ANNUAL ENVIRONMENTAL REPORT

AES NAVAN WASTE TRANSFER STATION

January - December 2011

Waste Licence
Registration Number: W0131-02

Licensee: Advanced Environmental Solutions (AES) Ireland Ltd

Location of Activity: Proudstown Road, Navan,
County Meath

Attention: Office of Environmental Enforcement
EPA Headquarters
P.O. Box 3000
Johnstown Castle Estate
Co. Wexford

Prepared by: ANUA Environmetal

ANUA
Bord na Móna - with nature

AES

REVISION CONTROL TABLE

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Keywords: Waste Transfer Station, Annual Environmental Report (AER), waste recovery and disposal, environmental monitoring.

Abstracts: This report presents the Annual Environmental Report for AES Navan Waste Transfer Station in Navan, Co. Meath 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 Advanced Environmental Solutions (Ireland) Ltd, with a Waste Licence for its Waste Transfer Station at Clonmagaddan, Proudstown, Navan, Co. Meath on 3rd February 2006. The Waste Licence reference number is W0131-02.

The facility is currently licensed to a maximum of 95,000 tonnes of waste per annum (38,000 tonnes of Non-hazardous household waste, 33,000 tonnes of Commercial & Industrial waste and 23,750 tonnes of C&D waste).

In May 2007, Bord na Mona PLC acquired Advanced Environmental Solutions (AES) Ireland Ltd., one of Irelands leading waste management companies, which services 5,000 commercial customers and 60,000 domestic customers.

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.

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

This report addresses Condition 11.8 of the waste license for the facility which states;

''*The licensee shall submit to the Agency, by the 31st March 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 F: Annual Environmental Report of this license 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 License for the facility. This AER covers the reporting period from 1st January 2011 up to 31st December 2011.

1.1 Site Description and Activities

AES operates a Waste License (W0131-02) for its Waste Transfer Station at Proudstown Road, Navan, Co. Meath. Operations at the facility include the receipt of domestic, commercial, industrial and construction waste, which is sorted and segregated for onward recycling / recovery in accordance with the recycling potential. Waste deemed unsuitable for recycling / recovery is segregated and compacted for disposal off-site.

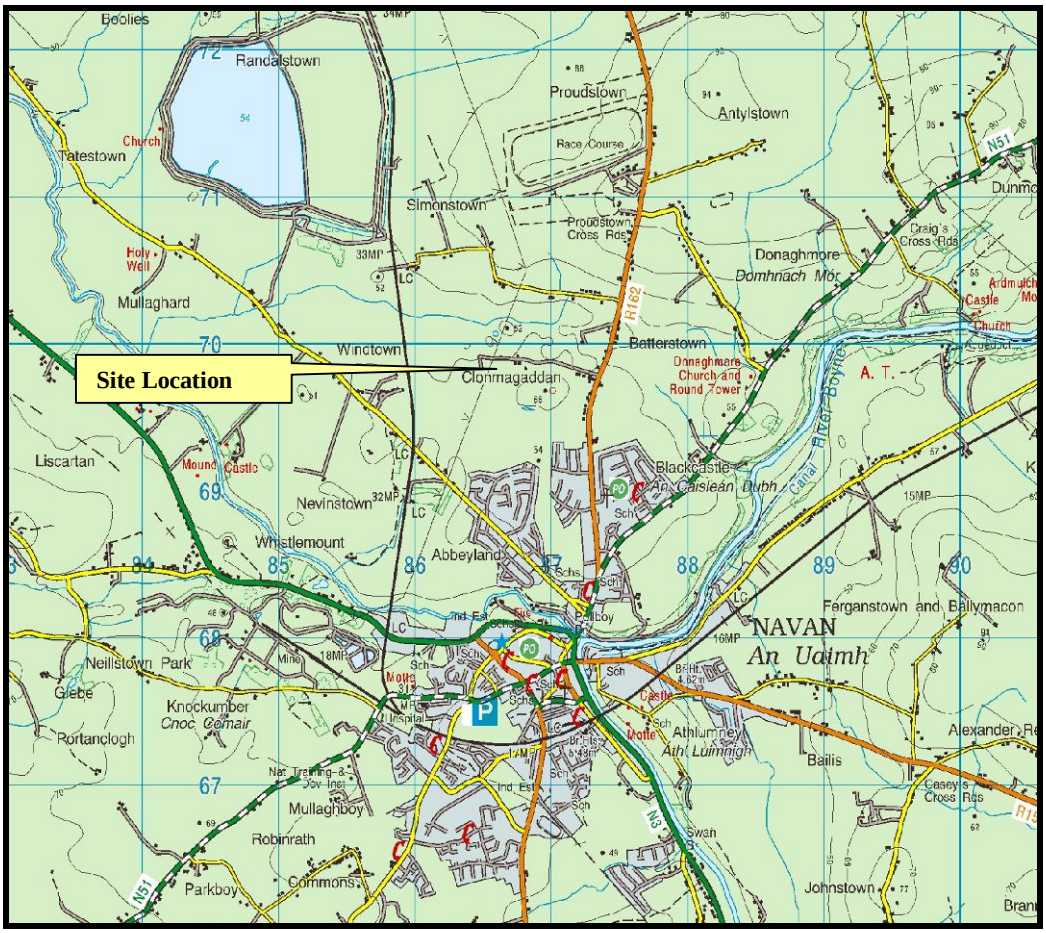


Figure 1.1 Site location map of the AES facility, Navan, Co. Meath.

The site location map and monitoring location maps are included in Appendix 1.

1.2 Waste Handling Procedure

Normal operational hours of the site are between the hours of 08:00 to 20:00 Monday to Saturday inclusive, with empty waste collection vehicles leaving the facility from 06:00 Monday - Saturday. All waste accepted at the facility for disposal is removed from the facility within 48 hours of its arrival (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 waste can be obtained.

After weighing, each waste load is brought to the enclosed Waste Processing Building where it is deposited on the floor for visual inspection to ensure that all wastes comply with the requirements of the Waste Licence, W0131-02. The Waste Segregation Manager is responsible for carrying out visual inspections and for maintaining a written record of all loads.

Written records of each inspection are recorded on the incoming waste inspection sheet at the end of each working day. Only after visual inspection can the waste be identified for disposal or recovery.

Within the Waste Processing Building the waste is sorted according to its recycling potential and is either deemed suitable for further onwards recycling/ recovery or compacted within one of the compactors on site/ejector trailers and transported off-site for final disposal (non-recoverable waste) to an authorised landfill. The categories of waste deemed suitable for segregations and recycling is dependent on available markets for such materials. Materials commonly accepted for recycling include; steel & iron, cardboard & newsprint, timber, soil & stone (suitable for backfill material), green waste, plasterboard, plastics and glass.

Household mixed recyclables are collected and accepted at the facility, where the waste is forwarded off-site for further processing and/or recovery. All waste deemed unsuitable for recycling/ recovery is loaded into designated ejector trailers or is compacted within one of the two compactors on-site. All compacted waste is sealed within specialised containers and are 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.

2.0 EMISSIONS FROM THE FACILITY

Emissions as per Schedule B of the Waste License, W0131-02, relating to energy and the use of the proposed bio-filters are not yet applicable. Surface-water, ground-water, dust and noise monitoring results are discussed inn Section 6 of this report.

Foul water produced at the facility (leachate and wastewater) is directed into a storage tank. This tank is emptied and wastewater directed to Navan Wastewater Treatment Plant (WWTP). In accordance with the requirements of the Waste Licence, W0131-02, details of each consignment of foul water removed from the facility is maintained. The overall waste summary records for the reporting period are presented in Table 2.1.

Table 2.1 Quantities of foul water removed from site during the reporting period (m^3).

Month	2004	2005	2006	2007	2008	2009	2010	2011
Jan	76	120	88	352	216	208	368	417
Feb	62	120	128	312	120	232	200	647
Mar	38	120	232	176	128	112	304	225
Apr	40	80	144	64	80	136	208	190
May	22	112	232	88	72	168	96	150
Jun	48	56	120	208	152	104	160	215
Jul	32	80	36	304	272	232	585	186
Aug	168	40	80	168	196	304	268	143
Sep	40	120	200	88	160	184	1,351	481
Oct	120	176	232	80	240	232	415	791
Nov	72	192	192	120	192	1,304	1,108	453
Dec	104	232	248	136	136	456	173	332
Total	**822**	**1,456**	**2,032**	**2,096**	**2,064**	**3,672**	**5,236**	**4,230**

3.0 WASTE MANAGEMENT RECORD

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

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

These waste classification, subsequent to inspection, can be further categorised as being either suitable for recycling / recovery off-site or disposal off-site to authorised disposal facilities. Hazardous waste is not accepted at the 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 are not accepted 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.

3.1 Waste Activities carried out at the Facility.

Waste activities carried out at the facility are restricted to those outlined in *Part 1 – Activities Licensed* of the Waste License.

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

Class 11 Blending or mixing prior to submission of 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 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 composing and other organic processes) (P).

Class 3 Recycling or reclamation of metals or metal compounds:

Class 4 Recycling or reclamation of other inorganic materials:

Class 11 Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule:

Class 12 Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.

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:

3.2 Waste Quantities and Composition.

The waste summary recorded for this reporting period is recorded and presented in Table 3.1. & 3.2 (waste recovered / disposed from the facility) overleaf.

Table 3.1: Incoming Waste to Midlands Waste Transfer Station	
EWC Code	**Incoming Waste (Tonnes)**
020399 - Coffey Sacks	5.72
020501	2.30
040222 - Waste from processed textile fabrics	74.28
150101BC - Bailed Cardboard	2158.38
150101BP – Baled Paper	13.50
150101C - Loose Cardboard	1857.05
150101MX - Mixed Paper & Cardboard	33.64
150102BPL - Baled plastic packaging	61.28
150102PL - Plastic packaging	32.64
150103 – Wooden Packaging	32.50
150106 – Mixed Packaging	0.16
150107 – Glass Packaging	287.96
160306 – Non-haz. organic waste	2.34
170107 – Rubble	56.08
170201 – C&D Glass	1.2
170202 - Glass	28.38
170203 - C&D plastics	8.86
170407 - C&D metals	27.74
170411 - Cable	8.44
170504 – Soil & Stone	38.32
170802 – Plaster Board	48.60
170904 – Mixed C&D	7968.52
180104 – Non Haz. Healthcare Waste	262.5
190801 - Screenings from waste water treatment plant	171.94
191204 Rubber	2.5
191212 – Mixed Waste from MRF	2112.62
200101MXP - Mixed paper	8.48
200101NP - Newsprint	21.18
200102 – Commercial Glass	11.6
200102D - Domestic Glass	56.88
200108 – Biodegradable Canteen Waste	1392.28
200108D	341.26
200136 Non Haz Electrical & Electronic waste	32.78
200138 - Wood	1091.56
200139 – Mixed Municipal Plastic	235.80
200140 - Metals	624.28
200201Green Biodegradable Waste	104.72
200301C – Commercial Mixed Waste	22260.15
200301D – Kerbside Blue Bin Contents Domestic Waste	15456.30
200301K – Kerbside Blue Bin Contents	5374.88
200303 – Street Cleaning Residues	1405.06
200307 Bulky Waste	17.1
Grand Total	**63,731.76**

Table 3.2 Outgoing Waste Recovered / Disposed from Midlands Waste Transfer Station				
EWC Code	**Outgoing Waste Vol. (tonne)**	**Destination Name**	**Destination Address**	**License No.**
020399	5.24	BNM Kilberry	Kilberry, Co. Kildare	W0198-01
080111*	0.4	Enva	Clonmainham Ind. Est. Portlaoise, Co. Laois	181-4
150101BC	2805.30	(MLM) ACM Europe	Adamstown Hse, Towers Buisness Pk. Wilmslow Rd., Didsbury, Manchester,	
150101BC	113.42	Irish Packaging Recycling	Ballymount Road, Walkinstown, Dublin 12	WPR 021/02
150101C	540	Irish Packaging Recycling	Ballymount Road, Walkinstown, Dublin 12	WPR 021/02
150102PL	1.66	Thornton Waste Disposal	Killeen Rd. Ballyfermot, Dublin 10	W0044-02
	26.34	Leinster Environmental	Clermont Business Park, Haggardstown, Dundalk, Co. Louth	WP2008/06
	14.52	AES Tullamore.	Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly	W0104-02
	6.70	ROC	Ballymacken, Ind. Est., Portlaoise, Co. Laois	WFP-LS-11-0001-
	203.82	Irish Packaging Recycling	Ballymount Road, Walkinstown, Dublin 12	WPR 021/02
150104	9.56	IMR	Unit 2, Duleek Business Pk.,Duleek, Co. Meath	WFP/09/0301
	44.82	Wilton Waste Recycling	Kiffa, Ballyjamesduff, Co. Cavan	W 06/03
150107	307.32	Glassdon Rec.	52 Creagh Rd., Toomebridge, Co. Antrim	
160103	27.56	Wilton Waste Recycling	Kiffa, Ballyjamesduff, Co. Cavan	W 06/03
	6.26	Crumb Rubber	Mooretown, Dromiskin, Dundalk, Co. Louth	DC/08/1136/01
	11.74	Ecological	Clermont Business Park, Haggardstown, Dundalk, Co. Louth	WP2008/06
160306	7.40	FSM	Co. Meath	
160505	4.76	Erin Recycling	Deepwater Quay, Finisklin, Sligo Harbour, Co. Sligo	WPSO-08-93
	2.68	Commons Fuels	Commons Lane, Navan, Co. Meath	
	1.04	Wilton Waste Recycling	Kiffa, Ballyjamesduff, Co. Cavan	W 06/03
160601	8.38	Wilton Waste Recycling	Kiffa, Ballyjamesduff, Co. Cavan	W 06/03
	2.56	IMR	Unit 2, Duleek Business Pk.,Duleek, Co. Meath	WFP/09/0301
170107	2396.62	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
	1017.30	Harristown	Harristown, Navan, Co. Meath	10/0004/01
170201	3077.34	Wilton Waste Recycling	Kiffa, Ballyjamesduff, Co. Cavan	W 06/03
	12.94	Thornton Waste Disposal	Killeen Rd. Ballyfermot, Dublin 10	W0044-02
	35.44	Panda Waste Services	Rathdrinagh, Beauparc, Navan, Co. Meath	W0140/03
170402	11.16	Wilton Waste Recycling	Kiffa, Ballyjamesduff, Co. Cavan	W 06/03
170411	18.80	Wilton Waste Recycling	Kiffa, Ballyjamesduff, Co. Cavan	W 06/03

Table 3.2 Contd. Outgoing Waste Recovered / Disposed from Midlands Waste Transfer Station				
EWC Code	**Outgoing Waste Vol. (tonne)**	**Destination Name**	**Destination Address**	**License No.**
170411	0.90	IMR	Unit 2, Duleek Business Pk.,Duleek, Co. Meath	WFP/09/0301
170504	442.76	Harristown	Harristown, Navan, Co. Meath	10/0004/01
170802	51.04	Panda Waste Services	Rathdrinagh, Beauparc, Navan, Co. Meath	W0140/03
190503	492.72	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
191203	10.88	IMR	Unit 2, Duleek Business Pk.,Duleek, Co. Meath	WFP/09/0301
191203	0.96	Wilton Waste Recycling	Kiffa, Ballyjamesduff, Co. Cavan	W 06/03
191209	11313.58	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
191212	41.54	Ballynagra	Coolbeg, Kilcandra, Co. Wicklow	W0165-02
	542.08	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
	3297.74	Enrich	Larchill, Kilcock, Co. Meath	08/004/02
	16014.10	Greyhound Rec.	Crag Avenue, Clondalkin Ind Est., Dublin 22	W0205-01
	59.42	Indaver	Carranstown, Duleek, Co. Meath	W0167-02
	9221.94	Knockharley Landfill	Knockharley, Kentstown, Co. Meath	W0146-1
	23.2	Oxigen	Merywell Ind. Est., Ballymount, Dublin 22.	W0208-02
	2118.54	Thornton Waste Disposal	Killeen Rd. Ballyfermot, Dublin 10	W0044-02
200108	935.12	Enrich	Larchill, Kilcock, Co. Meath	08/004/02
200136	20.92	KMK Metals.	Cappincur Ind. Est., Daingean Rd., Tullamore, Co. Offaly	W0113-03
200139	7.38	AES Tullamore	Cappincur Ind. Est., Daingean Rd., Tullamore, Co. Offaly	W0104-02
	2.52	Irish Packaging Recycling	Ballymount Road, Walkinstown, Dublin 12	WPR 021/02
	78.06	Leinster Environmental	Clermont Business Park, Haggardstown, Dundalk, Co. Louth	WP2008/06
	7.60	ROC	Ballymacken, Ind. Est., Portlaoise, Co. Laois	WFP-LS-11-0001-
200140	548.84	Erin Recycling	Deepwater Quay, Finisklin, Sligo Harbour, Co. Sligo	WPSO-08-93
	2.44	IMR	Unit 2, Duleek Business Pk.,Duleek, Co. Meath	WFP/09/0301
	426.14	Multimetals	The Marrough, Wicklow Town, Co. Wicklow	09/0014/01
	327.66	Wilton Waste Recycling	Kiffa, Ballyjamesduff, Co. Cavan	W 06/03
200301C	103.42	Knockharley Landfill	Knockharley, Kentstown, Co. Meath	W0146-1
	12.58	Thornton Waste Disposal	Killeen Rd. Ballyfermot, Dublin 10	W0044-02
200301K	4190.96	AES Tullamore.	Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly	W0104-02
	46.76	Greyhound Waste	Crag Avenue, Clondalkin, Dublin 22.	W0205-01

	Table 3.2 Contd. Outgoing Waste Recovered / Disposed from Midlands Waste Transfer Station			
EWC Code	**Outgoing Waste Vol. (tonne)**	**Destination Name**	**Destination Address**	**License No.**
200301K	143.58	Mulleady Waste	Cloonaugh, Drumlish, Co. Longford	W0169-01
	1731.36	Thornton Waste Disposal	Killeen Rd. Ballyfermot, Dublin 10	W0044-02
200303	605.76	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
Pallets	46.20	Paddy Daly	Kilmainham, Kells, Co. Meath	
Grand Total	**63,589.78**			

4.0 Resource and Energy Consumption

4.1 Resource Consumption Summary

Resources consumed at the Midland Waste Transfer Station are recorded. During the recording period water usage on-site has not been recorded (mains, not metered) therefore, calculation of water usage is not possible at present.

Road Diesel Consumption was 743,219 Litres and Green Diesel Consumption was 87,921 Litres. The Kerosene usage for the site during 2011 was 5,592 Litres.

The total electrical consumption at the site was 489,60 kWh during the reporting period. During the same period foul water produced at the facility (leachate and wastewater) is directed into a storage tank. This tank is emptied and wastewater directed to Navan WWTP. A total of 4,230 m3 was directed to Navan WWTP.

4.2 Raw Materials Consumption & Waste Energy

The site has initiated an internal waste awareness campaign. AES have proactively installed recycling bins at every site and dedicated desk trays to collect office paper for recycling to improve the efficiency of the use of raw materials in processes and the reduction in waste generated on-site.

5.0 Environmental objectives and targets

5.1 Progress against Targets for 2011

Table 5.1 Progress against Objectives & Targets for 2011

Ref.	Objective	Target	Progress
1	Maximise Recovery of Recyclables	Household glass bin being rolled out Feb 2011	Achieved
		Household brown bin being rolled out July 2011	Work in progress, new target for 2012
2	Diversion of biodegradable waste from landfill	Household brown bin being rolled out July 2011	Work in progress, new target for 2012
		The quantity of BMW sent to Landfill will be calculated on a quarterly basis to ensure that Diversion Targets are met.	Ongoing
3	Environmental Monitoring	As per Waste Licence: Should any limits be exceeded, corrective actions to be implemented.	Ongoing
4	Efficiency of Fuel Consumption	Streamline Routes. Computer programme was acquired for AES Group to manage collection route to ensure maximum efficiency of labour and raw materials	Streamlining is reviewed continuously as new customers are added and routes change
		Drivers to complete EcoDrive Training	Ongoing
		Continued use of Dipetane Fuel Additive to improve fuel economy, reduce emissions, extend oil life and reduce engine wear.	Ongoing
5	Upkeep of Environmental Management System	Ongoing review of precedures, objectives & targets, records, training and aspects register.	Ongoing
6	Vehicle Maintenance Programme to be reviewed	Vehicle Maintenance Contractor to be hired for AES Group to provide a more reliable and traceable service	This has been postponed indefinitely

5.2 Schedule of Objectives and Targets for 2012

Table 5.2 Proposed Objectives & Targets for 2012

Ref.	Objective	Target	Timescale	Respons.	Status
1	Maximise Recovery of Recyclables	Roll out Household Brown Bin in 2012	Aug-12	MD	Ongoing.
2	Diversion of biodegradable waste from landfill	Roll out Household Brown Bin in 2012	Aug-12	MD	Ongoing
		The quantity of BMW sent to Landfill will be calculated on a quarterly basis to ensure that Diversion Targets are met.	Dec-12	MD	Ongoing
3	Environmental Monitoring	As per Waste Licence: Should any limits be exceeded, corrective actions to be implemented.	Dec-12	MD/IH/CG	Ongoing
4	Efficiency of Fuel Consumption	Streamline Routes. Computer programme to manage colle ction route to ensure maximum efficiency of labour and raw materials	Dec-12	Logistics Manager	Streamlining is ongoing as new customers/routes are added and will be reviewed continuously.
		Drivers to complete EcoDrive Training	Dec-12	IH	Ongoing
		Continued use of Dipetane Fuel Additive to improve fuel economy, reduce emissions, extend oil life and reduce engine wear.	Dec-12	IH	Ongoing
		Trial new fuel saving device called Eco-Trak which records fuel usage, journey time, MPG, idling time, odometer details, average load and carbon (t) usage	Jun-12	IH	Trials commenced in March 2012 - Preliminary results indicate a projected saving of c. 20000l per month
		Investigate the feasibility of locating a truck parking premises in the Dublin region to minimise unnecessary fuel usage	May-12	MD/IH	Premises located in Feb 2012, Trucks that service the Dublin Market have been parked there. Indicative fuel saving suggests >25000l / month saved
5	Upkeep of Environmental Management System	Ongoing review of precedures, objectives & targets, records, training and aspects register.	Dec-12	Enviro Team	Ongoing

A report on the progress against the proposed Objectives and Targets for 2012 will be presented in the AER in 2012.

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 License, W0131-02. 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;

- Noise Annually
- Dust Deposition Three times per year
- Storm Water Weekly & Quarterly
- Emissions to Sewer Quarterly
- Bioaerosol Monitoring Annually
- Groundwater Bi-annually

Sections 6.0 present a summary of the Environmental Management Programme. These sections review the reports on the previous year (2010) and present proposals for the current year (2011).

6.1 Noise Monitoring Report Summary

In compliance with the requirements of the Waste License, W0131-02, noise monitoring at the Midlands Waste Transfer Station was undertaken. Monitoring was carried out on the 29th April 2011 (Report Ref. ECS3930).

Noise levels were monitored at 5 monitoring locations, four boundary locations and one noise sensitive location (NSL). The noise monitoring locations are presented in Table 6.1 and monitoring maps attached in Appendix 1.

Table 6.1 Noise Monitoring Locations

Map Reference No.	Location Type	Location
N1	Boundary	North East corner of site, directly beside the dust gauge.
N2	Boundary	North West corner of site, directly beside the dust gauge.
N3	Boundary	South West corner of site,.
N4	Boundary	South East corner of site.
N5	Noise Sensitive Location	North East of site (GAA grounds)
N6	Noise Sensitive Location	South of Site (Housing Est.)

Table 6.2 Noise Monitoring Results						
Noise Results 29th April 2011						
Location	Duration (mins)	Start Time	LAeq dB (A)	LA10 dB (A)	LA90 dB (A)	LAFmax dB (A)
N1	30	9:24	53	53	47	79
N2	30	10:00	53	55	48	69
N3	30	10:34	49	50	41	83
N4	30	11:07	54	57	41	72
N5 (NSL)	30	12:01	49	51	42	72
N6 (NSL)	30	14:36	47	50	40	69

The day-time site boundary LA_{eq} levels ranged between 49 dB(A) at N3 to 54dB(A) at N4. All readings were within the respective Waste License limit for day-time noise (55 dB(A)).

The day-time LA_{eq} levels at the NSL's were 49 dB(A) at NSL-5 and 47dB(A) at NSL-6 which are within the respective Waste License limit for day-time noise (55 dB(A)).

Tonal noise was not detected at any noise sensitive or boundary location.

The AES facility at Proudstown, Navan, Co. Meath was not causing any nuisance noise to the receiving environs on the date and time the noise monitoring assessment took place.

6.2 Ambient monitoring Report Summary

In compliance with the requirements of the Waste License, W0131-02, dust monitoring at the Midlands Waste transfer Station was undertaken. Monitoring was carried out three times during the reporting period.

There are three dust monitoring locations on site, detailed in Table 6.3 and attached in Appendix 1 (map of monitoring locations).

Table 6.3 Dust Monitoring Locations		
Sample Name	**Grid Co-ordinates**	**Location**
D1	286877E, 269773N	*Back of site (Southeast)*
D2	286777E, 269892N	*Front of Site, near workshop (Adjacent to road) (Northwest)*
D3	286814E, 269889N	*Front of Site, at weigh-bridge (Adjacent to road) (North)*
D4	286882E, 269871N	*Located in Car Park (Northeast)*

Four dust sample jars were installed for a 31 day period; 31st Jan – 3rd Mar(Round 1), for a 32 day period 9th May – 10th Jun (Round 2) and finally for a 28 day period 19th Aug – 16th Sept (Round 3). The results for the monitoring are presented in Table 6.4 below.

Table 6.4 Dust Monitoring Results (mg/m^2/day)				
Report Ref.		**ECS3821**	**ECS3930**	**ECS4028**
		Round 1	**Round 2**	**Round 3**
Monitoring Location	**Depositional Dust Limit**	**Deposition Rate 31st Jan-3rd Mar**	**Deposition Rate 9th May-10th Jun**	**Deposition Rate 19th Aug - 16th Sept**
D1	350	100	151	68
D2	350	**1,010**	**710**	**602**
D3	350	**389**	**1,565**	**1,094**
D4	350	61	264	111

Note 1: Results highlighted in red bold represent exceedance of license limits.

As can be seen in Table 6.4, exceedences were noted at locations D2 and D3 for each depositional dust monitoring event.

D2 – This sample jar is exposed from passing traffic entering/exiting the Kilsaran quarry. The results of directional dust monitoring confirm that the highest results were received in the north (towards quarry) facing dust jar. It is also worth noting that this monitoring location is situated in the middle of a mature, dense, evergreen hedgerow. Therefore the sample jar is subject to dust from these trees and associated insects and wildlife.

D3 – These exceedences were attributed to passing traffic on the access road to the AES and Kilsaran Quarry sites. The results of directional dust monitoring confirm that the highest results were received in the North and West (towards quarry traffic) facing dust jar.

The results of depositional dust monitoring at locations D1 and D4 were within the limit (350 mg/m^3/day).

6.3 Surface-water / Storm-water monitoring report summary.

In accordance with the requirements of Waste Licence, W0131- 02, the facility is required to conduct monitoring of Storm Water and Emissions to Sewer from the facility on a quarterly basis.

Emission limits for trade effluent and storm water are not specified in the Waste Licence. It should also be noted that this effluent is sent by tanker to the local authority WWTP.

Table 6.5 Storm Water Monitoring & Emissions to Sewer Monitoring Locations.	
Monitoring Location	Description
GWE-2 (Storm Water)	NW corner of site
GWE-3 (Storm Water)	East of site
Emissions to Sewer	Trade effluent storage tank beside fuel tank.

A map detailing the monitoring locations is attached in Appendix 1.

The results of monitoring emissions to sewer are presented in Table 6.6, while the results for storm water monitoring is presented in Table 6.7.

Table 6.6 Emissions to Sewer Monitoring Results.				
Report Ref.	**ECS3821**	**ECS3930**	**ECS4028**	**ECS4029**
Parameter	**Sewer Sample Quarter 1**	**Sewer Sample Quarter 2**	**Sewer Sample Quarter 3**	**Sewer Sample Quarter 4**
pH (pH units)	6.3	6.4	5.0	4.6
TOC (mg/l)	620	120	1377	3085
BOD (mg/l)	763	165	2900	6325
COD (mg/l)	2070	935	4680	9775
TSS (mg/l)	302	385	502	840
Sulphate (mg/l)	310.52	66.03	318.46	406.35
Copper (mg/l)*	52	64	10	216
Zinc (mg/l)	375	570	839	2967
OFG (mg/l)	64	46	22	78
**DRO (mg/l)	3994	290	15770	10130
**Mineral Oil (mg/l)	<10	<10	6310	<10
MBAS (mg/l)	0.14	0.15	0.51	0.21

* The concentration of mineral oil was not determinable due to sample matrix interference.

** Sub-Contracted Test

Table 6.7 Storm-Water Monitoring Results GWE-2				
Report Ref.	**ECS3821**	**ECS3930**	**ECS4028**	**ECS4029**
Parameter	**Quarter 1**	**Quarter 2**	**Quarter 3**	**Quarter 4**
pH (pH units)	7.2	7.56	6.92	7.21
Conductivity (µs/cm)	58	156.1	42.8	28.4
BOD (mg/l)	<2	10	<2	<2
COD (mg/l)	28	28	21	16
TSS (mg/l)	<5	30	<5	5
Total N (mg/l)	1.9	2.2	<1	<1
Ammonia (mg/l)	1.24	0.89	0.46	0.36
Storm-Water Monitoring Results GWE-3				
Report Ref.	**ECS3821**	**ECS3930**	**ECS4028**	**ECS4029**
Parameter	**Quarter 1**	**Quarter 2**	**Quarter 3**	**Quarter 4**
pH (pH units)	Note 1	7.44	6.88	8.28
Conductivity (µs/cm)		141.5	45.2	72.5
BOD (mg/l)		7	<2	<2
COD (mg/l)		23	18	11
TSS (mg/l)		8	<5	<5
Total N (mg/l)		2.2	<1	<1
Ammonia (mg/l)		0.56	<0.02	0.57

Note 1 - Results for GWE-3 are not available as no sample was collected due to minimal rain fall during monitoring

6.4 Bio-aerosol Monitoring results Summary

Bio-aerosol monitoring was carried out at the facility as per the conditions of the Waste Licence, W0131-02 on the 22nd August 2011.

The bio-aerosol sampling was undertaken at three locations in the vicinity of the facility, detailed in Table 6.8. These locations were selected following a review of the prescribed sampling locations in the UK Composting Association's – *Standardises Protocol for the Sampling and Enumeration of Airborne Microorganisms at Composting Facilities, 1999.*

TABLE 6.8: Location of Bioaerosol Sampling Positions			
Sampling Station	**Identity**	Boundary Location	GPS Ref. Note 1
Location 1	SR - A/B	Sensitive Receptor Housing estate south east of site.	IN87003 69613
Location 2	UW - A/B	Upwind boundary 30 m north west of the AES Boundary site	In 86476 69911
Location 3	DW - A/B	Downwind location (South of GAA Club House to NE of Site)	IN 87196 69976

Note 1 – Irish Grid is the unit of reference

The summary results of bio-aerosol monitoring are presented in Table 6.9 below & Table 6.10 overleaf

Table 6.9 Results of Total Bacterial Monitoring (Report Ref ECS3930)			
Location	**Time**	**Total No. of Colonies**	**Concentration cfu/m^3**
UW-A	10:05 – 10:30	45	63.6
UW-B	12:20 – 12:55	90	127.2
Average		***67.5***	***95.4***
SR-A	11:25 – 11:50	40	56.5
SR-B	14:40 – 15:05	32	45.2
Average		***36***	***50.9***
DW-A	10:40 – 11:05	19	26.9
DW-B	14:00 – 14:25	9	12.7
Average		***14***	***19.8***

Table 6.10 Results of Aspergillus Monitoring (Report Ref ECS3930)			
Sampling Location	**Time**	**Total No. of Colonies**	**Concentration cfu/m^3**
UW-A	10:05 – 10:30	0	0
UW-B	12:20 – 12:55	0	0
Average		***0***	***0***
SR-A	11:25 – 11:50	0	0
SR-B	14:40 – 15:05	0	0
Average		***0***	***0***
DW-A	10:40 – 11:05	0	0
DW-B	14:00 – 14:25	0	0
Average		***0***	***0***

Bioaerosols were not detected in blank samples; Blank 1 (Bag) and Blank 2 (DWA). This would suggest that the results of the monitoring event were carried out in accordance with the ANUA SOP for Bioaerosol monitoring (TS-A-12) and the results are therefore deemed representative, with no cross contamination reported.

Results of bioaerosols indicated that Total Bacteria levels were present at the upwind of site (95.4 cfu/m^3), downwind (19.8 cfu/m^3) of site and at the Sensitive Receptor (50.9 cfu/m^3).

Aspergillus fumigatus was not detected at the upwind, downwind or sensitive receptor locations.

As the upwind location (19.8 cfu/m^3) displays higher Bi-aerosols than the downwind location (19.8 cfu/m^3) and sensitive receptor (50.9 cfu/m^3), it is reasonable to suggest that activity at the AES facility is not causing elevated levels of bioaerosols at Sensitive Receptors.

6.5 Ground Water Monitoring results Summary

In accordance with the requirements of the company's Waste Licence, W0131- 02, AES are required to conduct monitoring of the Groundwater underlying the Navan facility on a biannual basis.

As there is no access to groundwater's on the AES site, a grab sample was extracted from a well via a tap (Kilsaran well) located in the neighbouring industrial facility. This monitoring point is agreed with the Agency and represents the quality of the groundwater's underlying the AES Navan facility.

TABLE 6.11: LOCATION OF GROUND WATER SAMPLING WELL	
Sample Point	**Location**
GW-1 (Groundwater)	(Kilsaran well) Tap on left hand wall of workshop in Kilsaran facility

Groundwater monitoring was undertaken in January and November 2011 and the results are presented in Table 6.12.

Table 6.12 Groundwater Monitoring Results (GW-1)			
Parameter	**Round 1** **Report Ref. ECS3821**	**Round 2** **Report Ref. ECS4028**	**Guideline Threshold Values** [Note1]
pH (pH units)	7.6	7.6	6.5-9.5
Conductivity @ 25°C (µS/cm)	874	853	800-1875
COD (mg/l)	<10	13	-
Chloride (mg/l)	28.74	28.92	24-187.5
Fluoride (mg/l)	<0.10	<0.1	1.0 [Note 2]
Ammonia-N (mg/l)	<0.02	<0.02	0.05-0.136
Total Nitrogen (mg/l)	<1.00	<1	-
Nitrate as N(mg/l)	<0.2	0.08	8.47
Total Coliforms (MPN/100ml)	11	0	-
Faecal Coliforms (MPN/100ml)	1	0	-
VOC's USEPA 524.2 (µg/l)	<10	<10	-

Note 1 : GTV = Groundwater Threshold Values refers to "*European Communities Environmental Objectives (Groundwater) Regulations, 2010 (S.I. No. 9 of 2010)*". "Threshold Values" have been established for pollutants that are causing a risk to groundwater bodies. Exceedance of a relevant threshold value at a representative monitoring point triggers further investigation to confirm whether the criteria for poor groundwater chemical status are being met.

Note 2: Guide Values refers to EPA Guideline Values for the Protection of Groundwater in Ireland, IGV = Interim Guideline Value. Note these standards are presented for guideline purposes only, therefore, due care should be exercised in cross-referencing these standards with the groundwater results obtained.

The results of the bi-annual groundwater monitoring events show that all parameters tested were within their respective IGV/GTV's. There was no volatile organic compounds (USEPA 524.2) detected.

6.6 Tank and Pipeline Testing & Inspection Reports

Condition 6.7 of the Waste License states;

''The integrity and water tightness of all underground pipes and tanks and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee. The testing shall be carried out by the licensee at least once every three years thereafter and reported to the Agency on each occasion. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee''

Integrity Testing of the following bunds was carried out in February/April 2009 and found to be compliant.

1. Diesel Tank Bund
2. Diesel Filling Station Bund
3. Detergent Bund
4. Hydraulic Oil Storage Tank Bund – Garage Area
5. Oil Storage Tank Bund (Green) – Garage Area
6. Oil Storage Tank Bund (Blue) – Garage Area

The bund integrity test is due to be carried out in the 2012 reporting period.

6.7 Environmental Management Programme

The Environmental Management Programme (EMP) form part of the objectives and Targets for the facility, presented in Tables 5.1 & 5.2. Specifically it is proposed for the coming year:

- Ti maximise the recovery of recyclables, through the roll-out of the household brown bin during 2012.
- The quantity of BMW sent to Landfill will be calculated on a quarterly basis to ensure that Diversion Targets are met.
- Continued environmental monitoring as per Waste licence W0131-02.
- To maintain and upkeep the EMS.

7.0 SITE DEVELOPMENT & INFRASTRUCTURAL WORK

7.1 Current Infrastructure in-place

The facility is currently licensed to accept a maximum of 95,000 tonnes of waste per annum (38,000 tonnes of Household waste, 33,250 tonnes of Commercial and Industrial waste and 23,750 tonnes of Construction and Demolition waste).

In compliance with Condition 3.19.3 of the Waste Licence, W0131-02 the facility has calculated the duty capacity and the standby capacity of the pant. This information is summarised in Table 7.1. The current waste handling and processing equipment is capable of handling 1752 tonnes/day and 2568 tonnes/day respectively.

Table 7.1 Summary list of plant machinery & duty capacity + standby capacity of plant

Equipment	Standby	Max. Standby Capacity
X2 Industrial compactors	1 x standby compactor (can be sed to compact newsprint and/or non rec. waste)	22 tonnes per hour each **528 tonnes/ day**
X2 Tromelling line belt	Use of compactors on-site	20 tonnes per hour each **480 tonnes/ day**
X1 Baler	Use of compactors on-site	10 tonnes per hour **120 tonnes/ day**
X1 Bobcat	There is 1 Volvo Bobcat on-site	20 tonnes per hour **240 tonnes/ day**
X3 Hitachi & 1 grab	Grab lifts & Bobcats, Samsung onsite can be used	20 tonnes per hour each **720 tonnes/ day**
X1 Forklift	Bobcats on-site can be utilised	20 tonnes per hour **240 tonnes/ day**
Samsung grab	Bobcats, Hitachi/ Grabs can be utilised	30 tonnes per hour **360 tonnes/ day**
Conveyor Belt	Floor manual sorting areas & bobcats	10 tonnes per hour **120 tonnes/ day**
Volvo & Cat loading shovel	Grabs on-site can be utilised	80 tonnes per day each **24 tonnes/ day**
X2 Shredders	Compactors on-site can be utilised	50 tonnes per hour each **1200 tonnes/ day**
Blender Unit for vertical composting	Use of ejector trailers	10 tonnes per hour **120 tonnes/ day**
Vertical Composting unit	Use of compactor & ejector trailer on-site	80 tonnes/ week (4 chambers each handling 20 tonnes for a period of 7 days)

7.2 Site Development Works during 2011

Midland Waste was not in a position to increase the area of hard-standing during 2011 as planned.

7.3 Proposed Development Works for 2012

There are no proposed development works scheduled for 2012.

8.0 ENVIRONMENTAL LIABILITIES (FINANCIAL PROVISIONS)

The environmental liabilities are those considered to be restricted to the confines of the facility, therefore, any costs incurred in addressing same will be limited to removal and safe disposal of waste remaining on-site following an emergency event (e.g. fire or spillage) 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 on site at any given time.

AES and Bord na Móna (parent company) 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 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.

9.0 INCIDENTS AND COMPLAINTS

9.1 Complaints Summary

All environmental incidents and complaints are recorded at the facility. During the 2011 reporting period, no complaints were received.

9.2 Reported Incidents Summary

All environmental incidents are recorded at the facility. Three incidents were recorded by the site during the 2011 reporting period, which were reported to the Agency.

1. Dust emissions recorded from the facility during the period 31st Jan – 3rd March 2011 at locations D2 & D3. These were reported to the Agency.

2. Dust emissions recorded from the facility during the period 9th May – 10th June 2011 at locations D2 & D3. These were reported to the Agency.

3. Dust emissions recorded from the facility during the period 19th Aug – 16th Sept 2011 at locations D2 & D3. These were reported to the Agency.

As the exceedences were primarily attributed to contamination of the dust jars and from the passing of traffic on the adjacent country road, no corrective action was deemed necessary.

9.3 Accident Prevention and Emergency Response

Condition 9.1 of the Waste Licence states:

''The licensee shall….. 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… ensure that a documented Emergency Response Procedure for the facility, 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

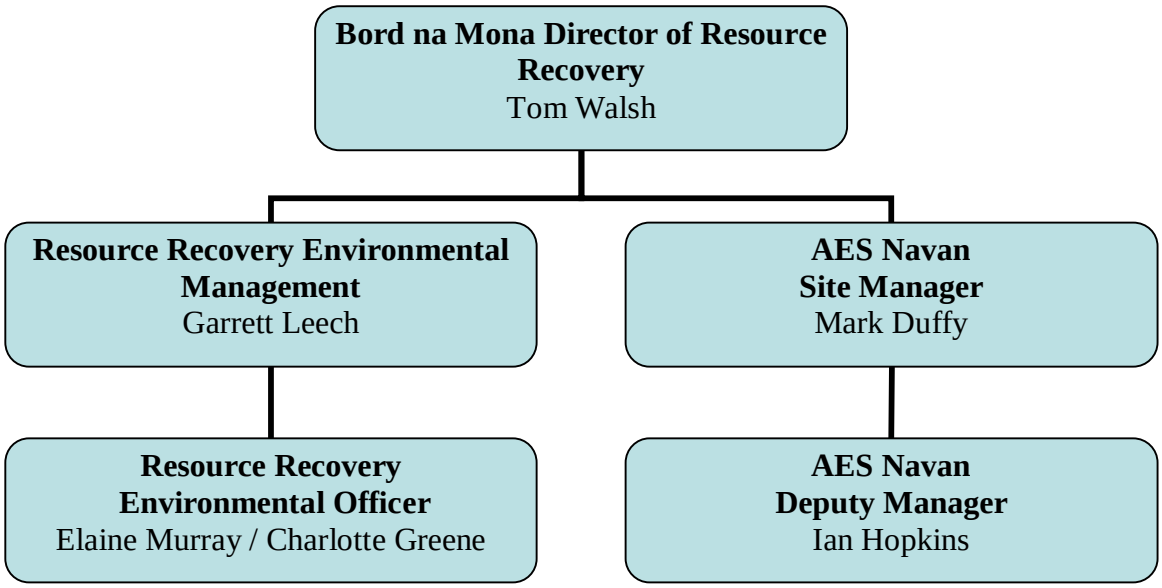
- EP-ERP-02_Spill Clean Up Procedure.doc
- EP-ERP-03_Fire Explosion Procedure.doc
- EP-ERP-04_Malicious Damage Procedure.doc
- EP-ERP-05_Unforeseen Emergencies & Fugitive Emissions.doc

These documents are attached in Appendix 2.

10.0 FACILITY MANAGEMENT

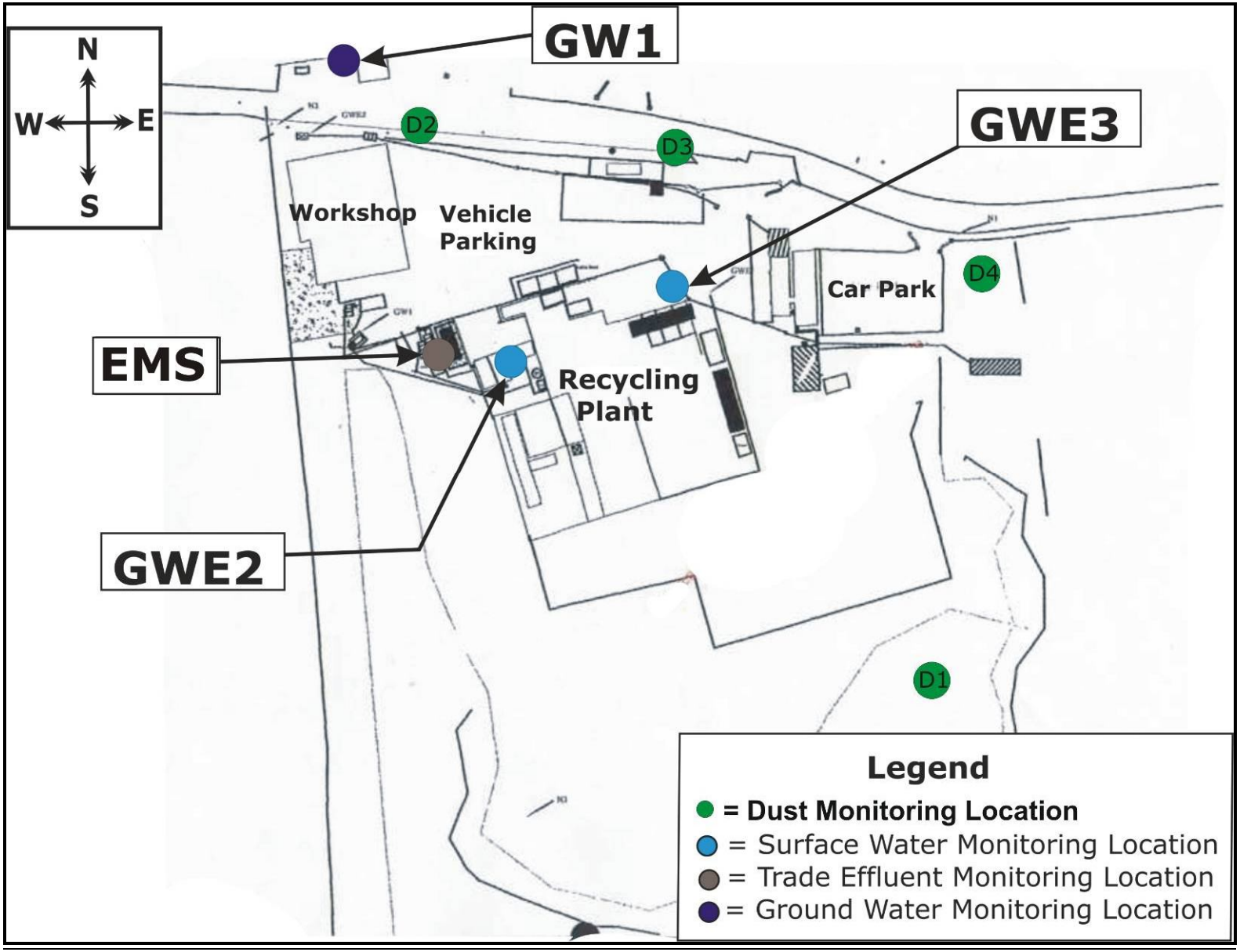
10.1 Managing Staffing Structure

The management and staffing structure for the facility is presented in Figure 10.1



APPENDIX 1

Map of Monitoring Locations


N
W
E
S
GW1
GWE3
D2
D3
Workshop
Vehicle
Parking
Car Park
D4
EMS
Recycling
Plant
GWE2
D1
Legend
= Dust Monitoring Location
= Surface Water Monitoring Location
= Trade Effluent Monitoring Location
= Ground Water Monitoring Location

APPENDIX 2

Accident Prevention & Emergency Response

Emergency Response Plan		Document: EP 5.0-ERP-01
Document Approved by: Site Manager	AES Advanced Environmental Solutions Ireland **AES Navan** Emergency Response Plan	Revision: 0 Issue Date: 01/09/10 Page: Page 1 of 3
Title General Emergency Preparedness & Response		

Purpose: To identify the potential for, and to respond to, accidents and emergency situations, and to prevent and mitigate the environmental impacts that may be associated with them.

Scope: The Scope of this procedure is the application of the Environmental Emergency Plan

References: EP 5.0 Emergency Preparedness and Response
EPL 5.1 Emergency Contact List
EP 6.0 Environmental Incident Investigation and Reporting
EP 7.0 Non Conformance Procedure
EP 8.0 Corrective and Preventive Action Procedure
Emergency Plan
Safety Statement
Material Safety Data Sheets

Incident Contact List:

Emergency Contact List for AES Navan			
Service / Agency	**Address**	**Telephone Numbers**	**Fax / e-mail**
EPA Regional Inspectorate	McCumiskey House, Richview, Clonskeagh Road, Dublin 14.	01-268 0100 1890 335599	01-268 0199 info@epa.ie
Meath County Council	County Hall, Navan, Co. Meath.	046-9097000	046-9097001 info@meathcoco.ie
Eastern Regional Fisheries Board	15a Main Street, Blackrock, Co. Dublin	01-2787022	01-2787025 info@erfb.ie

Emergency Response Plan		Document: EP 05-ERP-02
Document Approved by: Site Manager	AES Navan Emergency Response Plan	Revision: 0 Issue Date: 01/09/10 Page: Page 1 of 4

Title Spill Clean up procedure

Purpose: This procedure details the steps to be taken when dealing with a spillage of a hazardous substance on site. It is required in order to:

- Protect Employees
- Protect the Environment
- Prevent Fugitive Emissions

Scope: This procedure applies to AES Navan.

Procedure:

Note:

This procedure should be followed for all small, large and massive spills, which may occur.

Definitions:

Small Spill: Less than 5 litres

Large Spill: Greater than 5 litres and less than 250 litres.

Massive Spill: Greater than 250 litres

1. Hazardous materials shall be handled (loaded, unloaded and moved) by a competent person using the correct equipment and appropriate protective clothing. Appropriate precautions should be taken at all times to minimise the risk of accidental spillage.
2. In the event of a spillage occurring, the Site Manager or the Deputy Site Manager shall initially investigate the following issues:
   - How long it has been since the incident occurred.
   - Consult the relevant data sheets (Material Safety Data Sheets or otherwise) for the method of spill containment and fire control of the affected material.
   - Contact the relevant emergency response number (local fire service, police, hospital and Environmental Protection Agency telephone numbers which are detailed on the Emergency Contact List.

Emergency Response Plan		Document: EP 5.0-ERP-03
Document Approved by: Site Manager	AES ADVANCED ENVIRONMENTAL SOLUTIONS IRELAND **AES Navan** Emergency Response Plan	Revision: 0 Issue Date: 01/09/10 Page: Page 1 of 2

Title Fire / Explosion Procedure

Purpose: A procedure to deal with fire/explosion emergencies is required for the following reasons:

- To protect Employees.
- To protect the Environment.
- To prevent fugitive emissions.

Scope: This procedure applies to AES Navan.

Procedure:

1. Employees shall only attempt to fight a fire if safe to do so. If an employee feels that they cannot tackle a fire safely and effectively, **EVACUATION OF ALL PERSONNEL IS THE PRIMARY PRIORITY.**

2. The Site Manager or Deputy Site Manager shall evacuate the area in a calm, efficient manner. All staff and contractors shall be instructed to walk briskly to the designated evacuation point.

3. In the event of a fire/explosion occurring, the Site Manager shall complete a roll call to account for all employees and contractors that may be present on-site.

4. The Site Manager shall identify the location of the fire/explosion risk through dialogue with the individual who discovered the fire and shall take one of the following actions:

5. Determine whether the fire can be **SAFELY** isolated utilising the available fire fighting equipment.

6. If the fire is not controlled with the fire fighting equipment available, the local fire brigade shall be notified immediately. Local fire, police and hospital telephone numbers are detailed on the Emergency Contact List. These details are displayed within the Main Site Office and the Weighbridge Office. The Site Manager or any other designated person from the Emergency Response Team should;

    a. Dial 112 for emergency services
    b. Request emergency service
    c. Give details of type of emergency and phone number in case call is inadvertently disconnected
    d. Provide information requested by call recipient

Emergency Response Plan		Document: EP 5.0-ERP-04
Document Approved by: Site Manager	AES ADVANCED ENVIRONMENTAL SOLUTIONS IRELAND **AES Navan** Emergency Response Plan	Revision: 0 Issue Date: 01/09/10 Page: Page 1 of 1

Title Malicious Damage Procedure

Purpose: This procedure is required in order to monitor and prevent malicious damage.

Scope: This procedure applies to AES Navan.

Procedure:

1. Where any occurrence of malicious damage is noted or where persons are observed causing malicious damage, the Site Manager shall be informed as soon as is practical.
2. Where malicious damage results in a significant environmental impact, or a potentially significant environmental impact, the Site Manager shall be advised who then undertakes to minimise and repair the damage caused.
3. Persons observed causing malicious damage shall be subjected to internal disciplinary action. The Site Manager, will report external persons to the Gardaí.
4. Following an emergency, the Site Manager, or other designated responsible person shall record details of the incident as per EP 6.0 Incident Investigation and Reporting.

Emergency Response Plan		Document: EP 5.0-ERP-05
Document Approved by: Site Manager	AES ADVANCED ENVIRONMENTAL SOLUTIONS IRELAND **AES Navan** Emergency response Plan	Revision: 0 Issue Date: 01/09/10 Page: Page 1 of 2

Title Unforeseen Emergencies and Fugitive emissions

Purpose: The purpose of this procedure is to outline the procedure to be adhered to in the event of an unforeseen emergency.

Scope: This procedure applies to the AES Navan.

Procedure:

1. Following the occurrence of an incident requiring emergency action, the observant shall contact the Site Manager or in his absence most senior representative of management on-site.

2. Access situation and severity. Request emergency services where necessary. If calling for the emergency services, local Fire, police and hospital telephone numbers are detailed on the Emergency Contact List displayed within the Main Site Office and the Weighbridge Office.

    a. Dial 112 for emergency services
    b. Request emergency service
    c. Give details of type of emergency and phone number in case call is inadvertently disconnected
    d. Provide information requested by call recipient
    e. Determine estimated time of arrival to site and communicate this information to the relevant member of ERT.
    f. Hang up only when told to do so by call recipient
    g. Fill out details required by emergency contact log as soon as it safe to do so.

3. Should the incident be determined to be capable of being addressed in-house under the guidance of the most senior representative of management on-site, the Environmental Emergency Response Team shall be mobilised paying due regard to the appropriate emergency response procedure (EP 05-ERP-1-5).

4. In the event the situation involves a Man Down, do not move the casualty until First Aid or Emergency Services give instruction.

5. Once ERT arrive at the incident, all contractors and visitors must be directed to the assembly point.

APPENDIX 3

Summary of Emissions and Waste Management (PRTR)

| PRTR# : W0131 | Facility Name : Midland Waste Disposal Company Limited | Filename : W0131_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	Midland Waste Disposal Company Limited
Facility Name	Midland Waste Disposal Company Limited
PRTR Identification Number	W0131
Licence Number	W0131-02

Waste or IPPC Classes of Activity

No.	class_name
4.4	Recycling or reclamation of other inorganic materials.
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.
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.
4.11	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
4.12	Exchange of waste for 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.

Address 1	Clonmagaddan
Address 2	Proudstown
Address 3	Navan
Address 4	Co. Meath
	Meath
Country	Ireland
Coordinates of Location	-6.68714 53.6705
River Basin District	IEEA
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	
AER Returns Contact Email Address	
AER Returns Contact Position	
AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	0
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General
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 ?	

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/D/E	Method Used					
Within the Country	02 03 99	No	5.24	wastes not otherwise specified	R13	M	Weighed	Offsite in Ireland	BNM Kilberry,W0196-01	Kilberry,Co. Kildare,,,,Ireland		
To Other Countries	15 01 01	No	2805.3	paper and cardboard packaging	R13	M	Weighed	Abroad	MLM,.	Adamstown Hse ,Towers business Pk,Wilmslow Rd Didsbury Manchester,,,United Kingdom		
Within the Country	15 01 01	No	113.42	paper and cardboard packaging	R13	M	Weighed	Offsite in Ireland	Irish Packaging Recycling,WPR-021/02	Ballymount Rd,,Walkinstown,Dublin 12,,,Ireland		
Within the Country	15 01 01	No	540.0	paper and cardboard packaging	R13	M	Weighed	Offsite in Ireland	Irish Packaging Recycling,WPR-021/02	Ballymount Rd,,Walkinstown,Dublin 12,,,Ireland		
Within the Country	15 01 02	No	1.66	plastic packaging	R13	M	Weighed	Offsite in Ireland	Thorton Waste Disposal,W0044-02	Kilean Rd,Ballyfermot,Dublin 10,,,Ireland		
Within the Country	15 01 02	No	26.34	plastic packaging	R13	M	Weighed	Offsite in Ireland	Leinster Environmental,Wp2006/06	Clermont Business Pk,Heggardstown Dundalk,Co. Louth,,,Ireland		
Within the Country	15 01 02	No	14.52	plastic packaging	R13	M	Weighed	Offsite in Ireland	AES Tullamore,W0104-02	Cappincur Ind Est,Daingean Rd,Tullamore Co. Offaly,,,Ireland		
Within the Country	15 01 02	No	6.7	plastic packaging	R13	M	Weighed	Offsite in Ireland	ROC,WFP-LS-0001-01	Ballymaclean Ind. Est.,Portlaoise,Co. Laois,,,Ireland		
Within the Country	15 01 02	No	203.82	plastic packaging	R13	M	Weighed	Offsite in Ireland	Irish Packaging Recycling,WPR-021/02	Ballymount Rd,,Walkinstown,Dublin 12,,,Ireland		
Within the Country	15 01 04	No	9.56	metallic packaging	R13	M	Weighed	Offsite in Ireland	IMR,WFP/09/0301	Unit 2,Duleek Bus. Pk.,Duleek Co. Meath,,,Ireland		
Within the Country	15 01 04	No	44.82	metallic packaging	R13	M	Weighed	Offsite in Ireland	Wilton Waste ,W 05/03	Kiffa,ballyarnesduff,Co. Cavan,,,Ireland		
To Other Countries	15 01 07	No	307.32	glass packaging	R13	M	Weighed	Abroad	Glassdon Recycling,.	52 Creagh Rd,Toomebridge,Co. Antrim,,,United Kingdom		
Within the Country	16 01 03	No	27.56	end-of-life tyres	R13	M	Weighed	Offsite in Ireland	Wilton Waste ,W 05/03	Kiffa,ballyarnesduff,Co. Cavan,,,Ireland		
Within the Country	16 01 03	No	6.26	end-of-life tyres	R13	M	Weighed	Offsite in Ireland	Crumb Rubber,DC/08/1135/01	Moorestown,Drumlaloin,Dundalk Co. Louth,,,Ireland		
Within the Country	16 01 03	No	11.74	end-of-life tyres	R13	M	Weighed	Offsite in Ireland	Ecological,WP2008/06	Clermont Business Park,Heggardstown,Dundalk Co. Louth,,,Ireland		
Within the Country	16 03 06	No	7.4	organic wastes other than those mentioned in 16 03 05	R13	M	Weighed	Offsite in Ireland	FSM,.	Co. Meath,,,,,Ireland		
Within the Country	16 05 05	No	4.76	gases in pressure containers other than those mentioned in 16 05 04	R13	M	Weighed	Offsite in Ireland	Erin recycling,WP-SO-08-93	Deepwater quay,Finisklin,Co. Sligo,,,Ireland		
Within the Country	16 05 05	No	2.66	gases in pressure containers other than those mentioned in 16 05 04	R13	M	Weighed	Offsite in Ireland	Commons Fuels,.	Commons Lane,Navan,Co. Meath,,,Ireland		
Within the Country	16 05 05	No	1.04	gases in pressure containers other than those mentioned in 16 05 04	R13	M	Weighed	Offsite in Ireland	Wilton Waste ,W 05/03	Kiffa,ballyarnesduff,Co. Cavan,,,Ireland		
Within the Country	16 06 01	Yes	8.38	lead batteries	R13	M	Weighed	Offsite in Ireland	Wilton Waste ,W 05/03	Kiffa,ballyarnesduff,Co. Cavan,,,Ireland		
Within the Country	16 06 01	Yes	2.56	lead batteries	R13	M	Weighed	Offsite in Ireland	IMR,WFP/09/0301	Unit 2,Duleek Bus. Pk.,Duleek Co. Meath,,,Ireland	Campine Recycling,474955451,Bars,Belgium,,,Belgium	Campine Recycling,474955451,Bars,,,Belgium

Within the Country	17 01 07	No	2366.62	mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	R13	M	Weighed	Offsite in Ireland	Drehid Waste Mgt Facility,W0201-03	Kilmagh Upper,Carbury,Co. Kildare, ,Ireland
Within the Country	17 01 07	No	1017.3	mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	R13	M	Weighed	Offsite in Ireland	Harristown,10/0004/01	Hristown,Navan,Co. Meath, ,Ireland
Within the Country	17 02 01	No	2281.0	wood	R13	M	Weighed	Offsite in Ireland	Wilton Waste ,W 05/03	Kiffa,ballyarmeaduff,Co. Cavan, ,Ireland
Within the Country	17 02 01	No	12.94	wood	R13	M	Weighed	Offsite in Ireland	Thorton Waste Disposal,W0044-02	Kileen Rd,Ballyfermot,Dublin 10, ,Ireland
Within the Country	17 02 01	No	35.44	wood	R13	M	Weighed	Offsite in Ireland	Panda Waste Recycling,W0140-03	Rathdrinagh,Beauparc,Navan Co. Meath, ,Ireland
Within the Country	17 04 02	No	11.16	aluminium	R13	M	Weighed	Offsite in Ireland	Wilton Waste ,W 05/03	Kiffa,ballyarmeaduff,Co. Cavan, ,Ireland
Within the Country	17 04 11	No	18.8	cables other than those mentioned in 17 04 10	R13	M	Weighed	Offsite in Ireland	Wilton Waste ,W 05/03	Kiffa,ballyarmeaduff,Co. Cavan, ,Ireland
Within the Country	17 04 11	No	0.9	cables other than those mentioned in 17 04 10	R13	M	Weighed	Offsite in Ireland	IMR,WFP/09/0301	Unit 2,Duleek Bus. Pk.,Duleek Co. Meath, ,Ireland
Within the Country	17 05 04	No	442.76	soil and stones other than those mentioned in 17 05 03	R13	M	Weighed	Offsite in Ireland	Harristown,10/0004/01	Hristown,Navan,Co. Meath, ,Ireland
Within the Country	17 08 02	No	51.04	gypsum-based construction materials other than those mentioned in 17 08 01	R13	M	Weighed	Offsite in Ireland	Panda Waste Recycling,W0140-03	Rathdrinagh,Beauparc,Navan Co. Meath, ,Ireland
Within the Country	19 05 03	No	492.72	off-specification compost	D1	M	Weighed	Offsite in Ireland	Drehid Waste Mgt Facility,W0201-03	Kilmagh Upper,Carbury,Co. Kildare, ,Ireland
Within the Country	19 12 03	No	10.88	non-ferrous metal	R13	M	Weighed	Offsite in Ireland	IMR,WFP/09/0301	Unit 2,Duleek Bus. Pk.,Duleek Co. Meath, ,Ireland
Within the Country	19 12 03	No	0.96	non-ferrous metal	R13	M	Weighed	Offsite in Ireland	Wilton Waste ,W 05/03	Kiffa,ballyarmeaduff,Co. Cavan, ,Ireland
Within the Country	19 12 09	No	11313.58	minerals (for example sand, stones)	R13	M	Weighed	Offsite in Ireland	Drehid Waste Mgt Facility,W0201-03	Kilmagh Upper,Carbury,Co. Kildare, ,Ireland
Within the Country	19 12 12	No	41.54	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Weighed	Offsite in Ireland	Ballynagra,W0165-02	Coolbeg,Kilcandra,Co. Wicklow, ,Ireland
Within the Country	19 12 12	No	542.06	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Weighed	Offsite in Ireland	Drehid Waste Mgt Facility,W0201-03	Kilmagh Upper,Carbury,Co. Kildare, ,Ireland
Within the Country	19 12 12	No	3297.74	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Weighed	Offsite in Ireland	Enrich,06/004/02.	Larchill,Kilcock,Co. Meath, ,Ireland
Within the Country	19 12 12	No	16014.1	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R13	M	Weighed	Offsite in Ireland	Greyhound Recycling,W0205-01	Cnig Avenue,Clondalkin,Dublin 22, ,Ireland
Within the Country	19 12 12	No	59.42	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R13	M	Weighed	Offsite in Ireland	Indaver,W0167-02	Carnaratown,Duleek,Co. Meath, ,Ireland
Within the Country	19 12 12	No	9221.94	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Weighed	Offsite in Ireland	Knockharley landfill,W0146-01	Knockharley ,Kentstown,Co. Meath, ,Ireland
Within the Country	19 12 12	No	23.2	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R13	M	Weighed	Offsite in Ireland	Celgen,W0208-02	Merrywell Ind Est.,Ballymount,Dublin 22, ,Ireland
Within the Country	19 12 12	No	2118.54	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R13	M	Weighed	Offsite in Ireland	Thorton Waste Disposal,W0044-02	Kileen Rd,Ballyfermot,Dublin 10, ,Ireland

Within the Country	20 01 08	No	935.12	biodegradable kitchen and canteen waste	R13	M	Weighed	Offsite in Ireland	Enrich,08/004/02.	Larchill,Kilcock,Co. Meath,,Ireland
Within the Country	20 01 36	No	20.92	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R13	M	Weighed	Offsite in Ireland	KMK Metals,W0113-03	Cappincur Ind Est,Daingean Rd Tullamore,Co. Offaly,,Ireland
Within the Country	20 01 39	No	7.38	plastics	R13	M	Weighed	Offsite in Ireland	AES Tullamore,W0104-02	Cappincur Ind Est,Daingean Rd,Tullamore Co. Offaly,,Ireland
Within the Country	20 01 39	No	2.52	plastics	R13	M	Weighed	Onsite of generati	Irish Packaging Recycling,WFP-021/02	Ballymount Rd.,Walkinstown,Dublin 12,,Ireland
Within the Country	20 01 39	No	76.06	plastics	R13	M	Weighed	Offsite in Ireland	Leinster Environmental,Wp:2008/06	Clermont Business Pk,Heggardstown Dundalk,Co. Louth,,Ireland
Within the Country	20 01 39	No	7.6	plastics	R13	M	Weighed	Onsite of generati	ROC,WFP-LS-0001-01	Ballymacken Ind. Est.,Portlaoise,Co. Laois,,Ireland
Within the Country	20 01 40	No	548.84	metals	R13	M	Weighed	Offsite in Ireland	Erin recycling,WP-SO-08-93	Deepwater quay,Finisklin,Co. Sligo,,Ireland
Within the Country	20 01 40	No	2.44	metals	R13	M	Weighed	Offsite in Ireland	IMR,.	,,,,Ireland
Within the Country	20 01 40	No	426.14	metals	R13	M	Weighed	Offsite in Ireland	Multimetals,09-0014/01	The Marrough,Wicklow Town ,Co. Wicklow,,Ireland
Within the Country	20 01 40	No	327.66	metals	R13	M	Weighed	Offsite in Ireland	Wilton Waste ,W 05/03	Kilfa,ballyjamesduff,Co. Cavan,,Ireland
Within the Country	20 03 01	No	103.42	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Knockharley landfill,W0146-01	Knockharley ,Kentstown,Co. Meath,,Ireland
Within the Country	20 03 01	No	12.58	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Thorton Waste Disposal,W0044-02	Kilcen Rd,Ballyfermot,Dublin 10,,Ireland
Within the Country	20 03 01	No	4190.96	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	AES Tullamore,W0104-02	Cappincur Ind Est,Daingean Rd,Tullamore Co. Offaly,,Ireland
Within the Country	20 03 01	No	46.76	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Greyhound Recycling,W0205-01	Craig Avenue,Clondalkin,Dublin 22,,Ireland
Within the Country	20 03 01	No	143.58	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Mullaedy Waste,W0159-01	Clonagh,Drumlish,Co. Longford,,Ireland
Within the Country	20 03 01	No	1731.36	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Thorton Waste Disposal,W0044-02	Kilcen Rd,Ballyfermot,Dublin 10,,Ireland
Within the Country	20 03 03	No	605.76	street-cleaning residues	R13	M	Weighed	Offsite in Ireland	Drehid Waste Mgt Facility,W0201-03	Kilteagh Upper,Carbury,Co. Kildare,,Ireland
Within the Country	17 02 01	No	46.2	wood	R13	M	Weighed	Offsite in Ireland	Paddy Daly,.	Kilmainham,Kells,Co. Meath,,Ireland