### ANNUAL ENVIRONMENTAL REPORT For 2008



### ADVANCED ENVIRONMENTAL SOLUTIONS IRELAND

Licence Register No:

W0229-01

Licensee:

Advanced Environmental Solutions (Ireland) Ltd.

t/a Goff Recycling

Location of Activity:

Kilrane, Rosslare Harbour

Co. Wexford

Attention:

EPA Headquarters, P.O. Box 3000

Johnstown Castle, Co. Wexford

Prepared by:

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Advanced Environmental Solutions (AES) Ire. Ltd.

Unit 1 Monread Commercial Park, Monread Road, Naas, Co. Kildare



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### 1 Introduction

In accordance with the requirements of Waste Licence, Register Number W0229-01, the following document represents the Annual Environmental Report (AER) for AES Rosslare for the reporting period January - December 2008. Detailed within is a summary of all licensed related activities on-site during this period that has an influence on the environmental performance of the company. Environmental emissions summary data for the reporting period is also reported, together with the required information as set out in Schedule E of the licence.

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. Operations at the facility include the receipt of domestic, commercial, industrial and construction and demolition waste, which is sorted and segregated for onward recycling in accordance to recycling potential. Waste deemed unsuitable for recycling and recovery is segregated and compacted for final disposal off-site.

### 1.1 Site Description

### 1.1.1 General

The licensed waste activities that take place at the site as per the Waste Management Acts, 1996 to 2005, are outlined as follows:

### Third Schedule -Waste Disposal Activities

- Class 11: Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this schedule.
- Class 12: Repackaging 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 is produced.

### Fourth Schedule -Waste Recovery Activities

- Class 2: Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes).
- 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.

### 1.1.2 Waste Types

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 site. 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.

### 1.1.3 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, Register No. 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 on-site 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, Glass and onoccasion empty gas cylinders. 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 Waste Management Record

In accordance to requirements of the Waste licence Register No. W0229-01, details of all wastes arriving at and departing from the facility is recorded. The waste summary records for this reporting period are presented in Table 1 below.

Table 1: Quantities of Waste Recovered/Disposed from Goff Recycling/AES Rosslare for 2008

Material	EWC Code	Tonnes	Destination	Address
Paper & Cardboard Packaging	15 01 01	16	Mr. Binman Clearpoint, WP 035-02	Ballylynch, Carrick-on-Suir Co. Tipperary
Paper & Cardboard Packaging	15 01 01	233	International Recycling Ltd.	Heath House, 5 Woolgate Court, St. Benedicts Street, Norwich NR2 4AP, England
Paper & Cardboard Packaging	15 01 01	286	Highlander International Recycling	Highlander House, 1 Teigngrove, East Kilbridge, Scotland G75 8UZ
Paper & Cardboard Packaging	15 01 01	875	Marwin Environmental Trading Ltd., Broker Reg. 926	7 Glyntown Heights, Glanmire, Co. Cork
Paper & Cardboard Packaging	15 01 01	302	Greyhound Waste Recycling	Crag Avenue, Clondalkin, Dublin
Plastic Packaging	15 01 02	83	Greyhound Waste Recycling	Crag Avenue, Clondalkin, Dublin
Plastic Packaging	15 01 02	5	Danelle Recycling, WP 01/08	Ballon, Co. Carlow
Concrete & Bricks	17 01 07	1605	CRS Recycling & Crushing Services, WP 05/24	Montague, Gorey, Co. Wexford
Concrete & Bricks	17 01 07	1919	Goff Developments Ltd, WP/06/30	Jacketstown, Drinagh, Co. Wexford
Concrete & Bricks	17 01 07	15	Holmestown Waste Management Facility, EPA W0191-01	Barntown, Co. Wexford
Wood	17 02 01	839	Shredwood Ltd., WP/TN/101	Derryhogan, Littleton, Co. Tipperary
Mixed Metals	17 04 07	333	Midland Scrap Metal Co. Ltd., WMP02/2008	Harbour St, Mountmellick, Co. Laois
Minerals (Sand, Stone)	19 12 09	401	Drehid Waste Management Facility, W0201-01	Killinagh Upper, Carbury, Co. Kildare
Mechanically Treated Mixed Waste	19 12 12	1337	Drehid Waste Management Facility, W0201-01	Killinagh Upper, Carbury, Co. Kildare
Mechanically	19 12 12	492	KTK Landfill, W0081-3	Kilcullen, Co. Kildare

### AES (Ireland) Ltd. Rosslare W0229-01.-Annual Environmental Report 2008

Treated Mixed		T	T	
Waste				
Mechanically			Holmestown Waste	Barntown, Co. Wexford
Treated Mixed	19 12 12		Management Facility,	***
Waste		119	EPA W0191-1	
Mixed Recyclables	20 03 01K		Mr. Binman Clearpoint,	Ballylynch, Carrick-on-Suir,
1411Aca Recyclables	20 03 01K	370	WP 035-02	Co. Tipperary
Mixed Recyclables	20 03 01K	2005		Cappincur, Tullamore, Co
	20 03 0116	30	AES Tullamore, W0104-1	Offaly
Mixed Municipal			Drehid Waste	
Waste	20 03 01		Management Facility,	Killinagh Upper, Carbury,
W dote		121	W0201-01	Co. Kildare
Mixed Municipal			Holmestown Waste	Barntown, Co. Wexford
Waste	20 03 01		Management Facility,	
TT dote		328	EPA W0191-1	
Mixed Municipal	20 03 01		AES Portlaoise, W0194-	Kyletalesha, Portlaoise, Co.
Waste	20 03 01	17	02	Laois
Mixed Municipal	20 03 01		Rampere Landfill,	Rampere, Co. Wicklow
Waste	20 03 01	6243	W0066-02	

### 3 Summary report on emissions, including interpretation and location plan

### 3.1 Storm Water/Emissions to Sewer Monitoring

Schedule C.2.3 of the licence requires the following storm water monitoring to be carried out;

- Daily Visual Inspection
- Weekly sampling of pH, conductivity and suspended solids
- Quarterly sampling of COD, Ammonia and Mineral Oils

Daily visual inspections of storm water are carried out by site personnel, recorded on Storm Water Visual Inspection Logsheet and filed on-site. The weekly and quarterly analysis of storm water was carried out by Euro Environmental Services during 2008 and results were forwarded to the Agency. The results indicate that there were no storm water emissions of environmental significance.

### 3.2 Dust Monitoring

Euro Environmental Services were commissioned to carry out dust monitoring as per Schedule C6 of the licence at the facility. Dust Report No.'s 4370/M05, 4370/M08 and 4730/M07 were submitted to the Agency. The dust deposition limit as specified in Scehdule B5 of the licence was exceeded at one of the four monitoring points (A2-1) during the July/August monitoring event (see report no. 4370/M08). It should be noted that monitoring point A2-1 is located adjacent to the N25 road and therefore dust generated by traffic travelling on this road could have contributed to the elevated dust level at this point. Furthermore, all results for the two other monitoring events (Report No.'s 4370/M05 and 4370/M07) in April/May and August/September were below the dust deposition limits at all monitoring locations.

### 3.5 Noise Monitoring

Euro Environmental Services were commissioned to carry out noise monitoring at the facility. Noise Report No. 4370/M04 was submitted to the Agency. The noise emission limit as specified in Schedule B4 of the Licence was exceeded at two of the monitoring points. The Noise Report concluded that the road traffic along the N25 and small adjacent roads contributed significantly to the increased noise level recorded at NL 4 during daytime monitoring hours. It should also be noted that the entrance to the facility is a common entrance shared by all the facilities in the business park. Therefore, noise attributed to traffic entering and exiting the business park could not be attributed solely to the Goff Recycling facility. Furthermore, NL 5 is located adjacent to the carpark which is shared by other facilities in the business park.

See Appendix A for Map of Sampling Locations at AES Rosslare EPA Reg. No. W0229-01

### 4 Resource & Energy Consumption Summary

For the period January 2008-December 2008, energy and fuel bills were as follows;

• Electricity: €18,000

• Road Diesel: €226,521

• Green Diesel: €15,600

There is no meter on the water supply to the facility therefore calculation of water usage is not possible. However, it is planned to install a meter during 2009 to facilitate accurate calculation of water usage.

### 5 Reported Incidents and Complaints summaries

All environmental incidents and complaints are recorded at the facility.

### 5.1 Incidents:

The incidents reported to the Agency are detailed in Section 3.

### 5.2 Complaints:

15/05/2008: A local resident complained that there was an odour emanating from the site and the fast action door was open. Site Manager Eamonn O' Neill informed the resident that the fast action door had broken down and was being repaired.

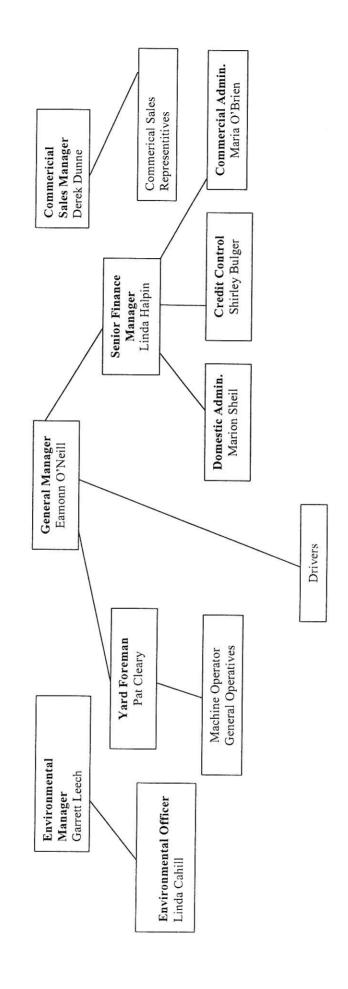
23/05/2008: A local resident complained that there was an odour emanating from the site. Site Manager Eamonn O'Neill informed the resident that Goff Recycling was awaiting delivery of parts for the fast actions door and were also in talks with Wexford County Council with a view to using their facility in Holmestown to directly dispose of non-recoverable material.

26/05/2008: A local resident complained that there was an odour emanating from the site. Site Manager Eamonn O'Neill informed the resident that talks were still ongoing with Wexford County Council and the fast action door would be repaired within the week.

28/05/2008: A local resident complained to the EPA and to the facility directly that there was an odour emanating from the site. Francis Goff, director of Goff Recycling, wrote a letter of response to the EPA and wrote to the resident to arrange a meeting. Goff Recycling has since begun sending non-recoverable source segregated waste directly to Holmestown Landfill and no other complaints were received.

Managing Structure

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### 7 Schedule of Environmental Objectives and Targets

	Environmental Objective	ves – Report for 2008
	2008 Proposal	Action
1	Implement electronic weighbridge system	In September 2008, the facility weighbridge was connected IWS (Integrated Waste Management
2	Identify all monitoring points	System)  All monitoring points have been labelled and identified on a facility planned which is on display
3	Compile a monitoring schedule	A monitoring schedule has been compiled and implemented
4	Commission an energy audit	An energy audit was conducted during 2008 and was submitted to the Agency. The findings have been reviewed with the view to implementing the recommendations where possible.

Table 2 Report on 2008 Environmental Objectives & Targets

	2009 Environmental Objectives
1	To complete a trial of the use Dipetane, an additive for diesel, to investigate the feasibility of its use in decreasing diesel consumption.
2	Installation of upgraded Dust Suppression System
3	Maximise throughput of picking line to maximise the recovery of recyclables and to minimise disposal of materials
4	Internal Waste Awareness Campaign
5	To begin trialling domestic brown bins for the segregation and collection of biodegradable waste

Table 3 Environmental Objectives for 2009

### 8 Tank and Pipeline Testing & Inspection Report

Inspections of tanks or pipelines were not required in 2008. Inspections and cleaning of tanks and interceptor are carried out in accordance with EMS Procedure EOP 009. Records are kept of all inspections and cleaning.

### 9 Development / Infrastructural works in place & planned

There were no development or infrastructural works undertaken during 2008

### 10 Summary of any procedures developed in 2008

There were no major new procedures developed in 2008.

### 11 Pollution Emission Register

PTRT data was reported to the Agency electronically on the 30<sup>th</sup> of March 2009. The Treatment & Transfer of Waste section was completed. Under the methodology as no ELV or proscribed pollutants were listed in the licence, the Releases to Air, Water, Wastewater or Sewer and Land for 2008 contained null values. Please see Appendix B for a copy of the completed AER/PRTR Emissions Data Worksheet.

### 12 Report on Financial Provisions

In September 2008, Goff Recycling Ltd. was acquired by AES (Ireland) Ltd. which is a wholly owned subsidiary of Bord na Móna. AES Rosslare t/a Goff Recycling now 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 Goff Recycling facility, therefore, any costs incurred in addressing same will be limited to the removal and safe disposal of the waste remaining onsite following an emergency event (e.g. fire or spillage event) or 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 on-site at any given time.

AES (Ireland) Ltd. and Bord na Móna have arranged insurance cover to cover 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 Interuption" 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.

### 13 Closure, Restoration & Aftercare Management Plan

Condition 10.1 of EPA Waste Licence No. W0229-01 states;

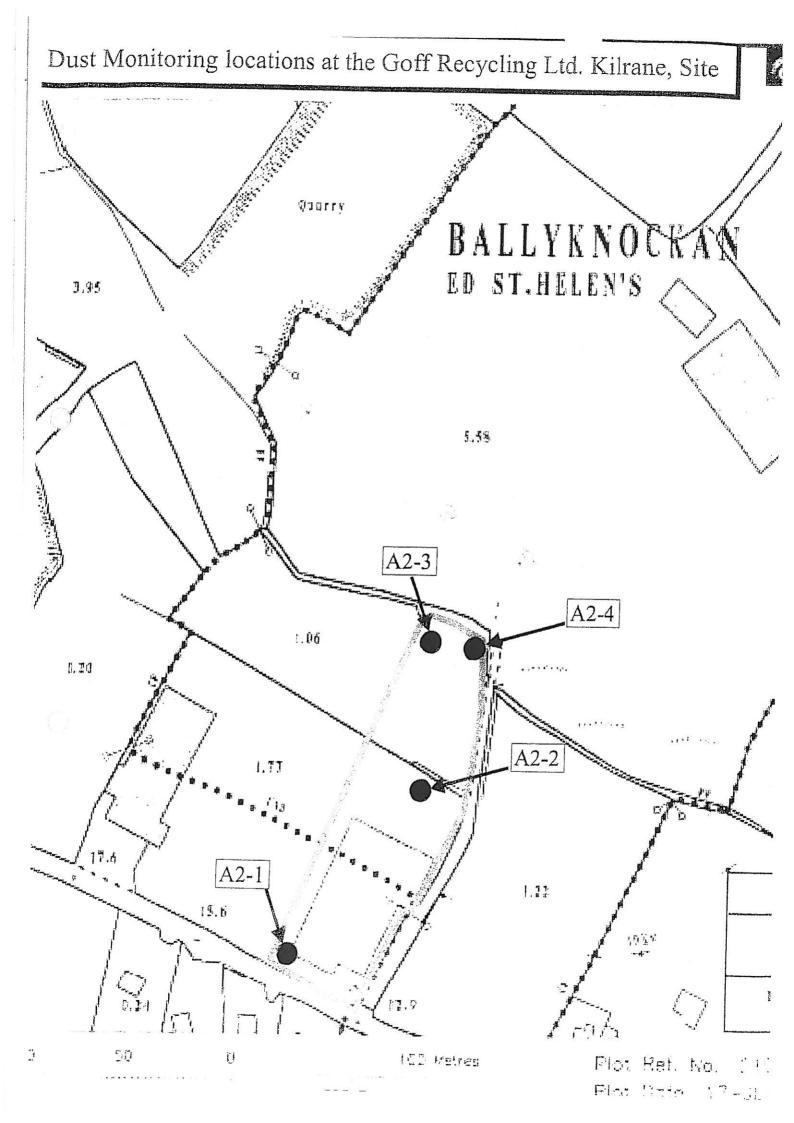
Following termination, or planned cessation for a period greater than six months, of use or involvement of all or part of the site in the licensed activity, the licensee shall, to the satisfaction of the Agency, decommission, render safe or remove for disposal/recovery, any soil, subsoils, buildings, plant or equipment, or any waste, materials or substances or other matter contained therein or thereon, that may result in environmental pollution. The licensee shall carry out such tests, investigation or submit certification, as requested by the Agency, to confirm that there is no risk to the environment.

AES Rosslare t/a Goff Recycling will adhere to this condition if the facility closes. See section 12 for Report on Financial Provision.

### 14 Programme for Public Information

The facility makes available information in relation to the waste licence for any member of the public wishing to view it. There is also a system in place for recording any complaints and carrying out corrective actions.

### Appendix A: Map of Sampling Locations at AES Rosslare EPA Reg. No. W0229-01



### **Appendix B: PRTR Returns Worksheet**



# **AER Returns Worksheet**

FACILITY IDENTIFICATION
 Parent Company Namel Advanced Environmental Solutions (freland) Limited
 Facility Namel Golf Recycling Limited
 Facility Namel W0229
 PRTR Identification Number W0229
 Licence Number W0229-01

## Waste or IPPC Classes of Activity

No. class_name
Storage prior to submission to any activity referred to in a preceding
paragraph of this Schedule, other than temporary storage, pending
3.13 collection, on the premises where the waste concerned is produced.
Recycling or reclamation of organic substances which are not used
as solvents (including composting and other biological
4.2 transformation processes).
4,3 Recycling or reclamation of metals and metal compounds.
4.4 Recycling or reclamation of other inorganic materials.
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
4.13 produced.
Blending or mixture prior to submission to any activity referred to in a
3,11 preceding paragraph of this Schedule.
Repackaging prior to submission to any activity referred to in a
3 12 preceding paragraph of this Schedule.

Address 1 Ballyqillane Big/Ballyknockan	
Address 2 St. Helens	
Address 3 Kilrane	and a supply and a substitute of the
Address 4 Rosslare Harbour, County Wexford	
Country Ireland	
Coordinates of Location 424241,000	
River Basin District IESE	
NACE Code 382	
Main Economic Activity Waste treatment and disposal	
AER Returns Contact Name Linda Cahill	
AER Returns Contact Email Addressicahill@aesirl.ie	
AER Returns Contact Position Environmental Officer	
AER Returns Contact Telephone Number 045-843805	
AFR Returns Contact Mobile Phone Number087-7697465	
AER Returns Contact Fax Number 045-981621	
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	
Wah Address	

Activity Name Installations for the disposal of non-hazardous waste 2. PRTR CLASS ACTIVITIES
Activity Number
5c.

## 3. SOLVENTS REGULATIONS (S.I. No. 643 of 2002)

											Name and Address of Final	Licence / Permit No of Final
											Destination i.e. Final	Destination i.e. Final
					Waste				Name and Licence / Permit		Recovery / Disposal Site	Recovery / Disposal Site
Transfer Destination	European Waste	Hazardous	Quantity	Description of Waste	Treatment Operation M/C/E	M/C/E Met	Method Used	Location of Treatment	-	Address of Recoverer / Disposer / Broker	(nazardous wasie	ONLY)
Within the Country	15 01 0	No	16.0 Pa	16.0 Paper & Cardboard Packaging	R3	M Wei	Weighed	Onsite in Ireland	Mr. Binman Clearpoint, WP 035-02	Ballylynch, Camck-on-Suir, Co. Tipperary		
					8				41 Indiana Glandian	Heath House, 5 Woolgate Court, St. Benedicts Street,		
To Other Countries	s 15 01 01	No No	233.0 Pa	233.0 Paper & Cardboard Packaging	2	M	Weigned	Onsite in Ireland	IIIIeiiiaiioiiai Necycliiig Liu	Highlander House, 1		
To Other Countries	15 01 01	o N	286.0 Pz	286.0 Paper & Cardboard Packaging	R3	M Wei	Weighed	Onsite in Ireland	Highlander International Recycling Marwin Environmental Tradional In Product Boo	Teigngrove, East Kilbridge, Scotland G75 8UZ		
Within the Country	15 01 01	o <sub>N</sub>	875.0 PE	875.0 Paper & Cardboard Packaging	R3	M Wei	Weighed	Onsite in Ireland 9	926	Glanmire, Co. Cork Crag Avenue, Clondalkin,		
Within the Country	15 01 01	No	302.0 PE	302.0 Paper & Cardboard Packaging	R3	M Wei	Weighed	Onsite in Ireland (	Greyhound Waste Recycling	Co. Dublin Craq Avenue, Clondalkin,		
Within the Country	15 01 02	No	83.0 PI	83.0 Plastic Packing	R5	M Wei	Weighed	Onsite in Ireland	Greyhound Waste Recycling	Co. Dublin		
Within the Country	15 01 02	No	5.0 Pk	5.0 Plastic Packing	R5	M Wei	Weighed	Onsite in Ireland	01/08 CPS Perveling & Carehing	Ballon, Co. Carlow Montague, Gorev, Co.		
Within the Country 17 01 07	y 17 01 07	No	1605.0 Cc	1605.0 Concrete & Bricks	R10	M Wei	Weighed	Onsite in Ireland	Services, WP 05/24 Goff Developments Ltd	Wexford Jacketstown, Drinagh, Co.		
Within the Country	17 01 07	o <sub>N</sub>	1919.0 Cc	1919.0 Concrete & Bricks	R10	M Wei	Weighed	Onsite in Ireland	WP/06/30 Holmestown Waste	Wexford		
									Management Facilty, EPA			
Within the Country	17 01 07	o <sub>N</sub>	15.0 Cc	15.0 Concrete & Bricks	R10	M Wei	Weighed	Onsite in Ireland	191-1	Barntown, Co. Wexford Derryhogan, Littleton, Co.		
Within the Country	17 02 01	No	839.0 Wood	pool	R3	M Wei	Weighed	Onsite in Ireland	Shredwood Ltd., WP/TN/101	Tipperary Harbour SI Mountmellick		
Within the Country	17 04 07	No.	333.0 Mi	333.0 Mixed Metals	R4	M Wei	Weighed	Onsite in Ireland	Ltd., WMP02/2008	Co. Laois		
									Drehid Waste Management	Strange Contraction		
Within the Country	19 12 09	o <sub>N</sub>	401.0 CZ	401.0 C&D Fines	R10	M	Weighed	Onsite in Ireland	Practility, WOZ01-01  Drehid Waste Management	Kilinagh Upper, Carbury		
Within the Country		ON.	1337.0 Me	1337.0 Mechanically Treated Mixed Waste	10		Weighed		Facility, W0201-01	Kilinagh Upper, Carbury		
Within the Country	19 12 12	2	492.0 Me	492.0 Mechanically Treated Mixed Waste	5	M Wei	Weighed	Onsite in Ireland	KTK Landfill, W0081-3	Kilcullen, Co. Kildare		
									Management Facilty, EPA			
Within the Country	19 12 12	No No	119.0 Me	119.0 Mechanically Treated Mixed Waste	10	M Wei	Weighed	Onsite in Ireland	191-1	Barntown, Co. Wexford		
		2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	O CONTRACTOR OF	6	M	Weinhed	Onsite in Ireland	Mr. Binman Clearpoint, WP 035-02	Ballylynch, Carrick-on-Suir, Co. Tipperary		
within the Counity	90 10 61	0	370.0 M	Ned Ned Capped	2					Cappincur, Tullamore, Co.		
Within the Country	15 01 06	No	30.0 Mi	30.0 Mixed Recyclables	R3	M Wei	Weighed	Onsite in Ireland A	AES Tullamore, W0104-01 Drehid Waste Management	Offaly		
Within the Country	20 03 01	o <sub>Z</sub>	121.0 M	121,0 Mixed Municipal Waste	10	M	Weighed	Onsite in Ireland	Facility, W0201-01 Holmestown Waste	Kilinagh Upper, Carbury		
Within the Country	20 03 01	No No	328.0 Mi	328.0 Mixed Municipal Waste	10	M Wei	Weighed	Onsite in Ireland	Management Facilty, EPA 191-1	Barntown, Co. Wexford Kyletalesha, Portlagise, Co.		
Mithin the County		S	17.0 M.	17.0 Mixed Municipal Waste	10	M	Weighed			Laois		
Within the Country	20 03 01	N N	AN O ENCA	6343 O Miyad Mimicipal Wasta	2		Moighod	Onsite in Ireland		Rampere Co Wicklow		