of the more cost effective recycling and brown bins.	Dec-12	SL	Ongoing.
		Better segregation of recyclables to maximise recovery.	Dec-12	SL	Ongoing.
2	Diversion of biodegradable waste from landfill	Household Brown Bin being rolled out.	Dec-12	SL	Ongoing.
		The quantity of BMW sent to Landfill will be calculated on a quarterly basis to ensure that Diversion Targets are met.	Dec-12	SL	Ongoing.
3	Environmental Monitoring	As per Waste Licence: Should any limits be exceeded, corrective actions to be implemented.	Dec-12	Enviro Team	Ongoing.
4	Investigate options for the reduction and/or re-use of water on-site	Investigate the feasibility of the collection and re-use of rainwater for vehicle washing.	Aug-12	EM/SL	Ongoing.
5	Efficiency of Fuel Consumption	Continue to review collection routes in order to maximise efficiency of labour and fuel consumption.	Dec-12	Logistics Manager	Ongoing.
6	Upkeep of Environmental Management System	Ongoing review of procedures, objectives & targets, records, training and aspects register.	Dec-12	Enviro Team	Ongoing
7	Upgrade Site Equipment	Installation of new roller door on Bay 3 as a means of odour control.	July-12	Group	Ongoing
8	Environmental Training & Awareness	Continue internal training programme and assessment of training needs for all operational staff during 2012.	Dec-12	Enviro Team	Ongoing
9	Raise awareness with contractors of Environmental Policy of the site	Contractors Induction	Dec-12	Enviro Team	Ongoing
10	Environmental Compliance	Review licence conditions outlined within W0229-01	Dec-12	SL/EM	Ongoing

6.0 SUMMARY OF ENVIRONMENTAL MONITORING

Environmental monitoring at the facility is carried out in accordance with Condition 6 and Schedule C of the Waste Licence for the facility. The following sections 6.1 to 6.3 present the results of monitoring for the year 2011.

The environmental media monitored and the frequencies of monitoring at the facility are as follows:

1. Noise	Annually
2. Dust Deposition	Three times per annum
3. Storm Water Emissions	Weekly & Quarterly

Section 6.0 presents a summary of the Environmental Management Programme for the facility.

6.1 Noise Monitoring Report Summary

In compliance with the requirements of the Waste Licence, W0229-01, annual noise monitoring at the AES Rosslare Waste Transfer Station was undertaken. Monitoring was carried out on the 16th November 2011 (Report Number – ECS4044 – Noise).

LA_{eq}, LA₁₀ LA₉₀ values and 1/3 Octave band analyses was determined at five site boundary locations (N1 – N5) and at two noise sensitive locations (N6 and N7). The noise monitoring locations are presented in Table. 6.1 and the locations are identified in Appendix 1.

Table 6.1: Noise Monitoring Locations		
Map Reference No.	Location Type	Geographical location from the site centre
N1	Boundary	South Western corner beside the main office
N2	Boundary	North Western corner
N3	Boundary	North Eastern corner
N4	Boundary	South Eastern corner behind the main office
N5	Boundary	Outside the recycling shed
N6	Noise sensitive	Across from entrance to Kilrane Business Park
N7	Noise sensitive	On the road opposite the main office

The full set of results are presented in Table 6.2.

The daytime LA_{eq} recorded at the five boundary locations ranged from 51 dB(A) at N2 and N3 to 62 dB(A) at N4. At the noise sensitive locations the noise levels (L_{eq}) ranged from 63 dB(A) at N7 to 69 dB(A) at N6.

Table 6.2: Noise Monitoring Results						
Map Reference No.	Measurement Period (mins)	Time	L_{eq} dB(A)	L_{10} dB(A)	L_{90} dB(A)	L_{AFMax} dB(A)
N1	30	09:42	54	58	40	72
N2	30	10:28	51	53	44	78
N3	30	11:01	51	54	43	74
N4	30	15:00	62	64	48	82
N5	30	11:35	59	61	50	78
N6	30	14:08	69	69	42	93
N7	30	12:12	63	56	39	87

The noise levels, $L_{A_{eq}}$ recorded at the boundary locations N1, N2 and N3 were below the noise limit of 55 dB(A).

Elevated noise levels were noted at two of the boundary locations (N4 and N5) during the monitoring period. N4 represents the highest L_{eq} level recorded at the boundary locations with a L_{eq} of 62 dB(A). The only sources of noise from the AES facility at the N4 location included the revving of AES vehicles and the banging of skips. The main source of external noise came from vehicles on the local road (7 cars, 3 trucks, 2 vans and 1 artic), and one truck beeping the horn while it passed the meter which was responsible for the $L_{AF_{max}}$ to 82 dB(A). Onsite observations indicate that the main source of noise audible at the N5 monitoring location was due to the segregation of material by machine within the recycling shed. Another source of noise was the movement of two skips into the yard and passing the noise meter which would have increased the average sound pressure level and was responsible for the $L_{AF_{max}}$ of 78 dB(A). Other noise sources from the AES facility included site traffic (1 jeep, 1 truck and 1 artic). External noise sources included traffic on the local road (4 cars) and noise from the nearby garage (welding).

No tonal noise was detected at any of the five boundary locations.

The noise levels ($L_{eq}(A)$) recorded at the noise sensitive locations N6 and N7 were 69 dB(A) and 63 dB(A), respectively, above the limit set out in the Waste License of 55 dB(A). Onsite observations indicate that the main source of noise audible at N6 was due to heavy traffic on the adjacent road (24 cars, 2 vans, 4 artics and 1 oil tanker), which was intermittent yet dominant over the duration of the 30 minute monitoring event. It is suspected that one of the four passing articulated lorries was responsible for the significantly elevated $L_{AF_{max}}$ (93dB(A)). The main source of noise at the N7 location was off-site passing traffic. A total of 15 cars, 1 van, 1 jeep and 1 articulated lorry passed close to the meter during the monitoring event, which contributed to the high $L_{AF_{max}}$ of 87 dB(A).

Tonal noise was not detected at the noise sensitive locations N6 and N7.

6.2 Ambient Monitoring Summary

In compliance with the requirements of the Waste Licence, W0229-01, dust monitoring at the AES Rosslare Waste Transfer Station was undertaken. Monitoring was carried out three times during the reporting period. There are four^{Note 1} dust monitoring locations on site, detailed in Table 6.3 and identified in Appendix 1. The Waste Licence limit for dust deposition is given as 350mg/m²/day as per Schedule B.5.

Table 6.3: Dust Monitoring Locations	
Monitoring Location	Description
A2-1	South Western corner beside Reception
A2-2	Middle of site beside power washer
A2-3	North western corner of facility
A2-4 ^{Note 1}	North eastern corner of the facility

Four Bergerhoff dust gauges were continuously exposed for a 32 day period between the 31st January – 4th March (Round 1) and for 32 days from 9th May – 10th June March (Round 2). Finally, three dust gauges^{Note 1} were exposed for 31 days from 18th July – 18th August (Round 3). The results for monitoring are presented in Table 6.4.

Table 6.4: Dust Monitoring Results (mg/m ² /day)				
Monitoring Location	Dust Deposition Limit	Deposition Rate (Round 1) (Report ECS3828)	Deposition Rate (Round 2) (Report ECS3928)	Deposition Rate (Round 3) (Report ECS3975)
A2-1	350	Note 2	694	261
A2-2	350	280	742	155
A2-3	350	54	253	61
A2-4 ^{Note 1}	350	91	403	Note 1

Note 1: AES Rosslare was given approval during the year to cease dust monitoring at the monitoring point A2-4.

Note 2: Dust gauge fell from its location during this monitoring period.

The results were elevated above the EPA limit of 350 mg/m²/day at A2-1, A2-2 and A2-4 during the second round of monitoring. All the other results are under the licence limit. After the Round 2 monitoring event, on-site notes indicated that the A2-1, A2-2 and AA-4 dust containers have some solids/stones present while A2-4 had a small amount of feces present. Feces in the dust jar are a result of bird dropping and thus can not be considered as a representative result for this monitoring location.

In addition, the exceptionally dry weather during the monitoring period (57mm of rainfall, compared to 113mm for the same period in 2010) can also result in very dusty conditions. The dry weather causes dust to become airborne from the movement of traffic both within

and around the AES facility. Located to the front of the AES facility where the main entrance is positioned is road side gravel. This road side gravel causes dust to become airborne as a result of traffic movement on the road.

A2-1 is located at the South West corner of the facility, beside Reception and beside the main access road to neighbouring industrial facilities. Traffic on this access road would have contributed to high dust levels. On-site sources of dust may have originated from the loading bay located 10m away from the dust monitoring location during the second monitoring period. A2-2 is located mid site beside the power washer. The washing on trucks and skips beside the dust jar may have resulted with some of the washing being captured in the dust jar. A2-4 is located at the North East corner of the facility, and beside the main access road to the neighbouring industrial estate. As with the A2-1 location, traffic on this access road would have contributed to high dust levels.

The dust gauge at the monitoring location A2-1 fell from its location during the first monitoring period, and therefore, no result was available.

6.3 Surface Water Monitoring Report Summary

In accordance with Waste Licence, W0229-01 Schedule C.2.3, AES Rosslare is required to carry out a Daily Visual Inspection, weekly sampling of pH, Conductivity and Suspended Solids and quarterly sampling of COD, Ammonia and Mineral Oils from the surface water in the immediate environs of its Waste Transfer Facility.

Surface water monitoring locations are presented in Table 6.5 and the monitoring locations are identified in Appendix 1.

Table 6.5: Surface Water Monitoring Locations	
Monitoring Location	Description
SW-1	Located upstream of the AES facility
SW-2	North eastern corner of AES facility
SW-3	Located 10m immediately downstream of SW-2

The monthly average results of the weekly surface water monitoring are presented in Table 6.6. Emission limits for surface waters are not specified in the Waste Licence.

Quarterly Monitoring occurred on the 31st January, 9th May, 18th July and finally on the 16th November 2011. The results of Quarterly surface water monitoring are presented in Table 6.7. Emission limits for surface waters are not specified in the Waste Licence.

Table 6.6: Average Monthly Surface Water Results												
Parameter	January	February	March	April	May	June	July	August	September	October	November	December
	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1
pH (pH units)	7.7	7.5	7.6	7.8	7.7	7.7	7.6	7.7	7.8	7.6	7.6	7.3
Conductivity (µS/cm)	739	700	743	807	794	767	750	794	773	644	783	557
Suspended solids (mg/l)	26	20	27	7	8	4	4	43	21	50	9	9
	SW-2	SW-2	SW-2	SW-2	SW-2	SW-2	SW-2	SW-2	SW-2	SW-2	SW-2	SW-2
pH (pH units)	7.6	7.5	7.6	7.8	7.7	7.6	7.5	7.8	7.9	7.6	7.4	7.2
Conductivity (µS/cm)	754	706	743	795	792	764	681	794	777	642	708	552
Suspended solids (mg/l)	11	11	26	15	4	4	6	15	23	44	8	7
	SW-3	SW-3	SW-3	SW-3	SW-3	SW-3	SW-3	SW-3	SW-3	SW-3	SW-3	SW-3
pH (pH units)	7.6	7.5	7.6	7.8	7.7	7.6	7.5	7.7	7.8	7.6	7.4	7.3
Conductivity (µS/cm)	739	704	744	795	791	762	698	793	783	644	705	552
Suspended solids (mg/l)	10	11	25	13	7	3	20	18	26	44	9	9

Table 6.7: Quarterly Surface Water Results

Parameter	Quarter 1 (Report ECS3828)	Quarter 2 (Report ECS3928)	Quarter 3 (Report ECS3975)	Quarter 4 (Report ECS4044)
	SW-1	SW-1	SW-1	SW-1
On-Site Visual Inspection	Clear colour, No SS, Low flow No oily surface	Clear colour, No SS, Very low flow, Plenty of vegetation present	Clear colour, Very few SS, Very low flow, Plenty of vegetation present	Clear in colour, Very few SS, Plenty of vegetation present
Odour	No odour	No odour	No odour	No odour
COD (mg/l)	16	<10	24	19
**Mineral Oils (µg/l)	<10	<10	<10	<10
Ammonia (mg/l as N)	0.05	0.05	0.02	0.16
	SW-2	SW-2	SW-2	SW-2
On-Site Visual Inspection	Clear colour, Few S.S, Slightly oily surface	Clear colour, Very few S.S, Slightly oily surface, Very low flow	Clear colour, Very few S.S, Large oily sheen on surface	Yellow in colour, High S.S, Very low flow, Plenty of vegetation present
Odour	No Odour	No odour	Slight odour	No odour
COD (mg/l)	18	<10	20	23
**Mineral Oils (µg/l)	<10	<10	<10	<10
Ammonia (mg/l as N)	0.06	<0.02	0.04	0.21
	SW-3	SW-3	SW-3	SW-3
On-Site Visual Inspection	Pale yellow colour, Very few S.S Very oily surface	Clear colour, No S.S, No flow, Vegetation present	Clear colour, Few S.S, Plenty of algae & vegetation present	Clear in colour, High S.S
Odour	No Odour	No odour	Strong Oily Odour	Oily odour
COD (mg/l)	23	<10	<10	20
**Mineral Oils (µg/l)	<10	<10	<10	460
Ammonia (mg/l as N)	0.06	0.03	0.09	0.08

Notes: ** = Subcontracted Test

< Indicates less than the laboratory detection limit

The results of the analysis of the grab sample of surface waters obtained from the Advanced Environmental Solutions Ltd. on a quarterly basis are presented in Table 6.7.

The Ammonia-N results fluctuated slightly throughout the year ranging from <0.02 mg/l at SW-2 (Quarter 2) to 0.21 mg/l at SW-2 (Quarter 4). Mineral Oils were detected once throughout the year, at a concentration of 460 µg/l at SW-3 (Quarter 4). The remainder of the sampling locations remained below the laboratory limit of detection (<10 µg/l) throughout 2011. The COD results detected at the three monitoring locations fluctuated throughout the year. The concentration of COD ranged from <10 mg/l to 24 mg/l at SW-1 and from <10 mg/l to 23 mg/l at both SW-2 and SW-3.

The greatest increases in parameter levels occurred in Quarter 4 2011. On the day of monitoring, there was a very low flow at SW-2. The SW-1 and SW-2 locations were densely populated with vegetation. There was heavy rainfall on the day of monitoring (15mm) and the road on which the SW-2 and SW-3 sampling points are located, was covered in potholes. Therefore, the run-off from the road would have contributed to the results reported for Quarter 4 2011 and the increase in the Mineral Oils concentration at SW-3 was not caused by any site activities.

6.4 Tank and Pipeline Testing & Inspection Reports

In accordance with the requirements of the company's Waste Licence (W0229-01) AES is required to conduct a bund integrity test, as stated under Condition 6.9.

Condition 6.9 of the Waste Licence states:

“The integrity and water tightness of all underground pipes, tanks, bunding structures and containers and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee within six months of the date of grant of this licence. The testing shall be carried out by the licensee at least once every three years thereafter and reported to the Agency on each occasion. This testing shall be carried out in accordance with any guidance published by the Agency. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee”.

Tank and Pipeline Testing & Inspections for the site were carried out in 2011. A CCTV survey of the underground pipelines was carried out at the facility during 2011. It was carried out by Boyne Waste Services Ltd. on August 4th 2011 and was found to be compliant.

6.5 Environmental Management Programme

The Environmental Management Program (EMP) form part of the Objectives and Targets for the facility, presented in Table 5.1 & 5.2. Among the measures outlined in the Tables, it is proposed for the coming year:

- Undertake an ongoing review of procedures, objectives & targets, record, training and aspects register.
- To hold Monthly EMS Meetings.
- Investigate the feasibility of the collection and re-use of rainwater for vehicle washing.
- Raise awareness with contractors of Environmental Policy of the site.
- Continue internal training programme and assessment of training needs for all operational staff during 2012.

7.0 SITE DEVELOPMENT/INFRASTRUCTURAL WORKS

7.1 Current Infrastructure in Place

The facility is currently licensed to accept a maximum of 23,000 tonnes of waste per annum (5,400 tonnes of Household waste, 8,600 tonnes of Commercial waste, 4,000 tonnes of Non hazardous Construction and Demolition (C&D) waste and 5,000 tonnes of Non-hazardous Industrial waste). The current operating Capacity is 440 tonnes per week.

Summary details on Duty & Standby Capacity are presented in Table 7.1.

Table 7.1: Summary List of Plant and Machinery	
List of all Machinery and Equipment	
	Trommel
	Pickling line
	Baler
	Track Machine (360)
	Loading Shovel
	2 forklifts (1 equipment with grab, 1 for moving)

Most waste arriving on-site is already source segregated. Should the trommel break down, waste is sorted manually with track machine and by general operatives. Should the track machine or loading shovel break down, a replacement would be hired in.

The network of sites owned by AES and their proximity is a beneficial factor considering standby. Should the baler be down for an extended period, recyclable would be sent to AES Tullamore unbaled and baled there. Should the trommel remain out of action for a few days, waste would be re-directed to AES Portlaoise for segregation.

7.2 Site Development Works during 2011

There was no site development works undertaken in 2011.

7.3 Proposed Development Works for 2012

During 2012, it is anticipated that the site will install a new roller door on Bay 3 as a means of odour control. Further details are also provided in Table 5.2: Proposed schedule of Objectives and Targets for 2012.

8.0 INCIDENTS & COMPLAINTS

8.1 Complaints Summary

All environmental complaints are recorded at the facility. Nine complaints were received by the site during the 2011 reporting period. Summary details are presented in Table 8.1.

Table 8.1: Summary of Complaints		
Date	Complaint Summary Details	Action Summary Details
14/2/2011	Odour	Odour check undertaken and a slight odour observed. Odour block was sprayed on the yard.
2/3/2011	Odour	Odour check undertaken and it was observed that the odour originated from a skip. This skip was removed and the site was sprayed with odour block.
23/3/2011	Litter	Carried out a sweep on the main road, but no litter was observed at that time.
21/4/2011	Odour	Odour check undertaken and a slight odour observed from Shed 3 due to the loading of waste into trailers for dispatch. The site was sprayed with odour block.
28/4/2011	Odour / Litter	Odour check undertaken and a slight odour observed from Shed 3 where waste was being loaded. A member of staff also removed any litter from the main road.
3/6/2011	Odour	Odour check was undertaken and some odours were noticed in Shed 3. The site was sprayed with odour block. It was a very hot day with a maximum temperature of 21°C recorded at the Johnstown Castle weather station.
11/7/2011	Odour	Odour check was undertaken and odour was detected as compactor being unloaded. The site was sprayed with odour block.
26/8/2011	Odour	Odour check was undertaken and no odour was observed on site. The site was sprayed with odour block as a precautionary measure.
31/8/2011	Odour	Odour check was undertaken and no odour was observed on site. The site was sprayed with odour block as a precautionary measure.

8.2 Reported Incidents Summary

All environmental incidents are recorded at the facility. Two incidents were recorded by the site during the 2011 reporting period. Summary details are presented in Table 8.2.

Table 8.2: Summary of Incidents	
Date	Incident Summary Details
May/June 2011	Elevated dust level above licence limit.
Nov 2011	Elevated noise levels above Licence Limit.

8.3 Accident Prevention and Emergency Response

Condition 9.1 of the Waste Licence states:

“The licensee shall, within six months of date of grant of this licence, ensure that a documented Accident Prevention Procedure is in place which will address the hazards on-site, particularly in relation to the prevention of accidents with a possible impact on the environment. This procedure shall be reviewed annually and updated as necessary”.

Condition 9.2 of the Waste Licence states:

“The licensee shall, within six months of date of grant of this licence, ensure that a documented Emergency Response Procedure is in place which shall address any emergency situation which may originate on-site. This Procedure shall include provision for minimising the effects of any emergency on the environment. This procedure shall be reviewed annually and updated as necessary”.

The accident prevention and emergency response has been prepared for the following:

- EP-ERP-01_General Emergency Preparedness & Response.doc
- EP-ERP-02_Spill Clean Up Procedure.doc
- EP-ERP-03_Fire Explosion Procedure.doc
- EP-ERP-04_Malicious Damage Procedure.doc
- EP-ERP-05_Unforeseen Emergencies & Fugitive Emissions.doc
- EPL 5.1 EMERGENCY CONTACT LIST.doc

These documents are included in full in the Annual Environmental report for 2010.

9.0 FACILITY MANAGEMENT

9.1 Report on Financial Provisions

In 2008, Goff Recycling Limited was acquired by AES (Ireland) Ltd. which is a wholly-owned subsidiary of Bord Na Móna plc. AES Rosslare t/a Goff Recycling Ltd has access to the reserves of its parent company.

The environmental liabilities (environmental damage and remedial actions) are those considered to be restricted to the confines of the facility, therefore, any costs incurred in addressing same will be limited to the removal and safe disposal of the waste remaining on-site following an emergency event (e.g. fire or spillage event) or the decommissioning and closure of the site. Such environmental liabilities cover should account for the cost of the clean up and removal of the maximum amount of waste that may be stored onsite at any given time.

AES (Ireland) Ltd. and Bord na Móna have arranged insurance to cover the liability arising from damage to property and injury to parties as a result of sudden and unforeseen environmental impairment. AES (Ireland) Ltd have insurance cover for “Business Interruption” and have adequate reserves for the cost of removing the maximum amount of waste that may be stored on-site at any given time and to ensure that said material is transported to an authorised and capable facility. In the unlikely event of full decommissioning, financial reserves are available to allow a formal surrender of the licence ensuring that the inherent environmental safeguard associated with this regulatory process is activated.

9.2 Management & Staffing Structure

The management and staffing structure of the facility is described in Figure 9.1.

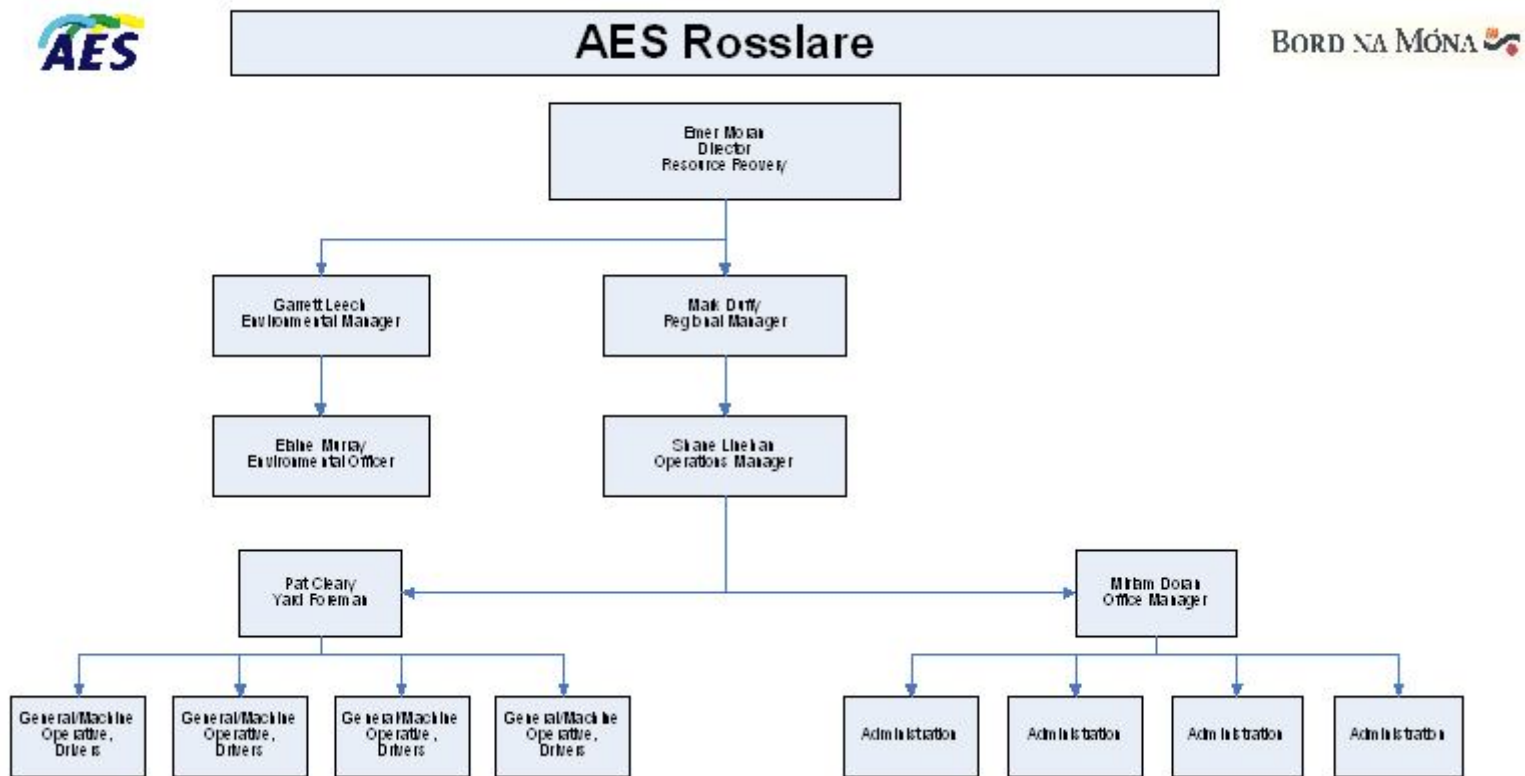


Figure 9.1: Management and Staffing Structure

9.3 New Procedures Developed During 2010

Environmental Management for AES Rosslare was revised during 2009 and was awarded ISO14001 certification on the 26th of January 2010.

As part of the ISO 14001 accredited EMS maintained at the facility, a new odour control procedure was rolled out on-site during 2011.

9.4 Review of Nuisance Controls

There were no nuisance/pest issues in during the 2011 reporting period and there are no proposed amendments to nuisance controls for 2012. AES Rosslare have a vermin control procedure in place, (Reference – WI 2.0 Site Inspection Procedure) with an associated Daily Environmental Nuisance Inspection Form (Reference – EWIF 2.2 Daily environmental Nuisance Inspection Form).

The full procedure is attached in the Annual Environmental Report for 2010.

APPENDIX 1

Drawings

Surveyed 1996
Revised 2004
Levelled 1992

Map B.2.1 Location Map of the Goff Recycling Ltd. site Kilrane, Rosslare Harbour



Legend

- = Site boundary
- = Grid Reference point (E313215 N111026)

DESCRIPTION

MAP SCALES

1:2500
5715-A



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Goff Recycling Ltd.

Site Location Map
Date: January 2006

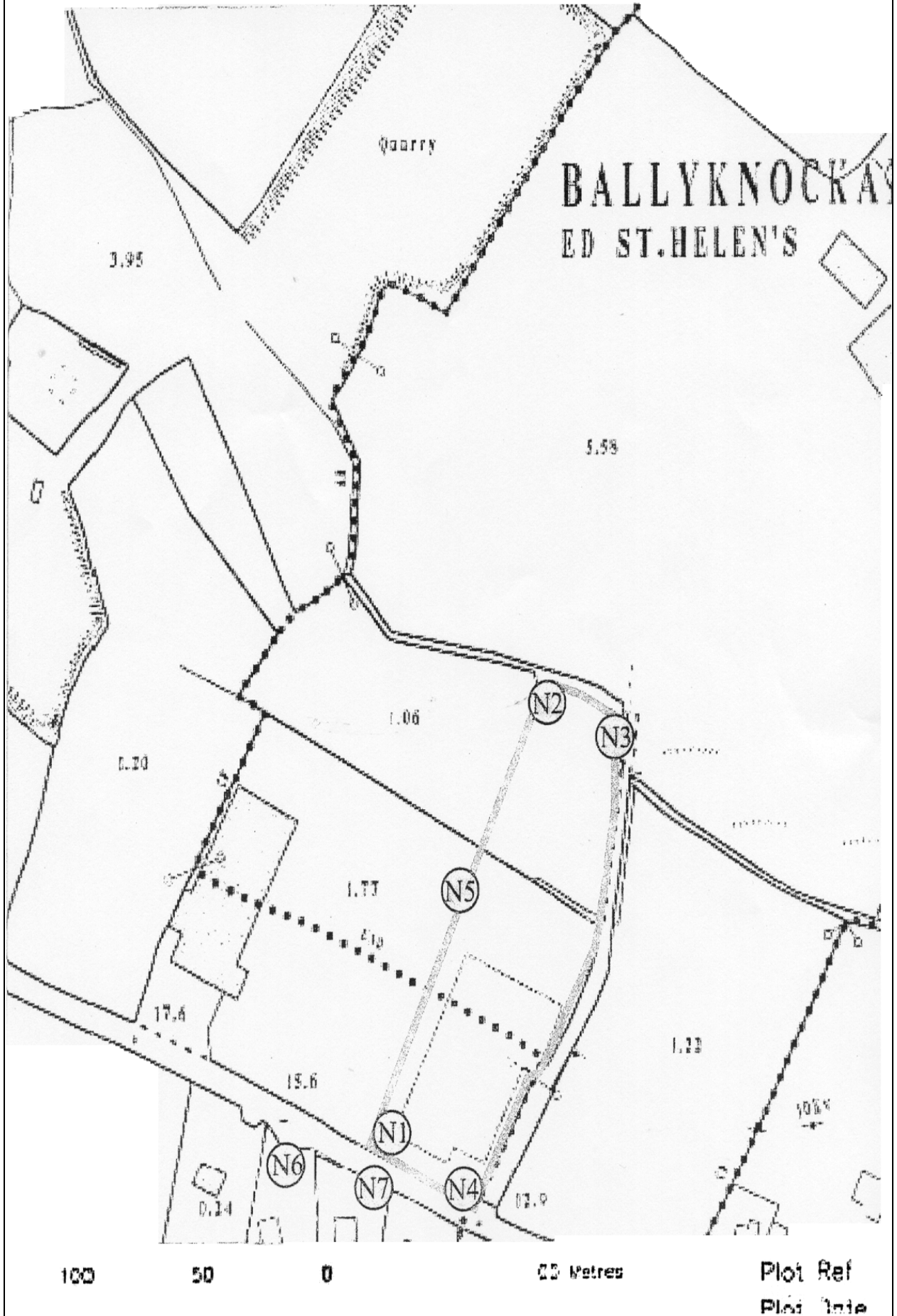
ENVIROCO Management LTD
Environmental Consultants

Scale:- 1:2500
Scale:- 1:2500



Plot Ref. No. 21934_1
Plot Date 17-JUN-2005

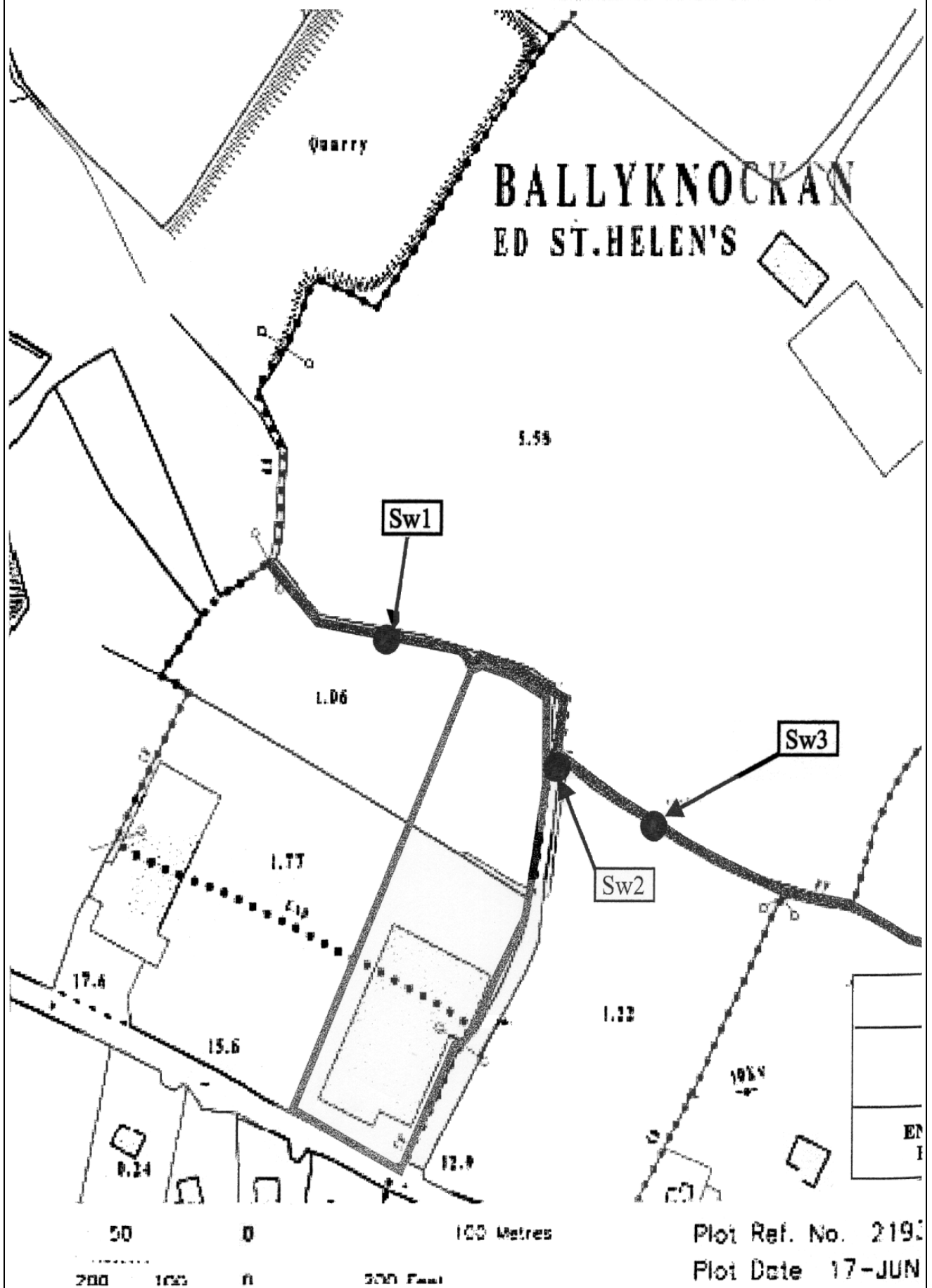
Noise Monitoring locations at the Goff Recycling Ltd. Rosslare Site



Dust Monitoring locations at the Goff Recycling Ltd. Kilrane, Site



Water Monitoring locations at the Goff Recycling Ltd. Rosslare Site



APPENDIX 2

Summary of Emissions and Waste Management



| PRTR# : W0229 | Facility Name : Goff Recycling Limited | Filename : W0229_2011(1).xls | Return Year : 2011 |

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.13

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

1. FACILITY IDENTIFICATION

Parent Company Name	Advanced Environmental Solutions (Ireland) Limited
Facility Name	Goff Recycling Limited
PRTR Identification Number	W0229
Licence Number	W0229-01

Waste or IPPC Classes of Activity

No.	class_name
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.
3.11	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.12	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
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	Ballygillane Big/Ballyknockan
Address 2	St. Helens
Address 3	Kilrane
Address 4	Rosslare Harbour, County Wexford
	Wexford
Country	Ireland
Coordinates of Location	-6.34359 52.2398
River Basin District	IESE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Elaine Murray
AER Returns Contact Email Address	Elaine.Murray@bnm.ie
AER Returns Contact Position	Environmental Officer
AER Returns Contact Telephone Number	045-439464
AER Returns Contact Mobile Phone Number	087-6570234
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
5(c)	Installations for the disposal of non-hazardous waste
5(c)	Installations for the disposal of non-hazardous waste
50.1	General
3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)	
Is it applicable?	
Have you been granted an exemption ?	
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

B. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities on this sheet in T tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Lic. Waste Transfer and Licence/Permit No. of Main Depositor/Facility	Lic. Waste Name and Licence/Permit No. of Recipient/Operator	Lic. Waste Address of Main Depositor/Facility	Lic. Waste Address of Recipient/Operator	Name and Location of Plant No. and Address of Final Receiver / Depositor (WASTE RECOVERY)	Address of Final Destination (ie. Final Recovery / Depositor Site (WASTE RECOVERY))
						WCP	Method Used							
To Other Countries	15 01 01	No	1171.48	paper and cardboard packaging	D1	M	Weighted	Abroad	MSM/AGN Europe,				Admission House, Towers Business Park, Wiltshire Road, Didbury, Manchester M20 2TY, United Kingdom	
Within the Country	15 01 01	No	30.40	paper and cardboard packaging	D1	M	Weighted	Offsite in Ireland	Nenbeth Ltd.				Wal, Dublin 3, Ireland	
Within the Country	15 01 01	No	39.04	paper and cardboard packaging	D1	M	Weighted	Offsite in Ireland	Recycle 2000/WP 000001				Kentique Industrial Estate, Wexford, Ireland	
Within the Country	15 01 01	No	1267.64	paper and cardboard packaging	D1	M	Weighted	Offsite in Ireland	AES Tullamore/W1104-02				Coppaun Industrial Estate, Dangan Road, Tullamore, Co. Offaly, Ireland	
Within the Country	15 01 01	No	122.50	paper and cardboard packaging	D1	M	Weighted	Offsite in Ireland	Kilmore Waste Deposit (KWSD) Ltd, W0217-01				Rughaicormac, Kilmore, Co. Kerry, Ireland	
Within the Country	15 01 02	No	529.34	plastic packaging	D1	M	Weighted	Offsite in Ireland	Lonsdale Environmental/WP000000				Clonsilla Business Park, Fagganstown, Dunblin, Co. Louth, Ireland	
Within the Country	15 01 02	No	8.78	plastic packaging	D1	M	Weighted	Offsite in Ireland	Agree Ltd, L5-11-001/01				11, Fota Road, Shephards, Inver, Carbone Industrial Estate, Newry, Co. Down, BT26 6UG, United Kingdom	
To Other Countries	15 01 02	No	8.00	plastic packaging	D1	M	Weighted	Abroad	Re-Cor Waste Ltd, LN9600A, Utton & Rural				Osney, Ballymoley, Co. Wicklow, Ireland	
Within the Country	15 01 07	No	249.15	glass packaging	D1	M	Weighted	Offsite in Ireland	Recycling/WP000000				Wexford, Ireland	
Within the Country	15 01 07	No	29.74	glass packaging	D1	M	Weighted	Offsite in Ireland	Thornes Recycling/WCP-DC-00-1196-01				Parlow Business Park, Dublin 12, Ireland	
Within the Country	17 01 07	No	668.02	01 00 mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 07	D1	M	Weighted	Offsite in Ireland	Dried Waste Management Facility, W0211-00				Kilnagh Upper, Carbery, Co. Kerry, Ireland	
Within the Country	17 01 07	No	226.18	01 00 mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 07	D1	M	Weighted	Offsite in Ireland	Ardagh Construction Waste, WP-W4-10-0012-02				Ardagh, Taghmon, Co. Wicklow, Ireland	
Within the Country	17 01 07	No	207.44	01 00 mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 07	D1	M	Weighted	Offsite in Ireland	Greener Ltd, W0117-00				26, Crossroads Business Park, Don	
Within the Country	17 02 01	No	13.1	WOOD	D1	M	Weighted	Offsite in Ireland	DC-00-1196-01				Parlow Business Park, Dublin 12, Ireland	
Within the Country	17 02 01	No	144.22	WOOD	D1	M	Weighted	Offsite in Ireland	Murray Waste Recycling Ltd, W1-104-00				Coolmore Park, Buncrocity, Co. Wicklow, Ireland	
Within the Country	17 04 07	No	6.86	mixed metals	D1	M	Weighted	Offsite in Ireland	Malley Metals Recycling Ltd, W00014				Ballycorney Farm, Dunscoil by, Co. Wicklow, Ireland	
Within the Country	19 12 00	No	34.3	sludges (for example sand, slimes) other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 00	D1	M	Weighted	Offsite in Ireland	Dried Waste Management Facility, W0201-00				Kilnagh Upper, Carbery, Co. Kerry, Ireland	
Within the Country	19 12 10	No	6026.16	11	D1	M	Weighted	Offsite in Ireland	Killybeggan Residual Landfill, W0165-00				Ballybeggan, Coolbeg & Killybeggan, Co. Wicklow, Ireland	
Within the Country	20 01 00	No	201.30	biodegradable kitchen and sanitary waste	D1	M	Weighted	Offsite in Ireland	O'Keefe Composting Ltd, W01607				Ballehans, Carlow, Ireland	
Within the Country	20 03 01	No	13040.2	mixed municipal waste	D1	M	Weighted	Offsite in Ireland	Killybeggan Residual Landfill, W0165-00				Ballybeggan, Coolbeg & Killybeggan, Co. Wicklow, Ireland	

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Fac/Code - Name and Licence/Permit No. of Host Destination Facility Fac/Code - Name and Licence/Permit No. of Receiving Operator	Fac/Code - Address of Host Destination Facility Fac/Code - Address of Receiving Operator	Name and Licence /Permit No. and Address of Final Receiver / Operator (EU/ROSD/28 TRANS. 04/7)	Actual Address of Final Destination (4 - Final Facility) (EU/ROSD/28 TRANS. 04/7)
						MICR#	Method Used					
Within the Country	20 03 01	No	747.7	mixed municipal waste	D1	M	Weighted	Offsite in Ireland	Greenstar Ltd (S16), W0013-01	La Motte Road, Pallasree, May Co. Wicklow, Ireland	Greenstar Ltd (S16), W0013-01	
Within the Country	20 03 01	No	2490.45	mixed municipal waste	D1	M	Weighted	Offsite in Ireland	AES Newen, W0121-02 District Waste Management Facility, W0201-03	Moath, Ireland Kilnagh Upper, Carbury, Co. Wicklow, Ireland Unit 8 Rosefield, 80 Rosewood Business Park, Ballyvaughan, Dublin 11, Ireland	AES Newen, W0121-02 District Waste Management Facility, W0201-03	
Within the Country	20 03 01	No	7.18	mixed municipal waste	D1	M	Weighted	Offsite in Ireland	Agrol Ltd, L5-11-000101	Clonsilla Business Park, Haggartstown, Dundalk, Co. Louth, Ireland	Agrol Ltd, L5-11-000101	
Within the Country	20 03 01	No	0.18	mixed municipal waste	D1	M	Weighted	Offsite in Ireland	Leicester Environmental WY200909	Shephards Drive, Cambana Industrial Estate, Newry, Co. Down, BT20 6JQ, United Kingdom	Leicester Environmental WY200909	
To Other Countries	20 03 01	No	3.28	mixed municipal waste	D1	M	Weighted	Abroad	Re-Gen Waste Ltd,	Cappinure Industrial Estate, Dangan Road, Tullamore, Co. Offaly, Ireland	Re-Gen Waste Ltd,	
Within the Country	20 03 01	No	810.86	mixed municipal waste	D1	M	Weighted	Offsite in Ireland	AES Tullamore, W0184-02 South Eastern Region MBP, W0166-01	Shannon, Dungannon, Co. Wicklow, Ireland	AES Tullamore, W0184-02 South Eastern Region MBP, W0166-01	
Within the Country	20 03 01	No	1421.46	mixed municipal waste	D1	M	Weighted	Offsite in Ireland	Kilnery Waste (Hospital RWI) Ltd, W0217-01	Agglacurion, Killybeg, Co. Kerry, Ireland	Kilnery Waste (Hospital RWI) Ltd, W0217-01	
Within the Country	17 04 07	No	46.24	mixed metals	D1	M	Weighted	Offsite in Ireland	Multimetal Recycling Ltd, WFP-WW-09-0014-01 Thurston Recycling, BCF-DC-04-1590-01	Marrough, Wicklow, Co. Wicklow, Ireland Park, Dublin 12, Ireland	Multimetal Recycling Ltd, WFP-WW-09-0014-01 Thurston Recycling, BCF-DC-04-1590-01	
Within the Country	20 03 01	No	16.92	mixed municipal waste	D1	M	Weighted	Offsite in Ireland				

* Actual quantity based on the Description of all materials over the entire period