ANNUAL ENVIRONMENTAL REPORT

AES NAVAN WASTE TRANSFER STATION

JANUARY 2010
THROUGH
DECEMBER 2010

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: Bord na Mona

BORD NA MÓNA

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 2010.

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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.

Bord na Mona Technical Services was retained 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 Jan. 2010 up to 31st December 2010.

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.

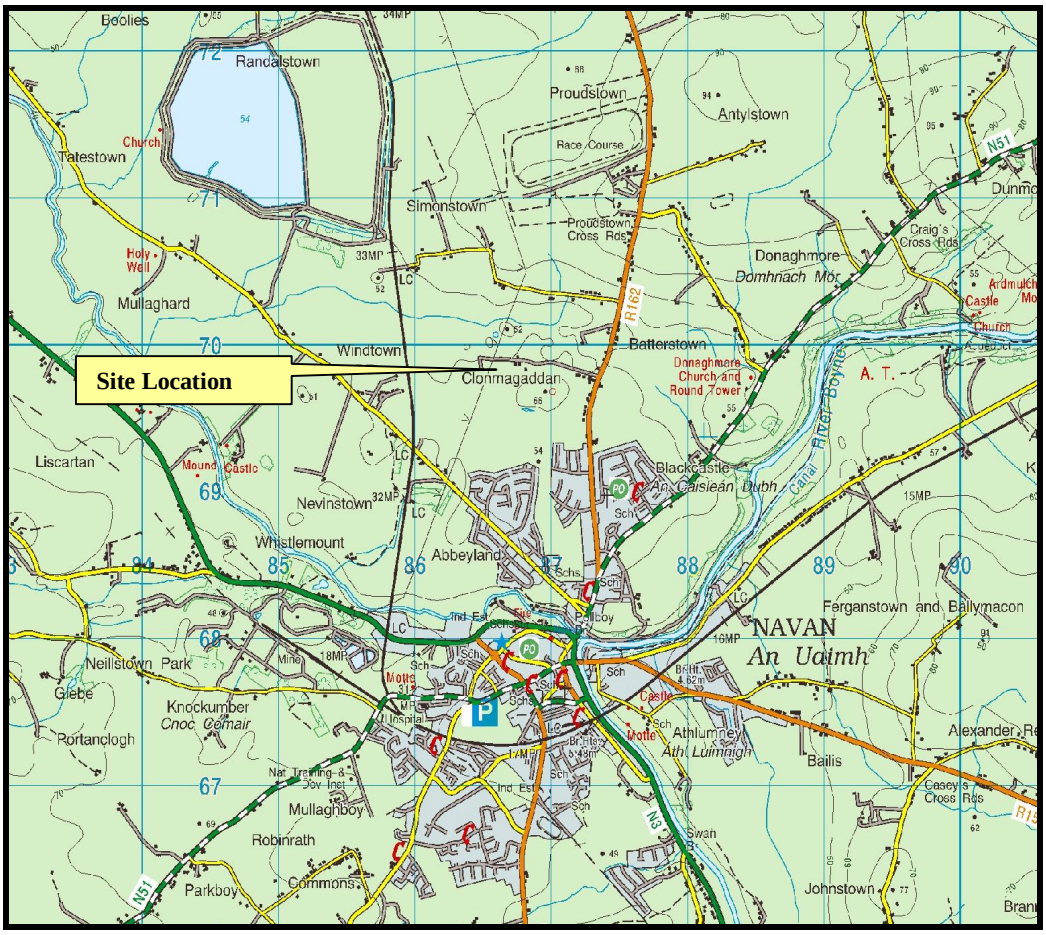


Figure 1.1 Site location map of the AES facility, Navan, Co. Meath.

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 Sunday 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 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, 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 Recycling Plant 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 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 (m^3) of foul water removed from site during the reporting period.

Month	2003	2004	2005	2006	2007	2008	2009	2010
Jan	104	76	120	88	352	216	208	368
Feb	72	62	120	128	312	120	232	200
Mar	48	38	120	232	176	128	112	304
Apr	38	40	80	144	64	80	136	208
May	72	22	112	232	88	72	168	96
Jun	64	48	56	120	208	152	104	160
Jul	80	32	80	36	304	272	232	585
Aug	34	168	40	80	168	196	304	268
Sep	26	40	120	200	88	160	184	1,351
Oct	32	120	176	232	80	240	232	415
Nov	40	72	192	192	120	192	1,304	1,108
Dec	88	104	232	248	136	136	456	173
Total	**698**	**822**	**1,456**	**2,032**	**2,096**	**2,064**	**3,672**	**5,236**

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).

Table 3.1: Incoming Waste to Midlands Waste Transfer Station	
EWC Code	**Incoming Waste (Tonnes)**
020399 – Coffey Sacks	5.94
150101 BC – Bailed Cardboard	2,260.04
150101 BP – Baled Paper	1.74
150101 C – loose Cardboard	2,999.84
150101 MX –Mixed Paper & Cardboard	40.58
150101 P - Loose Paper	6.52
150102 BPL – Bailed Plastic Packaging	30.06
150102 PL – Plastic Packaging	8.94
150107 – Glass Bottles & Jars	301.66
160103 - Tyres	1.4
200134 - Batteries	0.12
170107 – Rubble	511.92
170202 - Glass	43.24
170411 - Cable	3.08
170504 – Soil & Stone	291.7
170802 – Plaster Board	85.36
170904 – Mixed C&D	6,942.85
180104 – Non Haz. Healthcare Waste	327.3
191212 – Mixed Waste from MRF	1,816.28
200101 NP	45.22
200102 – glass, sheetin	4.12
200108 – Biodegradable Canteen Waste	1,177.07
200108 D	3,491.78
200136	36.94
200138 - Wood	1,487.68
200139 – Hard Plastic	474.82
200140 - Metals	645.98
200199 P	80.1
200201	235.24
200301 C – Commercial Mixed Waste	24,260.25
200301 D – Domestic Waste	15,799.08
200301 K – Kerbside Blue Bin Contents	5,003.50
200303 – Street Cleaning Residues	1,234.32
Grand Total	**69,807.63**

Table 3.2 Outgoing Waste Recovered / Disposed from Midlands Waste Transfer Station				
EWC Code	**Outgoing Waste Vol. (tonne)**	**Destination Name**	**Destination Address**	**License No.**
150101BC	292.92	Failand Paper services Ltd.	11 Triangle South, Clifton, Bristol UK BS8 1EY	
	291.9	Irish Packaging Recycling	Ballymount Road, Walkinstown, Dublin 12	WPR 021/02
	3461.3	(MLM) ACM Europe (UK)	Adamstown Hse, Towers Buisness Pk. Wilmslow Rd., Didsbury, Manchester, UK. M20 2YY	
150101BP	109.2	Ashley Paper Sales Ltd	Underwood House, Mill Lane, Ashley, WA15 ORD	
150101C	267.06	AES Tullamore	Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly	W0104-02
	170.3	Irish Packaging Recycling	Ballymount Road, Walkinstown, Dublin 12	WPR 021/02
150102BP	41.2	Asia Global Trade Ltd	7 Westbourne Gargens, Suite 2, London W2 5NR-UK	
	19.34	AWS Eco Plastics Ltd.	Unit 2, Britannia Business Pk., Point Pleasant Ind. Est., Wallsend, Tyne & Wear, 6HA, EA	WML/73274
	29.38	Greenway Ireland Ltd	11 Porthill Road, Mountmorris, BT60 2TY	WML 03/02
	23.84	Leinster Environmental	Clermont Business Park, Haggardstown, Dundalk, Co. Louth	WP2008/06
150102PL	189.58	AES Tullamore	Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly	W0104-02
	16.14	Irish Packaging Recycling	Ballymount Road, Walkinstown, Dublin 12	WPR 021/02
150107	248.48	Glassdon Rec.	52 Creagh Rd., Toomebridge, Co. Antrim	
160103	29.38	Crumb Rubber	Mooretown, Dromiskin, Dundalk, Co. Louth	DC/08/1136/
	6.16	Wilton Waste Recycling	Kiffa, Ballyjamesduff, Co. Cavan	W 06/03
160505	2.52	Apex Fire	Moneyhall, Cavan, Co. Clare	WP06-31
	1.8	Commons Fuels	Commons Lane, Navan, Co. Meath	
	4.66	Flogas	Dublin Road, Drogheda, Co. Louth	
160601	0.46	Enva	Clonmainham Ind. Est. Portlaoise, Co. Laois	181-4
	5.96	Wilton Waste Recycling	Kiffa, Ballyjamesduff, Co. Cavan	W 06/03
170107	480.36	Doherty Quarries & Waste Mgt Facility	Cruicetown, Slane, Co. Meath	WMP 2007/39
	3572.8	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
170201	248.88	AES Portlaoise	Kyletalesha, Portlaoise, Co. Laois	W0194-02
	711.9	Conroy Recycling	Sonna, Mullingar, Co. Westmeath	
	2182.12	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**	**Destination Name**	**Destination Address**	**License No.**
170202	16.6	Murphy Environmental	Hollywood Great, Nags Head, The Naul, Co. Dublin	W0129-2
170402	3.66	Wilton Waste Recycling	Kiffa, Ballyjamesduff, Co. Cavan	W 06/03
170411	11.26	Wilton Waste Recycling	Kiffa, Ballyjamesduff, Co. Cavan	W 06/03
170504	28.48	Doherty Quarries & Waste Mgt Facility	Cruicetown, Slane, Co. Meath	WMP 2007/39
	688.6	Harristown	Harristown, Navan, Co. Meath	10/0004/01
170802	58.24	Panda Waste Services	Rathdrinagh, Beauparc, Navan, Co. Meath	W0140/03
	11	Recycleworld (Sandyhills)	N0.6 Mulberry Crescent, Castlenock, Dublin 15	WCP112
170904	23.12	AES Portlaoise	Kyletalesha, Portlaoise, Co. Laois	W0194-02
	11.28	Wilton Waste Recycling	Kiffa, Ballyjamesduff, Co. Cavan	W 06/03
190503	5679.26	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
191209	17805.48	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
191212	5746.78	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
	19438.58	Knockharley Landfill	Knockharley, Kentstown, Co. Meath	W0146-1
200136	36.16	KMK Metals.	Cappincur Ind. Est., Daingean Rd., Tullamore, Co. Offaly	W0113-03
200139	30.7	Leinster Environmental	Clermont Business Park, Haggardstown, Dundalk, Co. Louth	WP2008/06
200140	455.3	A1 Metal Recycling	Acragar, Mountmellic, Co. Laois	WP08/601/01
	429.9	Clearway	41 Dobbin Rd., Portadown, Co. Armagh BT62 4EY	LN/09/29
	505.96	Multimetals	The Marrough, Wicklow Town, Co. Wicklow	09/0014/01
	2.86	Wilton Waste Recycling	Kiffa, Ballyjamesduff, Co. Cavan	W 06/03
200201	107.88	BNM Kilberry	Kilberry, Co. Kildare	W0198-01
200301C	332	AES Portlaoise	Kyletalesha, Portlaoise, Co. Laois	W0194-02
	38.28	Wilton Waste Recycling	Kiffa, Ballyjamesduff, Co. Cavan	W 06/03
200301K	556.7	AES Tullamore.	Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly	W0104-02
	32.56	Thornton Waste Disposal	Killeen Rd. Ballyfermot, Dublin 10	W0044-02
PALLETS	35.54	Paddy Daly	Kilmainham, Kells, Co. Meath	
Grand Total	**69,493.82**			

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 766,000 Litres and Green Diesel Consumption was 155,541Litres. The Kerosene usage for the site during 2010 was 4,650 Litres.

The total electrical consumption at the site was 237,000 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 tanks is emptied and wastewater directed to Navan WWTP. A total of 5,236 m3 was directed to Navan WWTP.

4.3 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 2010

Table 5.1 Progress against Objectives & Targets for 2010

Ref.	Objective	Target	Timescale	Response	Details
1	To increase the area of hard-standing	Increase the area of hardstanding in the yard to assist vehicular parking	Dec-10	MD	This has been postponed until details of site remediation have been confirmed
2	Diversion of biodegradable commercial waste from landfill	Encourage commercial customers to avail of the brown bin collection to increase diversion of biodegrable commercial waste from landfill	Dec-10	MD	Ongoing. This coincided with the introduction of the Food Waste Regulations in July 2010. All commercial customers are now required to either avail of a brown bin collection or treat food waste on-site.
3	Environmental Monitoring	As per Waste Licence: Should any limits be exceeded, corrective actions to be implemented	Dec-10	MD/LC	Ongoing
4	Installation of upgraded dust suppression system	Install upgraded Dust Suppression System within Waste Transfer Building	Dec-10	MD	Dust Curtains have been replaced and front of Waste Transfer Building has been closed off to reduce escape of dust.
5	Upkeep of Environmental Management System	Accreditation of EMS to ISO 14001	Dec-10	MD/LC	Ongoing. AES has received group ISO 14001 Certification. AES Navan EMS is currently being updated in line with the standard and will be uploaded to Viewise Document Management System.
6	Environmental Training & Awareness	Review all Environmental Training Requirements	Nov-10	MD/LC	Ongoing as part of review of update of EMS.

5.2 Schedule of Objectives and Targets for 2011.

Table 5.2 Proposed Objectives & Targets for 2011

Ref.	Objective	Target	Timescale	Respons.	Status
1	Maximise Recovery of Recyclables	Household glass bin being rolled out Feb 2011	Feb 2011	MD	Ongoing
		Household brown bin being rolled out July 2011	Jul 2011	MD	Ongoing
2	Diversion of biodegradable waste from landfill	Household brown bin being rolled out July 2011	Jul 2011	MD	Ongoing
		The quantity of BMW sent to Landfill will be calculated on a quarterly basis to ensure that Diversion Targets are met.	Dec 2011	MD	Ongoing
3	Environmental Monitoring	As per Waste Licence: Should any limits be exceeded, corrective actions to be implemented.	Dec 2011	MD/IH/LC	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	Dec 2011	Logistics Manager	Trials done in 2010. Streamlining has started & will be reviewed continuously
		Drivers to complete EcoDrive Training	Dec 2011	IH	Ongoing
		Continued use of Dipetane Fuel Additive to improve fuel economy, reduce emissions, extend oil life and reduce engine wear.	Dec 2011	IH	Ongoing
5	Upkeep of Environmental Management System	Ongoing review of precedures, objectives & targets, records, training and aspects register.	Dec 2011	Enviro Team	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	Jun 2011	Group	Ongoing

A report on the progress against the proposed Objectives and Targets for 2011 will be presented in the AER in 2011.

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 2010.

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

1) Noise — Annually
2) Dust Deposition — Three times per year
3) Storm Water — Weekly & Quarterly
4) Emissions to Sewer — Quarterly
5) Bioaerosol Monitoring — Annually
6) 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 5th August 2010 (Report Ref. ECS3702).

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 5th August 2010						
Location	Duration (mins)	Time	LAeq dB	LA10 dB	LA90 dB	LAmax dB
N1	30	14:41	54	58	48	71
N2	30	15:26	**56**	58	46	82
N3	30	15:57	**57**	62	37	79
N4	30	16:28	**65**	67	59	79
N5 (NSL)	30	12:56	42	44	36	61
N6 (NSL)	30	17:00	54	54	44	80

Note 1: Results highlighted bold represent an exceedence of Waste Licence limits.

Elevated noise levels were noted at three of the four boundary locations (N2, N3 and N4) during the 2010 noise monitoring survey. The main source of noise recorded at boundary locations N1 and N2 were, for the most part, due to off-site activities and trucks on the main access road to the AES Ltd. facility and neighbouring industrial facilities. The highest Sound Pressure Level (SPL) was recorded at N4 (65 dBA) and was primarily due to the processing of C&D waste nearby. Tonal noise was detected at locations N1 and N4. Tonal noise at N4 may be attributed to the continuous movement of a conveyor belt through the monitoring period.

The main source of noise at N3 originated from the movement of mobile plant machinery within the AES site, including occasional reversing alarms and loading/unloading of waste trucks.

The dominant source of noise detected at the NSL's was passing traffic (cars, vans, jeeps and lorries). The LAeq recorded (42/54 dB) did not exceed the EPA guideline limit. No tonal noise was detected at these monitoring locations.

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)*

Three dust sample jars were installed for a 31 day period; 25th May. – 25th Jun (Round 1), for a 29 day period 5th Aug – 3rd Sept (Round 2) and finally for a 29 day period 7th Oct – 5th Nov 2010 (Round 3). The results for the monitoring are presented in Table 6.4 below.

Table 6.4 Dust Monitoring Results				
Report Ref.		**ECS3647**	**ECS3673**	**ECS3749**
		Round 1	**Round 2**	**Round 3**
Monitoring Location	**Depositional Dust Limit**	**Deposition Rate 25th May-25th Jun**	**Deposition Rate 5th Aug-3rd Sep**	**Deposition Rate 7th Oct-5th Nov**
		($mg/m^2/day$)		
D1	350	**1331**	**659**	116
D2	350	163	**671**	**1985**
D3	350	**1070**	154	**714**
D4	350	**434**	202	192

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

As can be seen in Table 6.4, there were exceedences noted for each depositional dust monitoring event.

D1 – It was noted within reports that these exceedences were due to the presence of organic matter and green algae. Bird droppings were also noted within the Aug/Sept. sample jar. Although dead insects and organic material are removed by laboratory staff prior to analysis, it is not possible to remove finer particles of associated decaying organic matter which become dissolved in water (rainfall) within the sample jars.

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 (towards quarry) facing dust jar.

D4 – Exceedence noted during the May/June monitoring event. This exceedence was attributed to the warm dry weather experienced during monitoring combined with passing traffic on the adjacent road to Proudstown industrial estate and vehicles moving within the facility car-park. It is worth noting that this location is not subject to dust created from waste recycling activities due to screening.

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.	**ECS3536**	**ECS3647**	**ECS3673**	**ECS3749**
Parameter	**Sewer Sample Quarter 1**	**Sewer Sample Quarter 2**	**Sewer Sample Quarter 3**	**Sewer Sample Quarter 4**
pH (pH units)	5.4	5.8	6.3	5.1
TOC (mg/l)	1322	3400	1210	1719
BOD (mg/l)	2138	4950	1213	3550
COD (mg/l)	3935	9615	3750	4645
TSS (mg/l)	394	990	338	318
Sulphate (mg/l)	289.98	338.67	261.33	475.49
Copper (mg/l)*	47	93	57	52
Zinc (mg/l)	865	2953	705	1302
OFG (mg/l)	16	2	11	9
**DRO (mg/l)	2233	3087	8870	2591
**Mineral Oil (mg/l)	<10	<10	*	<10
MBAS (mg/l)	0.2	<0.05	0.53	1.30

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

** Sub-Contracted Test

Table 6.7 Storm-water monitoring results				
Report Ref.	**ECS3536**	**ECS3647**	**ECS3673**	**ECS3749**
	Quarter 1	**Quarter 2**	**Quarter 3**	**Quarter 4**
Parameter	**GWE-2**	**GWE-2**	**GWE-2**	**GWE-2**
pH (pH units)	7.5	8.3	8.4	*
Conductivity (µs/cm)	263	341	495	*
BOD (mg/l)	<2	<2	<2	*
COD (mg/l)	<10	<10	<10	*
TSS (mg/l)	5	<5	<5	*
Total N (mg/l)	3	3	2.4	*
Ammonia (mg/l)	0.02	0.12	0.11	*

*Results for GWE-2 are not available as no sample was collected due to minimal rain fall during monitoring

*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 5th August 2010.

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 Bio-aerosol Monitoring Locations

TABLE 6.8: LOCATION OF BIOAEROSOL SAMPLING POSITIONS		
Sampling Station	**Identity**	**Boundary Location**
Location 1	*SR - A/B*	*Sensitive Receptor* Housing estate south east of site.
Location 2	*UW - A/B*	*Upwind boundary* 30 m north west of the AES Boundary site
Location 3	*DW - A/B*	*Downwind location* (South of GAA Club House to NE of Site)

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

Table 6.9 Results of Total Bacterial Monitoring (Report Ref ECS3702)			
Sampling Location	**Time**	**Total No. of Colonies**	**Concentration cfu/m^3**
UW-A	12:10 – 12:35	156	220.5
UW-B	14:55 – 15:20	53	74.9
	Average	**104.5**	**147.7**
SR-A	14:02 – 14:27	86	121.6
SR-B	16:17 – 16:42	370	523
	Average	**228**	**322.3**
DW-A	13:00 – 13:25	81	114.5
DW-B	15:38 – 16:03	110	115.5
	Average	**95.5**	**115**

Table 6.10 Results of Aspergillus Monitoring (Report Ref ECS3702)			
Sampling Location	**Time**	**Total No. of Colonies**	**Concentration cfu/m^3**
UW-A	12:10 – 12:35	0	0
UW-B	14:55 – 15:20	0	0
	Average	**0**	**0**
SR-A	14:02 – 14:27	0	0
SR-B	16:17 – 16:42	1	1.4
	Average	**1**	**1.4**
DW-A	13:00 – 13:25	0	0
DW-B	15:38 – 16:03	0	0
	Average	**0**	**0**

Results of bioaerosols indicated that bacteria levels were present at the downwind (115cfu/m^3), Sensitive Receptor (322.3 cfu/m^3) and upwind (147.7 cfu/m^3) locations for *Total Bacteria.*

Aspergillus fumigatus was not detected at the upwind and downwind locations but at the sensitive receptor sample location (1.4 cfu/m3) during the monitoring event.

As the upwind location displays higher Bi-aerosols than the downwind location (147.7→115 cfu/m^3), it is reasonable to suggest that activity at the AES facility is not responsible for the higher levels of Bi-aerosol concentration detected at the Sensitive Receptor (322.3 cfu/m^3).

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.

During the monitoring period monitoring point GW-1 (tap located in the workshop), which was supplied by water from the Kilsaran well, was connected to the town mains as a means of water supply to the site. As there were 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 would represent the quality of the groundwater's underlying the AES Navan facility.

A second sample from the county council water supply (GW-1) located in the garage within the AES facility was also extracted for comparison reasons as requested by AES personnel. The monitoring locations sampled are presented in Table 6.11.

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 July 2010 and the results are presented in Table 6.12.

Table 6.12 Groundwater Monitoring Results			
Parameter	**Round 1**	**Round 2**	**Guideline Threshold Values** [Note1]
	GW-1 Report Ref. ECS3536	**GW-2 Report Ref. ECS3673**	
pH (pH units)	7.7	7.7	6.5-9.5
Conductivity @ 25°C (µS/cm)	843	860	800-1875
COD (mg/l)	<10	<10	-
Chloride (mg/l)	29.62	30.17	24-187.5
Fluoride (mg/l)	<0.10	0.17	1.0 [Note 2]
Ammonia-N (mg/l)	<0.02	<0.02	0.05-0.136
Total Nitrogen (mg/l)	<1.00	<1.00	-
Nitrate as N(mg/l)	0.11	0.11	8.47
Total Coliforms (MPN/100ml)	17	22	-
Faecal Coliforms (MPN/100ml)	17	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:

- Household glass bin being rolled out Feb 2011.
- Household brown bin being rolled out July 2011
- The quantity of BMW sent to Landfill will be calculated on a quarterly basis to ensure that Diversion Targets are met.

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 2010

Midland Waste was not in a position to increase the area of hard-standing during 2010 as planned, because a decision on-site remediation work is pending from the Agency. Dust Curtains have been replaced and front of Waste Transfer Building has been closed off to reduce escape of dust.
Further details on site development works undertaken during 2010 is presented in Table 5.1: Progress against Targets for 2010.

7.3 Proposed Development Works for 2011

Proposed development works for 2011 include increase the area of hard-standing in the yard to assist vehicular parking, pending a decision on site remediation from the Agency
As yet there are no further development works proposed for 2011 at the AES Navan facility.

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 Mona (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 2010 reporting period, one complaint was received by the site from neighbouring facility, Kilsaran Concrete in relation to odour. Upon further investigation by AES staff, this odour was not evident. It was agreed that Kilsaran Concrete would contact Mark Duffy (Site Manager) should the issue arise again.

9.2 Reported Incidents Summary

The facility had six incidents during the reporting period (see Appendix III);

1. Dust emissions recorded from the facility during the period 25th May - 25th June 2010 at locations D1, D3 & D4. 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.
2. Exceedence in noise emissions within facility boundaries (N2, N3&N4) on 5th August 2010. The main sources of noise, within the facility, originated from trucks loading and unloading waste bins, machinery operating in the AES yard and recycling sheds and the intermittent beeping of reversing machinery. No tonal noise was detected from the boundary monitoring locations. No corrective action was deemed necessary.
3. Dust emissions recorded from the facility during the period 5th August – 3rd September 2010 at locations D1 & D2. 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.
4. Diesel spill at site on 3rd September 2010 due to uncareful operative. This was contained and cleaned up. No corrective action was deemed necessary.
5. Hydraulic oil spill off-site 14th October 2010 due to burst hydraulic hosing. The oil was cleaned up using oil-dry and spill kits. The damaged hydraulic hosing was replaced with new hosing. No further correction action was deemed necessary.
6. Dust emissions recorded from the facility during the period 7th October – 5th November 2010 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:

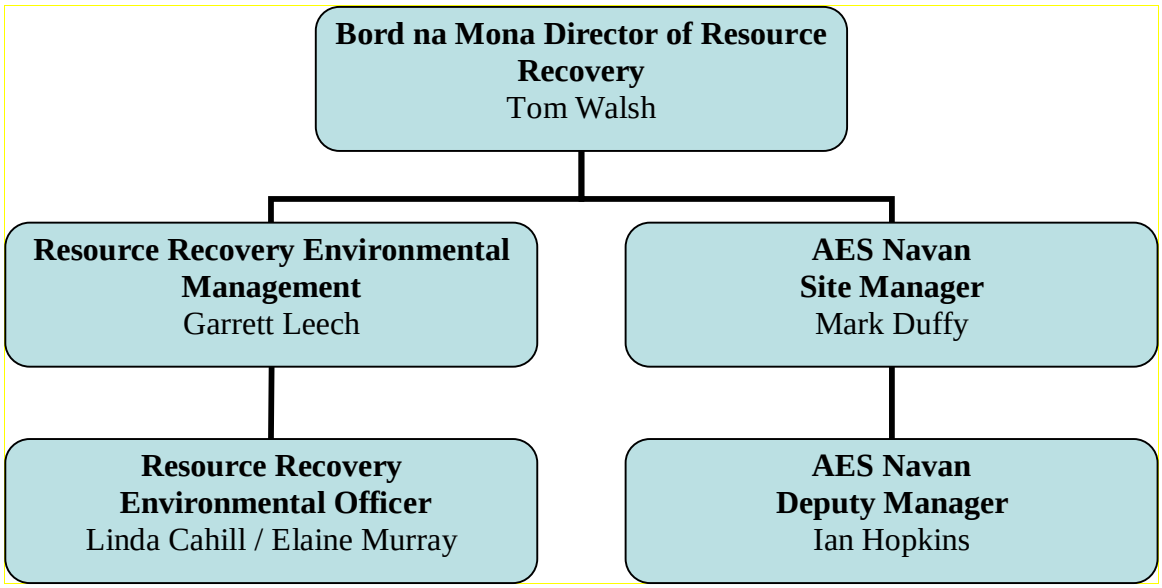
- EP-ERP-01_General Emergency Preparedness & Response.doc
- EP-ERP-02_Spill Clean Up Procedure.doc
- EP-ERP-03_Fire Explosion Procedure.doc
- EP-ERP-04_Malicious Damage Procedure.doc
- EP-ERP-05_Unforeseen Emergencies & Fugitive Emissions.doc

These documents are attached in Appendix 2.

10.0 FACILITY MANAGEMENT

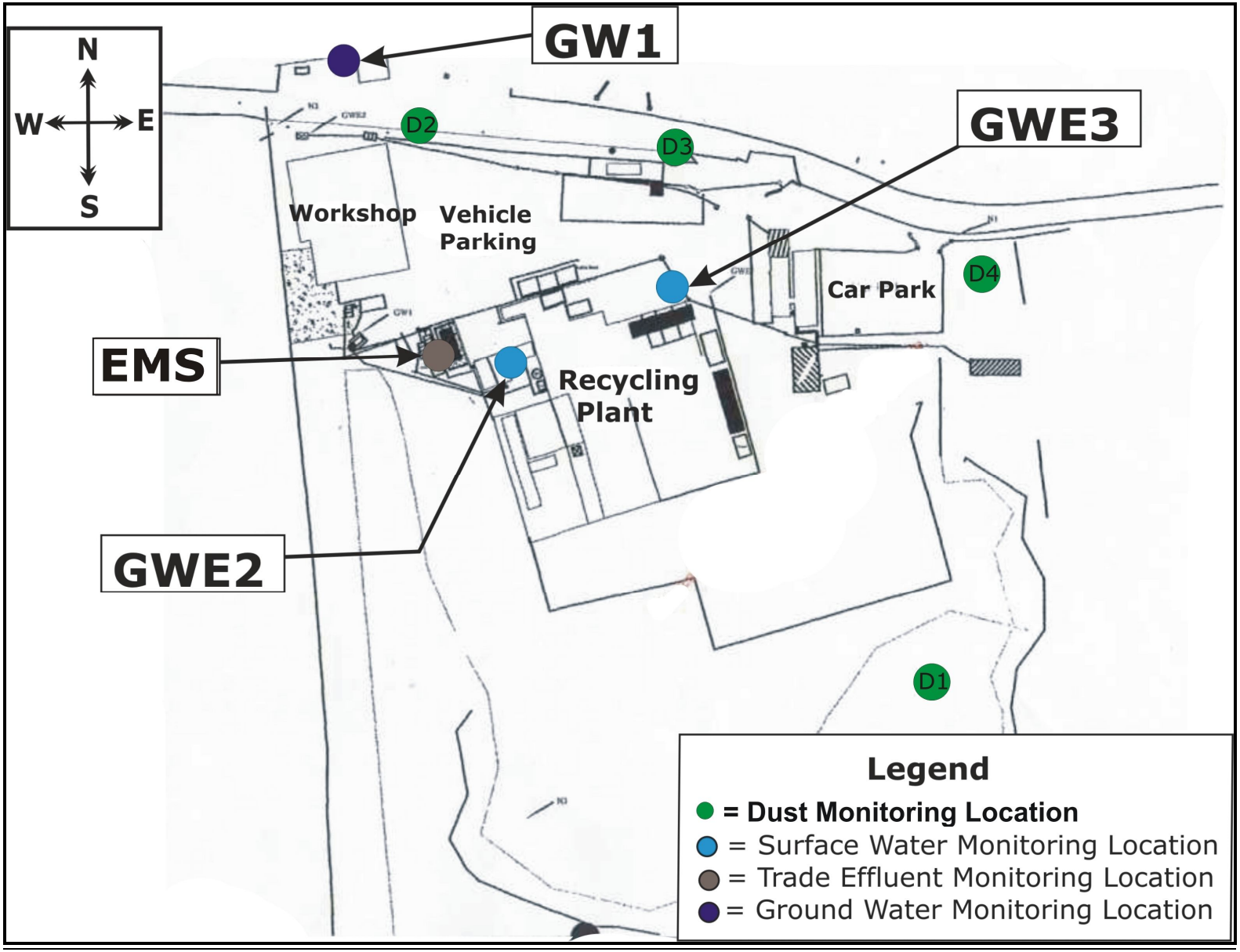
10.1 Managing Staffing Structure

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



APPENDIX 1

Map of Monitoring Locations


GW1
GWE3
EMS
GWE2
N
W
E
S
D1
D2
D3
D4
Workshop
Vehicle Parking
Car Park
Recycling Plant
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)

Environmental Protection Agency

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.11

REFERENCE YEAR	2010

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
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	Linda Cahill
AER Returns Contact Email Address	lcahill@aesirl.ie
AER Returns Contact Position	Environmental Officer
AER Returns Contact Telephone Number	045 439478
AER Returns Contact Mobile Phone Number	087-7697465
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	
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?	No
Have you been granted an exemption ?	No
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

Sheet : Treatment Transfers of Waste | AER Returns Workbook | 30/3/2011 9:14

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE | PRTR# : W0131 | Facility Name : Midland Waste Disposal Company Limited | Filename : W0131_2010(1).xls | Return Year : 2010 |

Please enter all quantities on this sheet in Tonnes

31/03/2011 14:22

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Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used M/C/E	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)
To Other Countries	15 01 01	No	292.92	Baled Cardboard	R13	M	Weighed	Abroad	Failand Paper Services,.	11 Triangle South,Clifton,Bristol,BS81EY ,United Kingdom		
Within the Country	15 01 01	No	291.9	Baled Cardboard	R13	M	Weighed	Offsite in Ireland	Irish Packaging Recycling,WPR 0263/01	Ballymount Road,Walkinstown,Dublin 12,,Ireland		
To Other Countries	15 01 01	No	3461.3	Baled Cardboard	R13	M	Weighed	Abroad	(MLM) ACM Europe (UK),.	Adamstown House,Towers Business Pk. Wilmslow Rd. Didsbury ,Manchester,M20 2YY,United Kingdom		
To Other Countries	15 01 01	No	109.2	paper and cardboard packaging	R13	M	Weighed	Abroad	Ashley Paper Sales Ltd.,.	Underwood House,Mill Lane Ashley,,WA15 ORD,United Kingdom		
Within the Country	15 01 01	No	267.06	Cardboard 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 01	No	170.3	Cardboard packaging	R13	M	Weighed	Offsite in Ireland	Irish Packaging Recycling,WPR 021/02	Ballymount Road,Walkinstown,Dublin 12,,Ireland		
To Other Countries	15 01 02	No	41.2	plastic packaging	R13	M	Weighed	Abroad	Asia Global Trade,.	7 Westbourne Gardens,Suite 2,London,W2 5NR,United Kingdom		
To Other Countries	15 01 02	No	19.34	plastic packaging	R13	M	Weighed	Abroad	AWS Eco Plastics Ltd.,WML/73274	Unit 2 Britannia Business Park,Point Plesant Ind. Est. Wallsend ,Tyne & Wear,6HA EA,United Kingdom		
Within the Country	15 01 02	No	29.38	plastic packaging	R13	M	Weighed	Offsite in Ireland	Greenway Ireland Ltd,WML 03/02	11 Porthill Road,Mountmorriss,,BT60 2TY,Ireland		
Within the Country	15 01 02	No	23.84	plastic packaging	R13	M	Weighed	Offsite in Ireland	Leinster Environmental,WP2008/06	Clermount Buisness Pk.,Haggardstown Dundalk ,Co. Louth,,Ireland		
Within the Country	15 01 02	No	189.58	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	16.14	plastic packaging	R13	M	Weighed	Offsite in Ireland	Irish Packaging Recycling,WPR 021/02	Ballymount Road,Walkinstown,Dublin 12,,Ireland		
To Other Countries	15 01 07	No	248.48	glass packaging	R13	M	Weighed	Abroad	Glassdon Recycling Ltd,.	52 Creagh Rd.,Toomebridge,Co. Antrim,,United Kingdom		
Within the Country	16 01 03	No	29.38	end-of-life tyres	R13	M	Weighed	Offsite in Ireland	Crumb Rubber,DC/08/113601	Mooretown,Dromiskin,Dundalk Co. Louth,,Ireland		
Within the Country	16 01 03	No	6.16	end-of-life tyres	R13	M	Weighed	Offsite in Ireland	Wilton Waste Recycling,W06/03	Kiffa,Ballyjamesduff,Co. Cavan,,Ireland		
Within the Country	16 05 05	No	2.52	gases in pressure containers other than those mentioned in 16 05 04	R13	M	Weighed	Offsite in Ireland	Apex Fire,WP06-31	Moneyhall ,Cavan ,Co. Clare,,Ireland		
Within the Country	16 05 05	No	1.8	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	4.66	gases in pressure containers other than those mentioned in 16 05 04	R13	M	Weighed	Offsite in Ireland	Flogas,.	Dublin Road,Drogheda,Co. Louth,,Ireland		
Within the Country	**16 06 01**	**Yes**	0.46	lead batteries	R4	M	Weighed	Offsite in Ireland	Enva,W184/01	Clonmainham Ind Est.,Portlaoise,Co. Laois,,Ireland	Campine Recycling,474955451,Beerse,Belgium,,,Belgium Enva Ireland Ltd,W0184-01,Clonmainham Industrial Estate,Portlaoise,Co. Laois,,Ireland	Campine Recycling,Beerse,,,,Belgium
Within the Country	16 06 01	Yes	5.96	lead batteries	R4	M	Weighed	Offsite in Ireland	Wilton Waste Recycling,W06/03	Kiffa,Ballyjamesduff,Co. Cavan,,Ireland		Campine Recycling,,Beerse,,Belgium
Within the Country	17 01 07	No	480.36	mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	D1	M	Weighed	Offsite in Ireland	Doherty Quarries & Waste Mgt. Facility,WMP 2007/39	Cruicetown,Slane,Co. Meath,,Ireland		

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Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used M/C/E	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)
Within the Country	17 01 07	No	3572.8	mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	D1	M	Weighed	Offsite in Ireland	Drehid Waste Management Facility,W0201-03	Kilinagh Upper,Carbury,Co. Kildare, ,Ireland		
Within the Country	17 02 01	No	711.9	wood	R13	M	Weighed	Offsite in Ireland	Conroy Recycling Ltd ,.	Sonna,Mullingar,Co. Westmeath, ,Ireland		
Within the Country	17 02 01	No	2182.12	wood	R13	M	Weighed	Offsite in Ireland	Wilton Waste Recycling,W06/03	Kiffa,Ballyjamesduff,Co. Cavan, ,Ireland		
Within the Country	17 02 02	No	16.6	glass	R13	M	Weighed	Offsite in Ireland	Murphy Environmental,W0129-2	Hollywood Great,Nags Head The Naul ,Co. Dublin, ,Ireland		
Within the Country	17 04 02	No	3.66	aluminium	R13	M	Weighed	Offsite in Ireland	Wilton Waste Recycling,W06/03	Kiffa,Ballyjamesduff,Co. Cavan, ,Ireland		
Within the Country	17 04 11	No	11.26	cables other than those mentioned in 17 04 10	R13	M	Weighed	Offsite in Ireland	Wilton Waste Recycling,W06/03	Kiffa,Ballyjamesduff,Co. Cavan, ,Ireland		
Within the Country	17 05 04	No	28.48	soil and stones other than those mentioned in 17 05 03	D1	M	Weighed	Offsite in Ireland	Doherty Quarries & Waste Mgt. Facility,WMP 2007/39	Cruicetown,Slane,Co. Meath, ,Ireland		
Within the Country	17 05 04	No	688.6	soil and stones other than those mentioned in 17 05 03	D1	M	Weighed	Offsite in Ireland	Harristown,10/0004/01	Harristown,Navan,Co. Meath, ,Ireland		
Within the Country	17 08 02	No	58.24	gypsum-based construction materials other than those mentioned in 17 08 01	R13	M	Weighed	Offsite in Ireland	Panda Waste Services,W0140/03	Rathdrinag,Beauparc,Navan Co. Meath, ,Ireland		
Within the Country	17 08 02	No	11.0	gypsum-based construction materials other than those mentioned in 17 08 01	R13	M	Weighed	Offsite in Ireland	Recycle World,WCP112	No.6 Mulberry Crescent,Castlenock,Dublin 15, ,Ireland		
Within the Country	17 09 04	No	23.12	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R13	M	Weighed	Offsite in Ireland	AES Portlaoise,W0194-02	Kyletalesha,Portlaoise,Co. Laois, ,Ireland		
Within the Country	17 09 04	No	11.28	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R13	M	Weighed	Offsite in Ireland	Wilton Waste Recycling,W06/03	Kiffa,Ballyjamesduff,Co. Cavan, ,Ireland		
Within the Country	19 05 03	No	5679.26	off-specification compost	D1	M	Weighed	Offsite in Ireland	Drehid Waste Management Facility,W0201-03	Kilinagh Upper,Carbury,Co. Kildare, ,Ireland		
Within the Country	19 12 09	No	17805.48	minerals (for example sand, stones)	D1	M	Weighed	Offsite in Ireland	Drehid Waste Management Facility,W0201-03	Kilinagh Upper,Carbury,Co. Kildare, ,Ireland		
Within the Country	19 12 12	No	5746.78	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 Management Facility,W0201-03	Kilinagh Upper,Carbury,Co. Kildare, ,Ireland		
Within the Country	19 12 12	No	19438.58	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,W0146-1	Knockharley Landfill,Kentstown,Co. Meath, ,Ireland		
Within the Country	20 01 36	No	36.16	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 Road tullamore ,Co. Offaly, ,Ireland		
Within the Country	20 01 39	No	30.7	plastics	R13	M	Weighed	Offsite in Ireland	Leinster Environmental,WP2008/06	Clermount Buisness Pk. ,Haggardstown Dundalk ,Co. Louth, ,Ireland		
Within the Country	20 01 40	No	455.3	metals	R13	M	Weighed	Offsite in Ireland	A1 Metals,WP08/601/01	Acragar,Mountmellick,Co. laois, ,Ireland		
To Other Countries	20 01 40	No	429.9	metals	R13	M	Weighed	Abroad	Clearway,LN/09/29	41 Dobbin Rd ,Portadown,Co. Armagh,BT62 4EY,United Kingdom		
Within the Country	20 01 40	No	505.96	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	2.86	metals	R13	M	Weighed	Offsite in Ireland	Wilton Waste Recycling,W06/03	Kiffa,Ballyjamesduff,Co. Cavan, ,Ireland		
Within the Country	20 02 01	No	107.88	biodegradable waste	D1	M	Weighed	Offsite in Ireland	Bord na Mona Kilberry,W0198-01	Kilberry,Co. Kildare, , ,Ireland		
Within the Country	20 03 01	No	332.0	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	AES Portlaoise,W0194-02	Kyletalesha,Portlaoise,Co. Laois, ,Ireland		
Within the Country	20 03 01	No	38.28	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Wilton Waste Recycling,W06/03	Kiffa,Ballyjamesduff,Co. Cavan, ,Ireland		
Within the Country	20 03 01	No	556.7	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	AES Tullamore,W0104-02	Cappincur Ind. Est ,Daingean Rd ,Tullamore Co. Offaly, ,Ireland		

Sheet : Treatment Transfers of Waste

AER Returns Workbook

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Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used: M/C/E	Method Used: Method Used	Location of Treatment	Haz Waste : Name and License/Permit No of Haz Waste Facility Name and License/Permit No of Recovery/Disposer	Non Haz Waste : Address of Non Haz Waste Facility Address of Recovery/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination ie. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
Within the Country	20 03 01	No	32.56	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Thornton Waste Disposal,W044-02	Killeen Rd,Ballyfermot,Dublin 10, Ireland		
Within the Country	03 01 05	No	35.54	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04	R13	M	Weighed	Offsite in Ireland	Paddy Daly.	Kilmainham,Kells,Co. Meath., Ireland		
Within the Country	17 02 01	No	248.88	wood	R13	M	Weighed	Offsite in Ireland	AES Portlaoise,W0194-02	Kyletalesha,Portlaoise,Co. Laois, Ireland		

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

Link to previous years waste data
Link to previous years summary data & percentage change

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