ANNUAL ENVIRONMENTAL REPORT

AES PORTLAOISE WASTE TRANSFER STATION

JANUARY 2010
THROUGH
DECEMBER 2010

Waste Licence Registration Number: W0194-02

Licensee: Advanced Environmental Solutions (AES) Ireland Ltd

Location of Activity: Kyletalesha
Portlaoise
County Laois

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 Portlaoise Waste Transfer Station in Kyletalesha, Co. Laois 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 Kyletalesha, Portlaoise, Co. Laois (E245 N202) on 30th March 2007. The Waste Licence reference number is W0194-02.

The facility is currently licensed to a maximum of 99,000 tonnes of waste per annum (80,000 tonnes of Non-hazardous household waste, 3,000 tonnes of Non-hazardous industrial sludges, 5,000 tonnes of Hazardous waste (WEEE), 5,000 tonnes of C&D waste and 6,000 tonnes of sewage sludge). The site is located approximately 2km north of Portlaoise town.

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

AES Ireland Ltd. currently operates a network of recycling & transfer facilities throughout Leinster and further afield. These facilities are located in Navan, Co. Meath, Tullamore, Co. Offaly, Portlaoise, Co. Laois, Nenagh, Co. Tipperary and Rosslare, Co. Wexford.

Bord na Móna Technical Services was retained to prepare and submit the Annual Environmental Report (AER) for the facility in compliance with Condition 11.7 of the Waste Licence.

This report addresses Condition 11.7 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 F: Annual Environmental Report of the Waste License for the facility. This AER covers the reporting period from 1st January. 2010 up to 31st December 2010.

1.1 Site Description and Activities

AES operates a Waste License (W0194-02) for its Waste Transfer Station at Kyletalesha, Portlaoise, Co. Laois. 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. The site is located approximately 2km north of Portlaoise town – Figure 1.0.1.

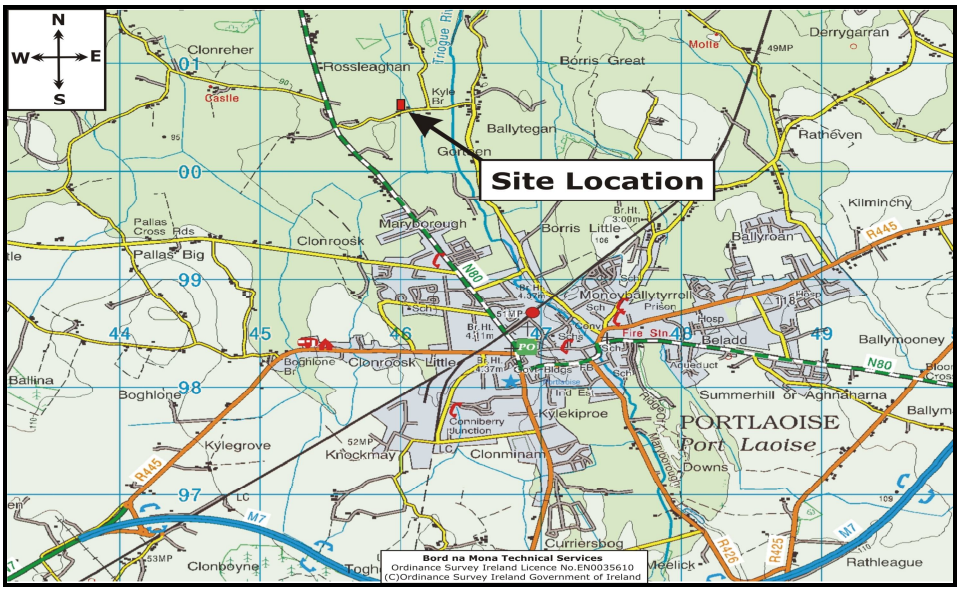


Figure 1.1 Site location map of the AES facility Kyletalesha, Portlaoise, Co. Laois.

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 07:30 to 19:00 Monday to Sunday inclusive. Waste is not accepted at the site on Sundays or Bank Holidays.

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.

Each waste load is visually inspected to ensure that all wastes comply with the requirements of the Waste License, W0194-02. The waste Segregations Manager is responsible for carrying out the waste visual inspections and for maintaining a written record of all loads of waste received on-site.

Within the Recycling Plant Building the waste is sorted according to its recycling potential and is either deemed suitable for further onward recycling / recovery or transported off site for final disposal (non-recoverable waste) to an authorized landfill. Materials commonly accepted for recycling include; Steel / Iron, Cardboard, Newsprint, Timber, Construction & Demolition, Green Waste, Plastic, Glass and Gas Cylinders. Household mixed recyclables are collected and accepted at the facility, waste is sorted and segregated and bailed for further recycling off-site. All waste deemed unsuitable for recycling / recovery is loaded into designated compactor bins, which are sealed and then transported to authorized facilities.

All loads exported off-site are weighed on the weighbridge. An individual weight docket is printed for each waste load.

2.0 EMISSIONS FROM THE FACILITY

Emissions as per Schedule B of the Waste License, W0194-02, 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 in Section 6 of this report.

During the reporting period wastewater was collected from Interceptor tanks and tankered off-site;

- 25th January 2010: 12,740 Litres (Ormonde Organics)
- 24th February 2010: 16,780 Litres (Enva)
- 28th February 2010: 9,680 Litres (Interceptor A&B)
- 13th February 2010: 10,780 Litres (Enva)
- 24th March 2010: 11,040 Litres (Ormonde Organics)
- 16th June 2010: 7,720 Litres (Enva)
- 16th July 2010: 9,380 Litres (Enva)
- 26th July 2010: 14,880 Litres (Accelerated Drain Cleaning)
- 31st August 2010: 10,560 Litres (Accelerated Drain Cleaning)
- 21st December 2010: 7,000 Litres (Enva)
- 23rd December 2010: 4,000 Litres (Enva)
- **Total = 114,560**

Leachate from the bin wash area was collected and tankered off-site;

- 25th March 2010: 5,540 Litres (Ormonde Organics)
- 15 April 2010: 4,700 Litres (Enva)
- 16th June 2010: 3,680 Litres (Enva)
- 4th October 2010: 16,560 Litres (Accelerated Drain Cleaning)
- **Total = 30,480 Litres**

The on-site septic tank was emptied on the 10th November 2010 by Accelerated Drain Cleaning. A total of 6,400 Litres of septic tank sludge was tankered off site.

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
- Household Hazardous Waste

These waste classifications, subsequent to inspection, can be further categorized as been either suitable for recycling (picking line). Recycling off-site or disposal off-site to authorized disposal facilities. Household hazardous waste in the form of batteries and fluorescent tubing that are accepted to the site are into individual storage skips / areas within the plant and subsequently by authorized contractors for further treatment / disposal. Any materials which are suspect in nature (i.e. hazardous or not acceptable at the facility) are routed to the Waste Quarantine Area within the Recycling Plant for further examination and processing prior to removal off-site for appropriate treatment / disposal by an appropriate hazardous waste contractor.

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 6 Biological treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraph 1 to 5 of paragraphs 7 to 10 of this Schedule.

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 9 Use of any waste principally as a fuel or other means to generate energy:

Class 11 Use of waste obtained from 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 is recorded and presented in Table 3.1 and 3.2 (waste recovered / disposed from the facility).

Table 3.1: Incoming Waste to Kyleteshal Waste Transfer Station	
EWC Code	**Incoming Waste (Tonnes)**
150101 BC – Bailed Cardboard	396.75
150101 C – Loose Cadboard	377.92
150101 MX – Mixed Paper and Cardboard	154.41
150102 BL	128.20
150102 PLB – Bailed Bottles	48.62
150102 PL – Plastic Packaging	627.45
150102 PLW	8.18
150102 T – Tetrapack	18.18
150103 – Wood Packaging	218.09
150104	5.42
150106 – Mixed Packaging	314.48
150107 – Glass Bottles & Jars	1,393.40
150107 F – Flat Glass	41.82
160103 - Tyres	1.34
160304 – Off Spec Material	20.03
170107 – Rubble	75.24
170201 – Wood from C&D	1,919.45
170202	9.44
170407 – Steel, Const. Metal, Pipes	278.73
170802 – Plaster Board	25.76
170904 – Mixed C&D	7,411.79
180104 – Non Haz. Healthcare Waste	514.00
190503	296.98
190805 – Sludges from WTP	19.60
191209 – Trommel Fines	126.64
Whitegoods	4.12
200108 – Biodegradable Canteen Waste	3,842.85
200136	0.64
200139 – Hard Plastic	126.96
200140	0.50
200301 C – Commercial Mixed Waste	12,527.45
200301 D – Domestic Waste	11,917.52
200301 K – Kirbside Blue Bin Contents	6,666.70
Grand Total	**49,518.66**

Table 3.2 Outgoing Waste Recovered / Disposed from Kyletalesha Waste Transfer Station				
EWC Code	**Outgoing Waste**	**Destination Name**	**Destination Address**	**License**
15 01 01 BC	133.09	AES Tullamore	Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly	W0104-02
15 01 01 C - Cardboard	643.80	AES Tullamore	Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly	W0104-02
15 01 02 BPL - Plastic	69.31	AES Tullamore	Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly	W0104-02
15 01 02 PL - Plastic	97.70	AES Tullamore	Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly	W0104-02
15 01 03 – Wooden packaging	1,583.35	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
15 01 03 – Wooden packaging	169	O'TooleComposting	Ballintrane, Fennagh, Co.Carlow.	WP01/07
15 01 03 – Wooden packaging	1,664.16	Ormonde Organics	Killowen, Portlaw, Co. Kilkenny	W0237-01
15 01 03 – Wooden packaging	313.60	Thorntons Recycling	Killeen Rd. Ballyfermot, Dublin 10	W0044-02
15 01 03 – Wooden packaging	177.72	Erasco	Foxhole, Youghal, Co. Cork	W0211-01
15 01 03 – Wooden packaging	17.78	B.Downey	Tulla Road, Co. Kilkenny	
15 01 03 – Wooden packaging	19.68	Conroy Recycling	Sonna, Mullingar, Co. Westmeath	
15 01 04	2.62	MSM Recycling	Unit 41, Cookstown Ind Est, Tallagh, Dublin 24.	W0079-01
15 01 06 –	0.64	AES Tullamore	Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly	W0104-02
15 01 07 – Glass packaging	1,347.08	Glassdon Rec.	52 Creagh Rd., Toomebridge, Co. Antrim	LN/08/103
16 01 03	13.86	Crumb Rubber	Mooretown, Dromiskin, Dundalk, Co. Louth	DC/08/1136/01
16 03 04	0.88	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
17 01 02	47.90	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
17 01 07	1,858.36	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
17 02 01 -Wood	16.72	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
17 02 01 -Wood	168.56	Ormonde Organics	Killowen, Portlaw, Co. Kilkenny	W0237-01
17 02 01 -Wood	41.66	Thornton Rec.	Killeen Rd. Ballyfermot, Dublin 10	W0044-02
17 02 01 -Wood	55.12	Erasco	Foxhole, Youghal, Co. Cork	W0211-01
17 02 01 -Wood	75.24	B.Downey	Tulla Road, Co. Kilkenny	
17 02 01 -Wood	27.64	Conroy Recycling	Sonna, Mullingar, Co. Westmeath	
17 04 07 – Mixed metals	178.36	MSM Recycling	Unit 41, Cookstown Ind Est, Tallagh, Dublin 24.	W0079-01
17 04 07 – Mixed metals	505.79	One 51 Rec.	Unit 128/129, Shannon Ind Est, Shannon, Co. Clare	
17 08 02	7.8	Gypsum Recycling	Millenium House, Main St., Tullamore, Co. Offaly	WMP238/006
19 12 09 – Sand and Stone	9,544.72	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
19 12 12 – Mechanical treatment	6,142.94	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
19 12 12 – Mechanical treatment	2,904.74	Greyhound Rec.	Crag Avenue, Clondalkin Ind Est., Dublin 22	W0205-01
20 01 08 – Biodegradeable Waste	2,422.22	AES Navan	Clonmagaddan, Proudstown, Navan, Co. Meath	W0131-02
20 01 08 – Biodegradeable Waste	48.50	O'Toole Composting	Ballintrane, Fennagh, Co.Carlow.	WP01/07

Table 3.2 Contd. Outgoing Waste Recovered / Disposed from Kyletalesha Waste Transfer Station				
EWC Code	**Outgoing Waste**	**Destination Name**	**Destination Address**	**License**
20 01 08 – Biodegradeable Waste	23.78	Premier Proteins	Ballinasloe, Co. Galway	PO-45-05
20 01 39 – Plastics	14.70	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
20 01 39 – Plastics	3.84	AES Tullamore	Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly	W0104-02
20 01 39 – Plastics	16.72	AWS	Unit 2, Britannia Bus Pk., Point Plesant Ind, Est. Wallsend, Tyne & Wear	EA.WML/7327
20 01 39 – Plastics	188.72	Leinster Env.	Clermont Business Park, Haggardstown, Dundalk, Co. Louth	WP2008/06
20 02 01	12	BNM Kilberry	Kilberry, Co. Kildare	W0198-01
20 03 01C – Municipal Waste	14,399.65	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
20 03 01K – Municipal Waste	6,185.99	AES Tullamore	Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly	W0104-02
Grand Total	**51,145.94**			

4.0 RESOURCE AND ENERGY CONSUMPTION

4.1 Resource Consumption Summary

Resources consumed at the Kyletalesha Waste Transfer Station are recorded. During the recording period water usage on-site has been recorded (mains, not metered) 237,000 litres. Rainwater is captured and used for bin washing thought the 2010 period and 78,000 litres was used.

Road Diesel Consumption was 960,000 Litres and Green Diesel Consumption was 65,000 Litres. The Kerosene usage for the site during 2010 was 1,000 Litres. Also hydraulic and engine oil usage was recorded at 4,100 litres.

The total electrical consumption at the site was 69,350 kWh during the reporting period. During the same period Wastewater emissions for 2010 were 114,560 litres.

4.2 Energy Efficiency Audit Report Summary

To comply with Condition 7.1 of the Waste Licence an Energy Efficiency Audit Report was submitted to the EPA during 2009. In 2010, the findings of the report were implemented, where feasible.

4.3 Water Consumption

As indicate in Section 4.1, as a means of reducing water usage on-site rainwater is captures and used for bin washing. During the reporting period 78,000 litres was captured and used for this purpose.

4.4 Raw Materials Consumption & Waste Generation.

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.

Please refer to the objectives and targets 2011 for further proposals being developed to minimise raw material consumption and waste generation (Table 5.2).

5.0 ENVIRONMENTAL OBJECTIVES & TARGETS

5.1 Progress against Targets for 2010

Details on progress made against the Targets for 2010 are presented in Table 5.1.

Table 5.1:Progress against Targets for 2010	
Obtaining ISO 14001 certification	Achieved
Obtaining OHSAS 18001 certification	Achieved
Infrastructure upgrade (as per SEW submitted to Agency on the 24th Nov. 2009)	Incomplete
Internal Waste Awareness Campaign	Training provided and documented within doc. EPF17.1 on-site, e.g. litter & dust control, yard cleaning procedure, odour control etc.
Raise awareness with contractors/visitors of the Environmental Policy on site	Visitor, Contractor, HGV/LGV & Employee Induction Booklet EPF 11.3 (mandatory induction)
Reduce BMW to landfill by 1/7/10 as per EU landfill Directive	Achieved by the introduction of the Brown Bin system
Continued internal training & assessment of training needs 2010	Achieved – Documented within document EPF17.1 on-site
Raising domestic customer awareness of blue bin use with new label showing appropriate material to put in bin.	Achieved – Introduction of a sticker which displays the type of waste accepted within blue bins. Sent out in post to all domestic and commercial customers.
Restructuring of domestic collection routes, to minimise trucks.	Achieved and on-going. Use of Routeman (Software incorporating GPS and bin tagging) for maximizing collection vehicle efficiency.
Roll-out brown bin collection in Co. Laois	Achieved

5.2 Schedule of Objectives and Targets for 2011.

Table 5.2 Proposed Objectives & Targets for 2011				
Ref.	**Objective**	**Target**	**Timescale**	**Respons.**
1	Waste Minimisation	Re-use where possible materials used on site.	Ongoing	PH/AC/COB
		Minimise import of materials from off site	Ongoing	Team
2	Upkeep of Environmental Management System	Maintain EMS to ISO 14001 standard/certification	Ongoing	Team
		Implement ISO 9001 at the Facility	Ongoing	Team
		Maintain Policy for control of the office waste	Ongoing	PH/AC/COB
3	Raise awareness with contractors of Environmental Policy of the site	Contractors Induction	Ongoing	AC
4	Environmental Monitoring	Noise, Surface Water, Ground Water and Dust Monitoring	Dec-11	Technical Services
5	Environmental Training and Awareness	Continue internal training programme and assessment of training needs for all operational staff during 2011	Dec-11	Team
6	Review effectiveness of Nuisance Control measures	For: Litter dust, birds and vermin	Ongoing	Team
7	Review outstanding Energy Efficiency Audit recommendations	Assess recommendations and introduce where possible. Investigate and implement possible measures for the reduction of diesel consumption.	Dec-11	Team
8	Environmental Compliance	Review licence conditions outlined within W0194-02	Ongoing	EM/PH
9	Environmental Auditing	Carrying out audits of the sites outlets to establish environmental compliance	Ongoing	EM/SG/LC
10	Vehicle Records	Manvik to take over AES Fleet maintenance, ensure records are maintained on ViewWise	Dec-11	PH/COB
11	Roll out of Brown Bin	To continue the roll out of the 3 bin system	Ongoing	PH
12	Vehicle Safety/Enviro Procedures	Review the safety and environmental procedures in place in relation to vehicles	Sep-11	EM/AC
13	Vehicle Re-Routing	Re-routing of waste collection routes to improve efficiency	Dec-11	PH/COB

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, W0194-02. 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 Three times per year
3) Groundwater Bi-annually
4) Storm Water Bi-annually

6.1 Noise Monitoring Report Summary

In compliance with Schedule C4 of the Waste License, W0194-02, noise monitoring at the Kyletalesha Waste Transfer Station was undertaken. Monitoring was carried out on the 18th February 2010 (Report Ref. No. ECS3540).

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 are also shown 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 East corner of site, beside the portacabin.
N4	Boundary	South West corner of site, to the right of the entrance gate.
N5	Noise Sensitive Location	Private dwelling (Approx. 500m East of site).

Table 6.2 Noise Results 18th February 2010						
Location	**Duration (mins)**	**Time**	**LAeq dB**	**LA10 dB**	**LA90 dB**	**LAmax dB**
N1	30	10:40 – 12:10	57	59	54	70
N2	30	10:09 – 10:40	64	67	42	84
N3	30	9:35 – 10:06	59	61	49	80
N4	30	09:02 – 09:34	65	67	60	86
N5 (NSL)	30	11:17 – 11:48	55	54	42	87

Noise levels were monitored at five monitoring locations: four boundary locations and one noise sensitive location. The LA_{eq} levels recorded at the four boundary locations were 57 dB(A), 64 dB(A), 59 dB(A) and 65 dB(A), at the N1, N2, N3 and N4 monitoring locations respectively. The LA_{eq} recorded at the noise sensitive location N5 was 55 dB(A).

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.

It should be noted that all boundary locations were monitored within the boundary walls. The facility is surrounded by a 10ft high mass concrete wall on the north-west and south-western boundaries. It can be reasonably assumed that these barriers will significantly reduce noise emissions to surrounding environs.

The dominant source of noise detected at the NSL was passing traffic (cars, vans, jeeps and lorries). Activity from the AES facility was for the most part not audible from this location (only occasional reversing alarms faintly audible). The LAeq recorded (55 dB) does not exceed the EPA guideline limit. No tonal noise was detected at this monitoring location.

6.2 Ambient Monitoring Report Summary

In compliance with Schedule C.5 of the Waste License, W0194-02, dust monitoring at the Kyletalesha Waste transfer Station was undertaken. Monitoring was carried out three times during the reporting period.

There are three dust monitoring locations on site, and are detailed in Table 6.3 below and are also shown in Appendix 1.

Table 6.3 Dust Monitoring Locations

Monitoring Location	Description
D1	South eastern corner of the facility
D2	North western corner of facility
D4	Northern corner of the facility (beside entrance)

Three dust sample jars were installed for a 29 day period; 20th Jan. – 18th Feb (Round 1), for a 28 day period 24th May – 21st June (Round 2) and finally for a 31 day period 6th July – 6th August 2010 (Round 3). The results for the monitoring are presented in Table 6.4 below.

Table 6.4 Dust Monitoring Results

Report Ref.		ECS3540	ECS3646	ECS3701
Monitoring Location	Dust Depositional Limit	Deposition Rate 20th Jan-18th Feb Round 1	Deposition Rate 24th May-21st Jun Round 2	Deposition Rate 6th Jul-6th Aug Round 3
		($mg/m^2/day$)		
D1	350	163	**529**	**477**
D2	350	41	**595**	**1854**
D4	350	163	78	217

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

As can be seen in Table 6.4, all dust depositional results were well within the Waste License Limit (350 $mg/m^2/day$) for the 1st round of monitoring for 2010. However during the second and third round of monitoring, locations D1 and D2 exceeded the Waste License Limit.

It was concluded that exceedances at location D1 (beside facility entrance) was due to passing traffic on the nearby country road as well as traffic entering/exiting (3 meters) the AES facility. Small pieces of grit (sand etc.) from the road surface may become entrained in the air as a result of passing traffic giving rise to dust creation. This type of dust is typically heavy in nature, as does not tend to travel far due to gravitational force.

It was concluded that exceedances at location D2 were primarily due to the presence of green algae and also the presence of dead insects within the sample jars. 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.

6.3 Wastewater discharges to Groundwater monitoring Report Summary

In compliance with the requirements of Waste License W0194-02, an assessment of waste-water discharges following treatment prior to discharge from Kyletalesha Waste Transfer Station was taken.

There is one wastewater discharge monitoring location on-site, as detailed in Table 6.5 are also shown in Appendix.

Table 6.5 Wastewater Discharges to Groundwater Monitoring Location

Monitoring Location	Description
SE-1	Northern corner of facility

Table 6.6 Wastewater Discharges to Groundwater Monitoring Results.

Parameter	Result (Report Ref. ECS3540)
On-site visual assessment	Clear, no suspended solids
Odour	None
BOD (TCMP) mg/l	6
Ammonia mg/l as N	7.6

During 2010 the AES facility ceased using the Puraflow treatment tank. All waste water is now tankered off-site. As there a no longer any emissions to groundwater, it was not possible to take the second biannual waste-water discharge sample of 2010.

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

In compliance with the Schedule C.2 of the Waste License, W0194-02, an assessment of surface-water emissions from Kyletalesha Waste Transfer station was undertaken on a bi-annual basis.

Surface-water was collected from the four monitoring locations on-site as detailed in Table 6.7 and in Appendix 1.

Table 6.7 Surface-water monitoring locations

Ref.	Description
SW-1	Located beside Knackery
SW-6	Discharge point, between SW-1 & SW-2
SW-2	Located immediately downstream of weir and discharge point
SW-4	Located downstream of AES opposite entrance

Monitoring was conducted on the 20th January (Report Ref. ECS3540) and the 6th July 2010 (Report Ref. ECS3701), and the results are presented in Table 6.8. During the second round monitoring there was no sample available from the discharge point. This is due to the emission point been stoppered with an inflatable bung. All wastewater is now tankered off-site.

Table 6.8 Surface-water Monitoring Results								
Parameter	**SW-1** 20/1/10	**SW-1** 6/7/10	**SW-6** 20/1/10	**SW-6** 6/7/10	**SW-2** 20/1/10	**SW-2** 6/7/10	**SW-4** 20/1/10	**SW-4** 6/7/10
Report Ref	ECS3540	ES3701	ECS3540	ES3701	ECS3540	ES3701	ECS3540	ES3701
pH (pH units)	7.3	7.4	7.3	7.4	7.2	7.3	7.4	7.5
Conductivity (us/cm)	2,371	3,300	2,890	3,340	413	3,220	711	1,519
Visual insp.	Yellow, Some S.S Strong Odour	Pale Yellow, Some S.S No Odour	Yellow, Oily Surface, High S.S Slight Odour	Pale Yellow, Few S.S Faint Odour	Yellow, Oily Surface, some S.S No Odour	Pale Yellow, Some S.S Faint Odour	Yellow, oily surface, few S.S Strong Odour	Pale Yellow, Some S.S Faint Odour
BOD (mg/l)	31	5	40	4	<2	5	7	3
COD (mg/l)	130	119	222	115	112	115	108	125
Suspended Solids (mg/l)	40	17	71	14	<5	45	8	89
Oils, Fats, Greases (mg/l)	2	6	2	5	3	11	9	7
Ammonia (mg/l)	68	102	92	103	5.6	95	15	36
Total N (mg/l)	78	106	99	110	8	102	18	39
Total P (mg/l)	1.38	0.47	1.18	0.6	<0.05	0.55	0.12	0.69

6.5 Tank and Pipeline Testing & Inspection Reports

In accordance with the requirements of the Waste License (W0194-02), AES is required to conduct a Bund Integrity test as stipulated under Condition 6.9;

Condition 6.9 of the Waste License states;

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

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

6.6 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:

- To maintain ISO 14001 at the facility.
- To implement ISO 9001 at the facility.
- To maintain the policy for the control of office waste.

7.0 SITE DEVELOPMENT/INFRASTRUCTURAL WORKS

7.1 Current Infrastructure in Place

The facility is currently licensed to accept a maximum of 99,000 tonnes of waste per annum, (80, 000 tonnes of non-hazardous household waste, 3,000 tonnes of non-hazardous industrial sludges, 5,000 tonnes of hazardous waste (WEEE), 5,000 tonnes of C&D waste and 6,000 tonnes of sewage sludge).

7.2 Site Development Works during 2010 and Proposed for 2011.

Site Development works proposed for 2010 are on-going as evident in Table 5.2: Proposed Schedule of Objectives and Targets for 2011.

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 my 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

1. Mr. John Gavin complained to the EPA (Mr. Dermot Burke) after observing a discharge from the facility on the 5th of March 2010. A sample was taken and sent to Laois County Councils laboratory for analysis. The corrective action involved the blocking of the discharge pipe and all subsequent surface –water generated on site is to be tinkered off site.
2. The facility had one noise complaint on the 17th August 2010. This was in relation to waste collection trucks operating within Heathfield's Housing Estate too early on the morning of August 10th. Corrective action was taken and drivers were instructed to collect later in the morning at this housing estate. No further noise complaints were received from the residents.
3. Littering of a public road due to rubbish falling from the rear of a waste collection vehicle on the 23rd August 2010. Corrective action was taken and the driver was given a tool-box talk with relation to removing litter from the exterior of the trailer.
4. Complaint from Kildare County Council in relation to waste spillage at Stand House Rise, Newbridge, Co. Kildare on the 16th December. Corrective action was taken and the driver in question were advised to observe closely any waste that protrudes from RCV trucks also to report any lift/hopper defects to management.
5. Complaint from Kildare County Council in relation to waste spillage at Prosperous, Co. Kildare on the 6th October. Corrective action was taken and the driver was instructed to cover all trailers correctly before transporting waste.

9.2 Reported Incidents Summary

The facility had three notifiable incidents during the reporting period;
- Incidents notified to the Agency:
1. Quarter 1 Noise exceedance at N1, N2, N3, N4 o 18th Feb 2010
2. Quarter 2 Dust exceedance at D1, D2 from the 24th May to the 24th June 2010
3. Quarter 3 Dust exceedance at D1 D2 from the 6th July to the 6th August 2010.

9.3 Accident Prevention and Emergency Response

Condition 9.3 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 maintain 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:

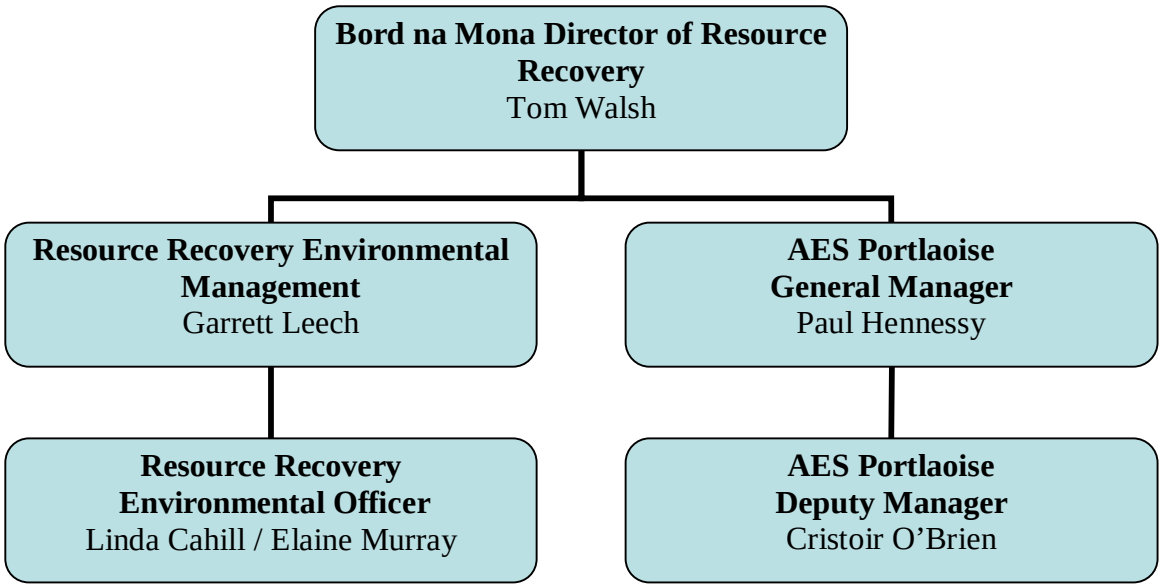
- EP-ERP-01_General Emergency Preparedness & Response.doc
- EP-ERP-02_Spill Clean Up Procedure.doc
- EP-ERP-03_Fire Explosion Procedure.doc
- EP-ERP-04_Malicious Damage Procedure.doc
- EP-ERP-05_Unforeseen Emergencies & Fugitive Emissions.doc

These documents are included in full in Appendix 2.

10.0 FACILITY MANAGEMENT

10.1 Managing Staffing Structure

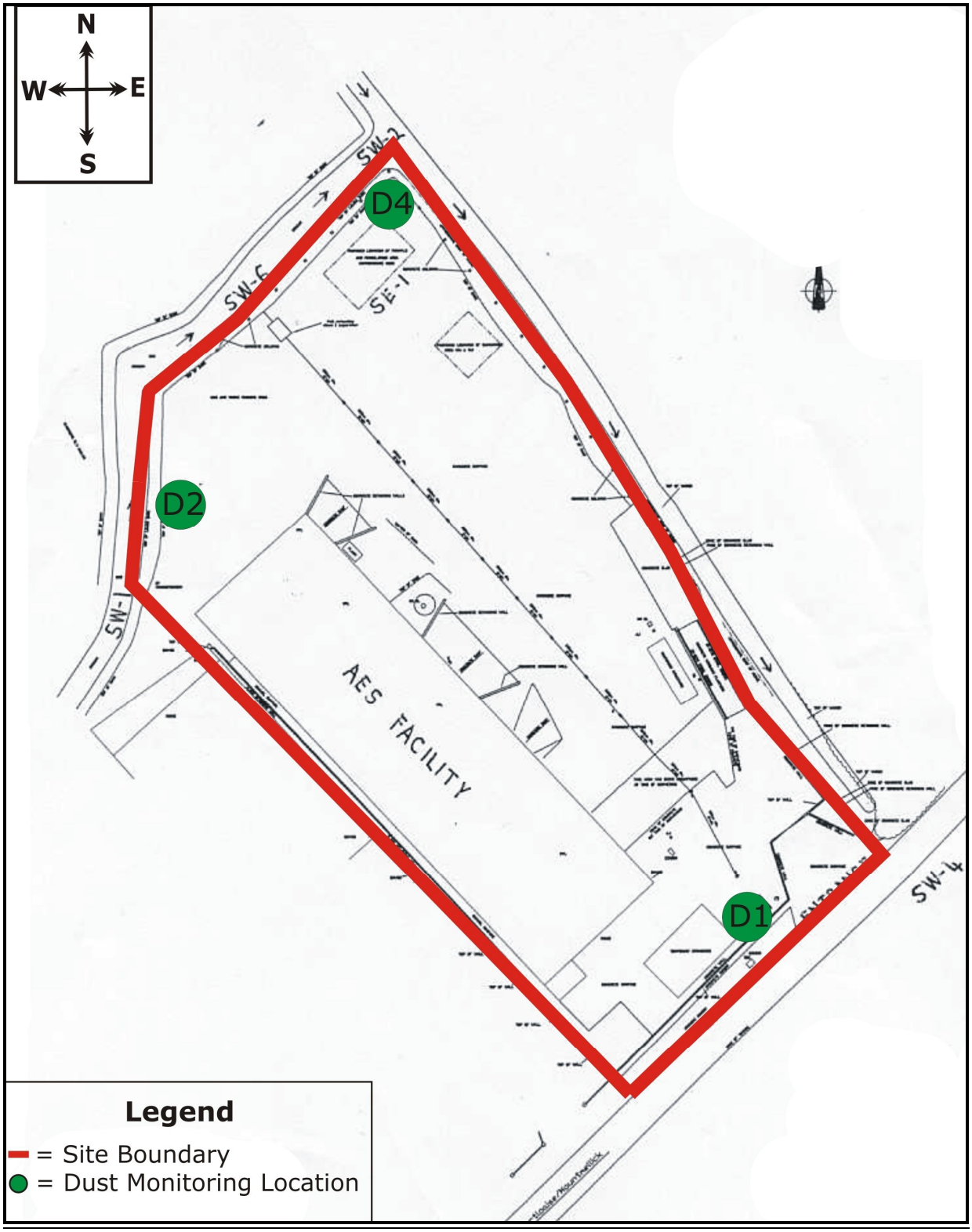
The management and staffing structure for the facility is presented in Figure 10.1

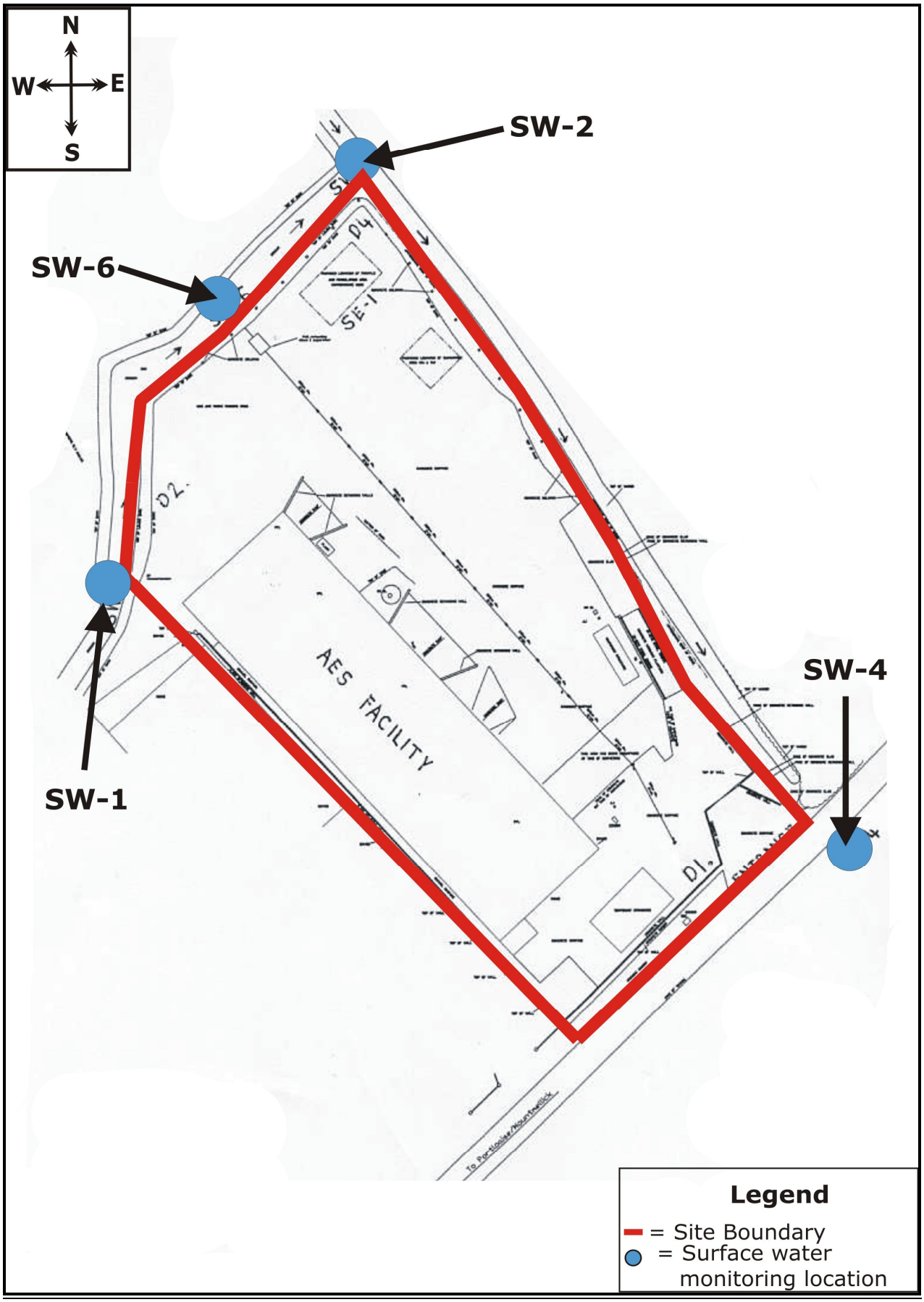


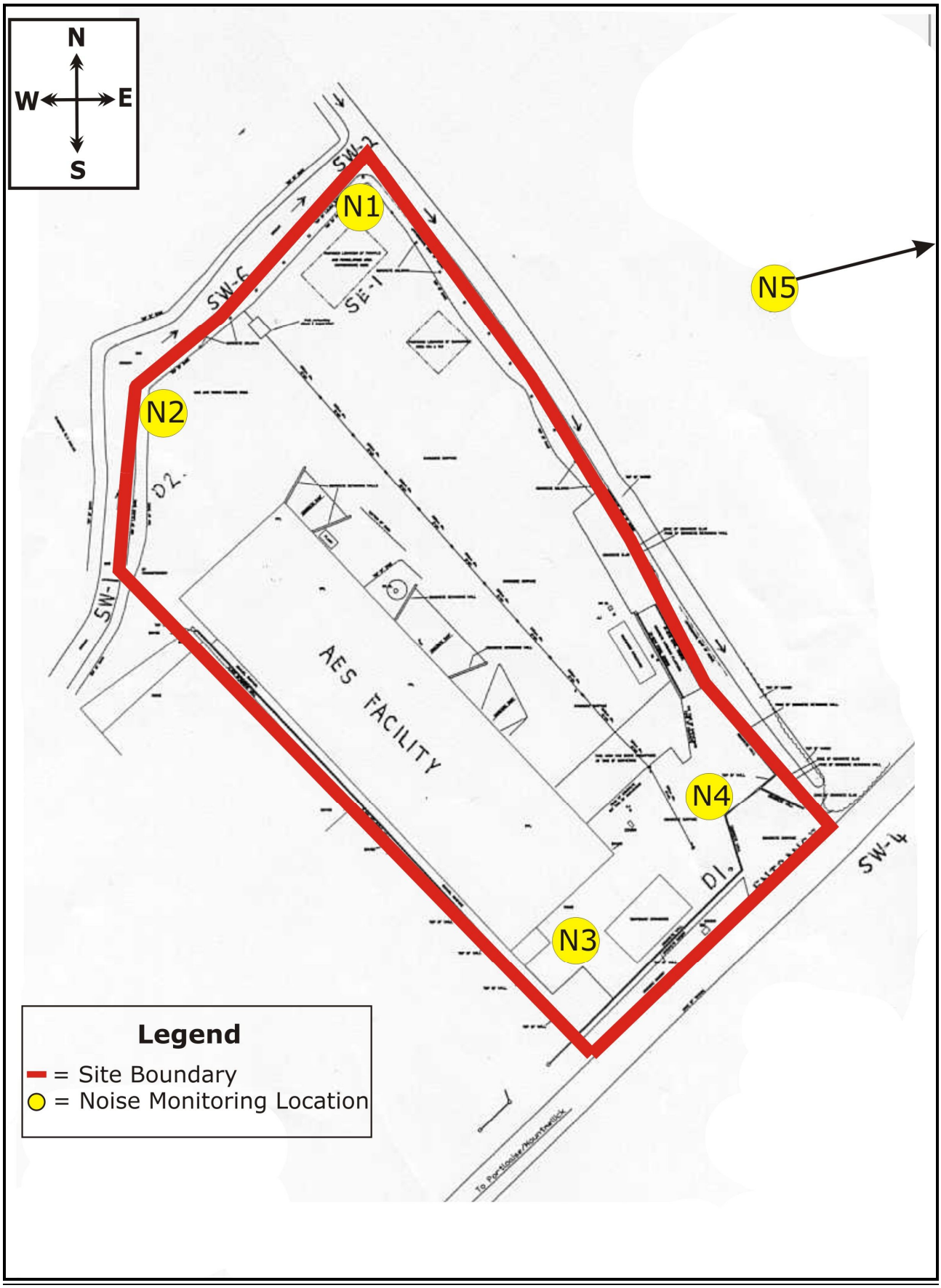
APPENDIX 1

Maps of Site Location & Monitoring Locations


N
W
E
S
Site Location
Clonreher
Rossleaghan
Castle
Kyle Br
Ballytegan
Borris Great
Derrygarran
Moate
49MP
Ratheven
Kilminchy
Ballyroan
R445
Pallas Cross Rds
Pallas Big
Maryborough
Clonroosk
Borris Little
Br.Ht. 3.00m
N80
Monevballytyrrell
Prison
Hosp
Fire Stn
Beladd
Ballymooney
51MP
Br.Ht. 4.37m
Br.Ht. 4.11m
Boghlone Br
Clonroosk Little
Govt Bldgs
FB
Portlaoise Ind Est
Aqueduct
Ballina
Boghlone
Summerhill or Aghnaharna
Kylekiproe
Conniberry Junction
PORTLAOISE
Port Laoise
Ridge of Maryborough
Downs
Kylegrove
52MP
Knockmay
LC
Clonminam
R445
M7
53MP
Clonboyne
Curriersbog
R426
R425
Rathleague
Bord na Mona Technical Services
Ordinance Survey Ireland Licence No.EN0035610
(C)Ordinance Survey Ireland Government of Ireland


N
W
E
S
D4
D2
D1
SW-1
SW-2
SW-4
SW-6
SE-1
AES FACILITY
Legend
= Site Boundary
= Dust Monitoring Location


N
W
E
S
SW-2
SW-6
SW-1
SW-4
AES FACILITY
SE-1
D4
D2
D1
To Portlaoise/Mountmellick
Legend
= Site Boundary
= Surface water monitoring location


N
W
E
S
N1
N2
N3
N4
N5
SW-2
SW-6
SE-1
SW-1
SW-4
D2
D1
AES FACILITY
Legend
= Site Boundary
= Noise Monitoring Location

APPENDIX 2

Accident Prevention & Emergency Response

Emergency Response Plan		Document: EP 5.0-ERP-01
Document Approved by: Site Manager	AES Portlaoise Emergency Response Plan	Revision: 0 Issue Date: 10/07/09 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 Portlaoise			
Service / Agency	**Address**	**Telephone Numbers**	**Fax / e-mail**
EPA Regional Inspectorate	Seville Lodge Callan Road Kilkenny	056-7796700	056-7796798 info@epa.ie
Laois County Council	Aras an Chontae, Portlaoise, Co. Laois	057-866400	057-822313
Southern Regional Fisheries Board	Anglesea Street Clonmel, Co. Tipperary	052-80055	052-23971 enquiries@srfb.ie
Eastern Regional Fisheries Board	15a Main Street, Blackrock, Co. Dublin	01-2787022	01-2787025 info@erfb.ie

Emergency Response Plan		Document: EP 5.0-ERP-01
Document Approved by: Site Manager	ADVANCED ENVIRONMENTAL SOLUTIONS IRELAND **AES Portlaoise** Emergency Response Plan	Revision: 0 Issue Date: 10/07/09 Page: Page 2 of 3
Title **General Emergency Preparedness & Response**		

Procedure:

1. An Emergency Plan is prepared and maintained by AES Portlaoise. This Plan details any emergency situation which could occur on site and the proposed response should this emergency occur. The Emergency Plan details procedures for the following occurrences:

Reference	Description
ERP 02	Spill Clean-up Procedure
ERP 03	Fire / Explosion Procedure
ERP 04	Malicious Damage Procedure
ERP 05	Unforeseen Emergencies

2. Should an emergency situation occur, the relevant response procedure documented within the Emergency Plan is implemented. Each procedure details the emergency situation, the proposed response should this emergency occur and the potential environmental impacts of this occurrence.

3. The Site Manager shall assume the role of Site Incident Controller, with responsibility for
   (i) assessing the scale of the incident
   (ii) informing emergency services
   (iii) directing rescue and fire-fighting operations.

   In the absence of the Site Manager, the Deputy Site Manager shall assume the role of Site Incident Controller.

4. Following an emergency, the Site Manager (or in his/her absence Deputy Site Manager) shall record the details of the incident. Environmental Incident Investigation and Reporting Form EPF 6.1 shall be completed which is located within the procedure for Environmental Incident Investigation and Reporting (EMS Environmental Procedure EP 6.0). Following the environmental incident, appropriate procedures shall be implemented accordingly i.e. Environmental Incident Investigation and Reporting Procedures EP 6.0, Environmental Non-

Conformance Procedures EP 7.0 and Environmental Corrective and Preventative Action Procedure EP 8.0.

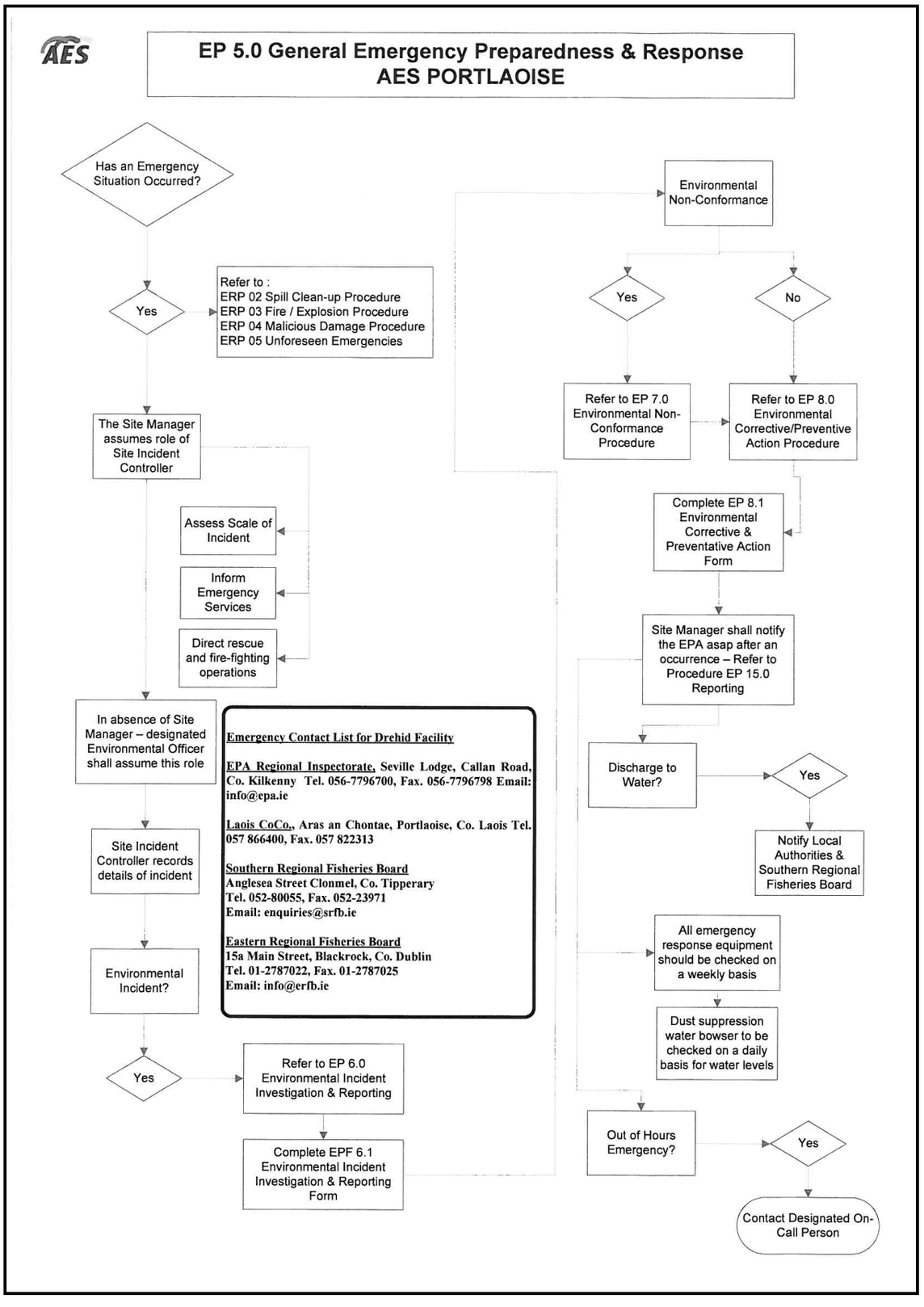
5. This procedure shall be reviewed by the Environmental Management team, annually or after the occurrence of an emergency situation. Additional procedures may be prepared as identified by environmental reviews/audits, environmental compliance monitoring reports, personnel during routine working hours or other communications which bring potential emergency situations to the attention of the Environmental Management Team.

6. The Site Manager shall notify the Environmental Protection Agency as soon as possible after the occurrence of an incident as per procedure EP 15.0 Reporting

7. In the case of any incident which relates to discharges to water, the Site Manager shall notify the Local Authorities and the Southern Regional Fisheries Board as soon as practicable after the incident

8. On a weekly basis, all emergency response equipment shall be checked to ensure it is provided in agreed quantities and in suitable working order.

9. In the case that an emergency situation arises outside the hours of operation, the contact details for the designated person on call are displayed on the Facility Notice Board at the entrance to the site.


EP 5.0 General Emergency Preparedness & Response
AES PORTLAOISE
Has an Emergency Situation Occurred?
Yes
Refer to :
ERP 02 Spill Clean-up Procedure
ERP 03 Fire / Explosion Procedure
ERP 04 Malicious Damage Procedure
ERP 05 Unforeseen Emergencies
The Site Manager assumes role of Site Incident Controller
Assess Scale of Incident
Inform Emergency Services
Direct rescue and fire-fighting operations
In absence of Site Manager – designated Environmental Officer shall assume this role
Site Incident Controller records details of incident
Environmental Incident?
Yes
Refer to EP 6.0 Environmental Incident Investigation & Reporting
Complete EPF 6.1 Environmental Incident Investigation & Reporting Form
Emergency Contact List for Drehid Facility
EPA Regional Inspectorate, Seville Lodge, Callan Road, Co. Kilkenny Tel. 056-7796700, Fax. 056-7796798 Email: info@epa.ie
Laois CoCo., Aras an Chontae, Portlaoise, Co. Laois Tel. 057 866400, Fax. 057 822313
Southern Regional Fisheries Board
Anglesea Street Clonmel, Co. Tipperary
Tel. 052-80055, Fax. 052-23971
Email: enquiries@srfb.ie
Eastern Regional Fisheries Board
15a Main Street, Blackrock, Co. Dublin
Tel. 01-2787022, Fax. 01-2787025
Email: info@erfb.ie
Environmental Non-Conformance
Yes
No
Refer to EP 7.0 Environmental Non-Conformance Procedure
Refer to EP 8.0 Environmental Corrective/Preventive Action Procedure
Complete EP 8.1 Environmental Corrective & Preventative Action Form
Site Manager shall notify the EPA asap after an occurrence – Refer to Procedure EP 15.0 Reporting
Discharge to Water?
Yes
Notify Local Authorities & Southern Regional Fisheries Board
All emergency response equipment should be checked on a weekly basis
Dust suppression water bowser to be checked on a daily basis for water levels
Out of Hours Emergency?
Yes
Contact Designated On-Call Person

Emergency Response Plan		Document: EP 05-ERP-02
Document Approved by: Site Manager	AES ADVANCED ENVIRONMENTAL SOLUTIONS IRELAND **AES Portlaoise** Emergency Response Plan	Revision: 0 Issue Date: 10/07/09 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 Portlaoise.

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 05-ERP-02
Document Approved by: Site Manager	AES ADVANCED ENVIRONMENTAL SOLUTIONS IRELAND **AES Portlaoise** Emergency Response Plan	Revision: 0 Issue Date: 10/07/09 Page: Page 2 of 4

Title Spill Clean up procedure

- Locate the nearest fire suppression system as appropriate; Dry powder extinguishers for ABC fires [wood, paper, textiles, liquid fuels and gases] Foam extinguishers for AB fires [wood, paper, textiles and liquid fuels] Carbon Dioxide [liquid fuel fires and electrical equipment].

- Note the wind direction and any possible sources of ignition i.e. naked lights, machinery, electrical fittings, and combustible material and remove them from the area.

3. Evacuate the area (for large spills if necessary)

   - The Facility Manger or any other designated person from the Emergency Response Team shall ensure that all personnel are evacuated in a calm, efficient manner. Staff should be instructed to walk briskly to their designated evacuation locations.

   - If flammable material is involved in the spill, isolate equipment and materials that may be affected.

   - If deemed necessary, the Site Manager or any other designated person from the Emergency Response Team shall instruct for the appropriate emergency services to be contacted.

4. The spillage must be contained using absorbent material, socks, booms or absorbent granules to create a secure dike. The Site Manager or any other designated person from the Emergency Response Team shall ensure that all appropriate personal protective equipment is worn [as detailed in the Material Safety Data Sheet for the spilled material(s)].

5. If the spillage emanated from a drum, position the drum so that the ruptured section is in an upwards direction, thereby preventing a further leakage.

6. Once the spill has been contained the liquid shall either be pumped, or removed into a container using non-spark shovels and labelled appropriately (contents, name and date).

Emergency Response Plan		Document: EP 05-ERP-02
Document Approved by: Site Manager	AES ADVANCED ENVIRONMENTAL SOLUTIONS IRELAND **AES Portlaoise** Emergency Response Plan	Revision: 0 Issue Date: 10/07/09 Page: Page 3 of 4

Title Spill Clean up procedure

7. Clean up Operation.
   - Use non-sparking shovels and brushes to sweep the spilled material into containers.
   - Start on the outside and work in towards the centre of the spill.
   - Do not mix different types of waste.
   - Drum the waste and seal the container or bag and double bag.
   - Label the waste with the destination name, appropriate hazard label and name of waste giving as much information as possible on contents, plus concentrations of constituents, etc.
   - If the spill occurred due to a damaged drum, place the ruptured drum into a salvage drum container, until disposal is arranged.
   - Decontaminate personnel by using the washing facilities.

8. Any waste material resulting from a spillage clean-up shall be dispatched to an appropriate facility for disposal and/or recovery. If the affected material is considered hazardous, it is stored in a container and collected as soon as possible by a certified hazardous waste disposal contractor.

9. Following an emergency, the Site Manager shall record details of the incident. Following a comprehensive investigation into the source of the emergency situation, a corrective action shall be formulated as per EP 10.0

10. Laois County Council and the EPA shall be informed if hazardous chemical or firewater infiltrates the drainage network.

Emergency Response Plan		Document: EP 05-ERP-02
Document Approved by: Site Manager	**AES Portlaoise** Emergency Response Plan	Revision: 0 Issue Date: 10/07/09 Page: Page 4 of 4

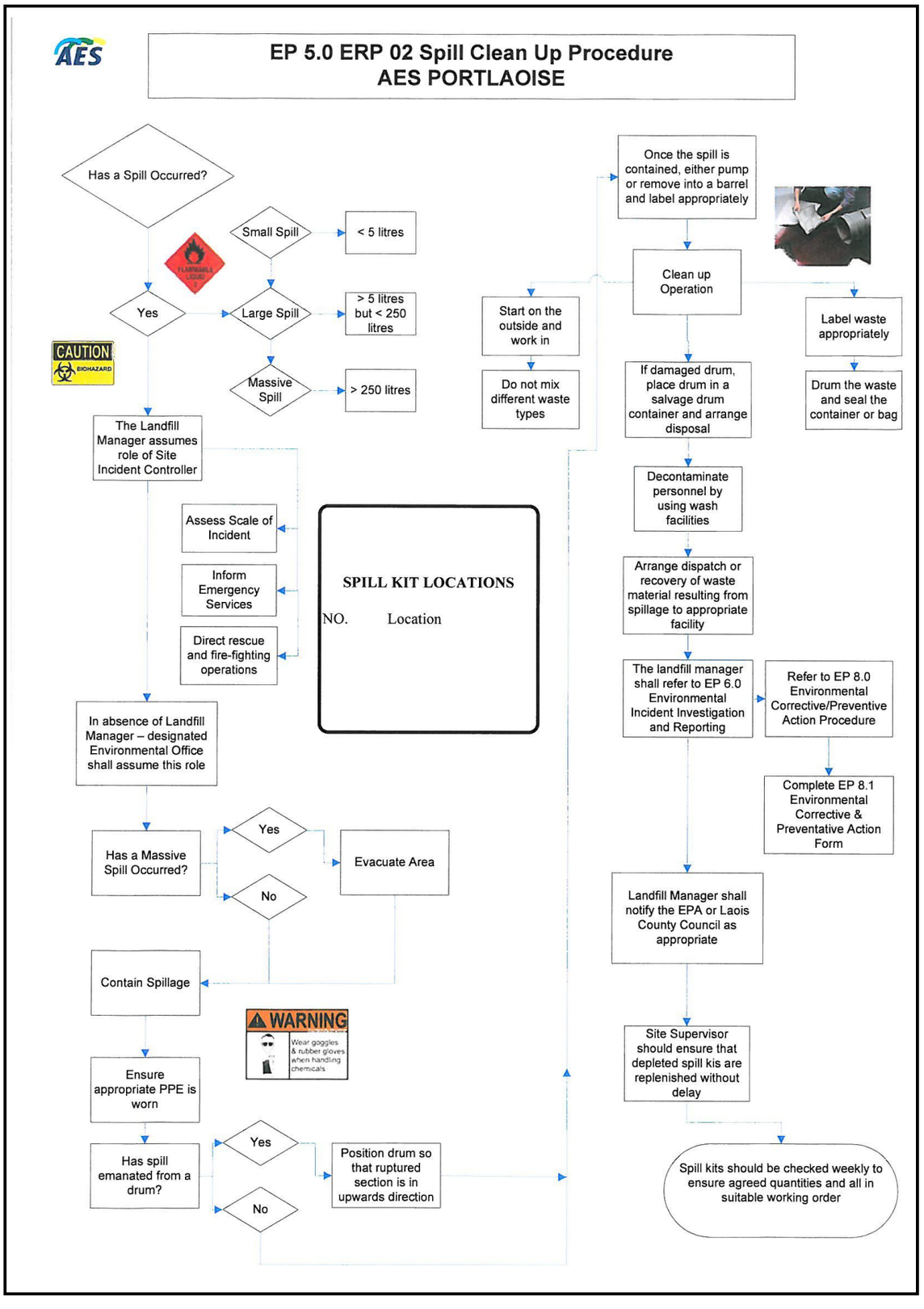
Title Spill Clean up procedure

11. Spill kits are located as follows:

Number	Location	Description
1.	Diesel Tank	Labelled Wheelie Bin
2.	Yard	Labelled Wheelie Bin
3	Waste Transfer Building	Labelled Wheelie Bin

12. The Site Manager must ensure that the resultant depleted spill kit (s) is /are replenished without delay. He must also ensure that replenishment stock is re-ordered straightaway.

13. On a weekly basis all spill response equipment shall be checked to ensure it is provided in agreed quantities and in suitable working condition.


EP 5.0 ERP 02 Spill Clean Up Procedure
AES PORTLAOISE
Has a Spill Occurred?
Yes
Small Spill
< 5 litres
Large Spill
> 5 litres but < 250 litres
Massive Spill
> 250 litres
CAUTION
BIOHAZARD
The Landfill Manager assumes role of Site Incident Controller
Assess Scale of Incident
Inform Emergency Services
Direct rescue and fire-fighting operations
In absence of Landfill Manager – designated Environmental Office shall assume this role
SPILL KIT LOCATIONS
NO. Location
Has a Massive Spill Occurred?
Yes
Evacuate Area
No
Contain Spillage
WARNING
Wear goggles & rubber gloves when handling chemicals
Ensure appropriate PPE is worn
Has spill emanated from a drum?
Yes
Position drum so that ruptured section is in upwards direction
No
Once the spill is contained, either pump or remove into a barrel and label appropriately
Clean up Operation
Start on the outside and work in
Do not mix different waste types
Label waste appropriately
Drum the waste and seal the container or bag
If damaged drum, place drum in a salvage drum container and arrange disposal
Decontaminate personnel by using wash facilities
Arrange dispatch or recovery of waste material resulting from spillage to appropriate facility
The landfill manager shall refer to EP 6.0 Environmental Incident Investigation and Reporting
Refer to EP 8.0 Environmental Corrective/Preventive Action Procedure
Complete EP 8.1 Environmental Corrective & Preventative Action Form
Landfill Manager shall notify the EPA or Laois County Council as appropriate
Site Supervisor should ensure that depleted spill kis are replenished without delay
Spill kits should be checked weekly to ensure agreed quantities and all in suitable working order

Emergency Response Plan		Document: EP 05-ERP-03
Document Approved by: Site Manager	AES ADVANCED ENVIRONMENTAL SOLUTIONS IRELAND **AES Portlaoise** Emergency Response Plan	Revision: 0 Issue Date: 10/07/09 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 Portlaoise.

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 role 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 at reception and within the site 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
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.

7. If the fire can be safely isolated, locate the nearest fire suppression system as appropriate; Dry powder extinguishers for ABC fires [wood, paper, textiles, liquid fuels and gases] Foam extinguishers for AB fires [wood, paper, textiles and liquid fuels] Carbon Dioxide [liquid fuel fires and electrical equipment]. Only small localised fires should be extinguished in this manner.

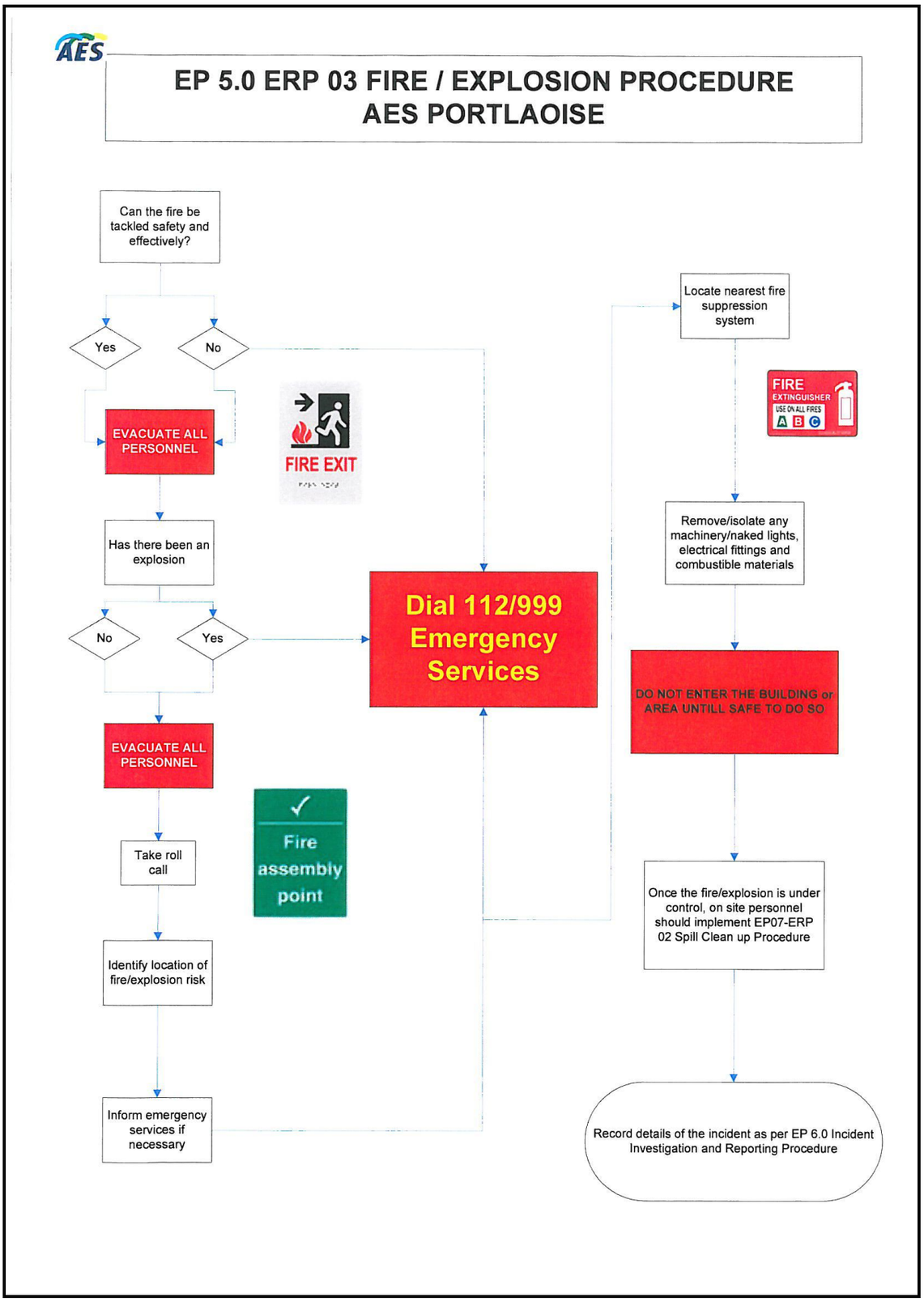
8. Note the wind direction and any possible sources of ignition i.e. naked lights, machinery, electrical fittings, and combustible material and remove them from the area.

9. Personnel shall not re-enter buildings unless the Site Manager/Fire Officer deems it safe to do so.

10. Once the fire has been extinguished or the explosion controlled on site, personnel shall complete a clean-up operation as per EP05-ERP-02 using the available resources.

11. Effected areas shall be checked thoroughly in order to ensure that the fire is quenched. If the affected material is considered hazardous, it is stored in a container and collected as soon as possible by a certified hazardous waste disposal contractor.

12. Following an emergency, the Site Manager, or other designated responsible person shall record details of the incident as per EP 6.0 Incident Investigation Procedure


EP 5.0 ERP 03 FIRE / EXPLOSION PROCEDURE
AES PORTLAOISE
Can the fire be tackled safety and effectively?
Yes
No
EVACUATE ALL PERSONNEL
FIRE EXIT
Has there been an explosion
No
Yes
Dial 112/999 Emergency Services
EVACUATE ALL PERSONNEL
Fire assembly point
Take roll call
Identify location of fire/explosion risk
Inform emergency services if necessary
Locate nearest fire suppression system
FIRE EXTINGUISHER
USE ON ALL FIRES
A B C
Remove/isolate any machinery/naked lights, electrical fittings and combustible materials
DO NOT ENTER THE BUILDING or AREA UNTILL SAFE TO DO SO
Once the fire/explosion is under control, on site personnel should implement EP07-ERP 02 Spill Clean up Procedure
Record details of the incident as per EP 6.0 Incident Investigation and Reporting Procedure

Emergency Response Plan		Document: EP 5.0-ERP-04
Document Approved by: Site Manager	AES ADVANCED ENVIRONMENTAL SOLUTIONS IRELAND **AES Portlaoise** Emergency Response Plan	Revision: 0 Issue Date: 10/07/09 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 Portlaoise.

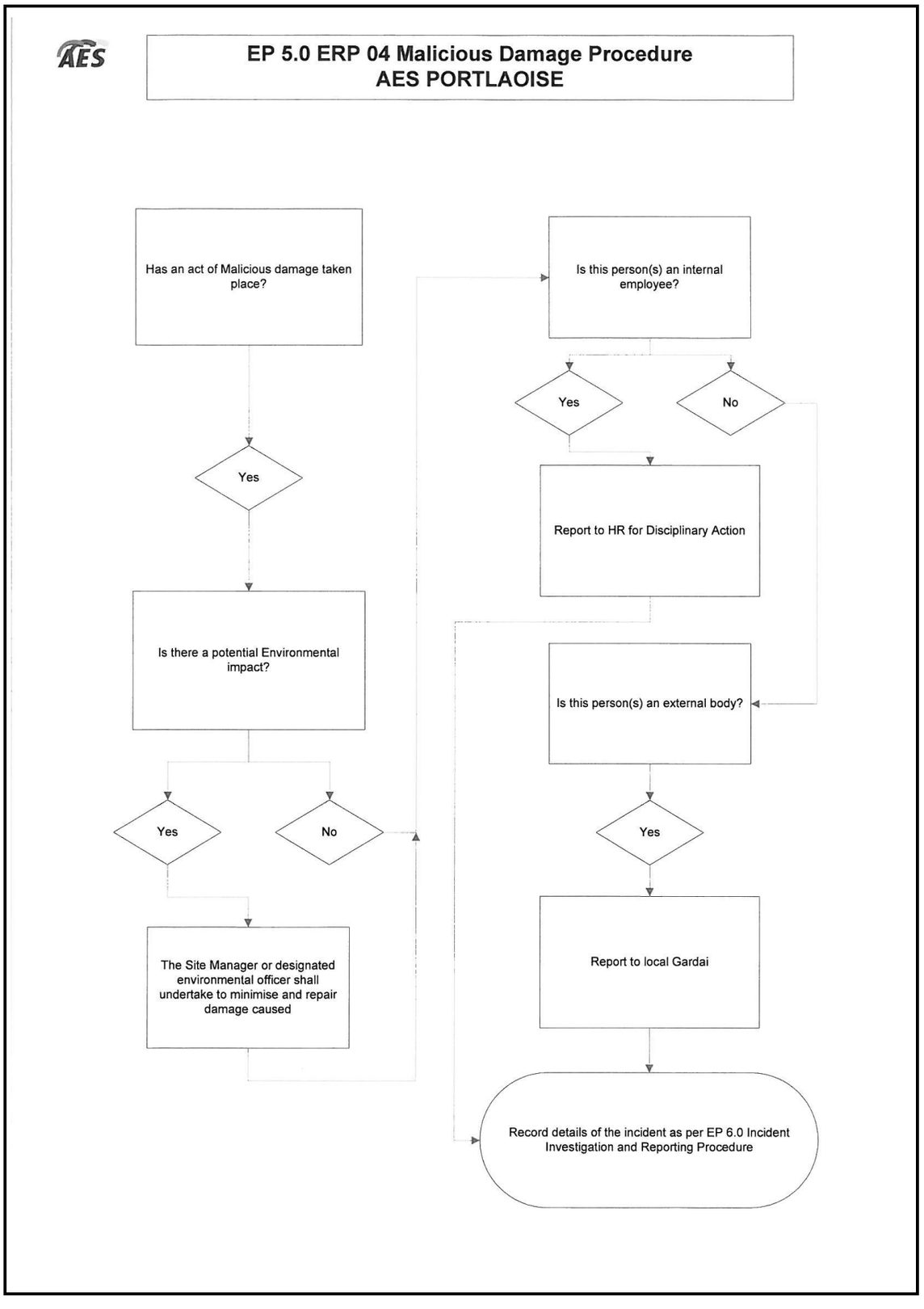
Procedure:

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.


EP 5.0 ERP 04 Malicious Damage Procedure
AES PORTLAOISE
Has an act of Malicious damage taken place?
Yes
Is there a potential Environmental impact?
Yes
No
The Site Manager or designated environmental officer shall undertake to minimise and repair damage caused
Is this person(s) an internal employee?
Yes
No
Report to HR for Disciplinary Action
Is this person(s) an external body?
Yes
Report to local Gardai
Record details of the incident as per EP 6.0 Incident Investigation and Reporting Procedure

Emergency Response Plan		Document: EP 5.0-ERP-05
Document Approved by: Site Manager	AES ADVANCED ENVIRONMENTAL SOLUTIONS IRELAND **AES Portlaoise** Emergency response Plan	Revision: 1 Issue Date: 10/07/09 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 Portlaoise.

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, the Weighbridge Office and the Site Managers 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.

Emergency Response Plan		Document: EP 5.0-ERP-05
Document Approved by: Site Manager	AES ADVANCED ENVIRONMENTAL SOLUTIONS IRELAND **AES Portlaoise** Emergency response Plan	Revision: 1 Issue Date: 10/07/09 Page: Page 2 of 2

Title Unforeseen Emergencies and Fugitive emissions

6. In the event the Emergency Services are called, ERT will cordon off the area and ensure emergency services access is clear to the incident site.

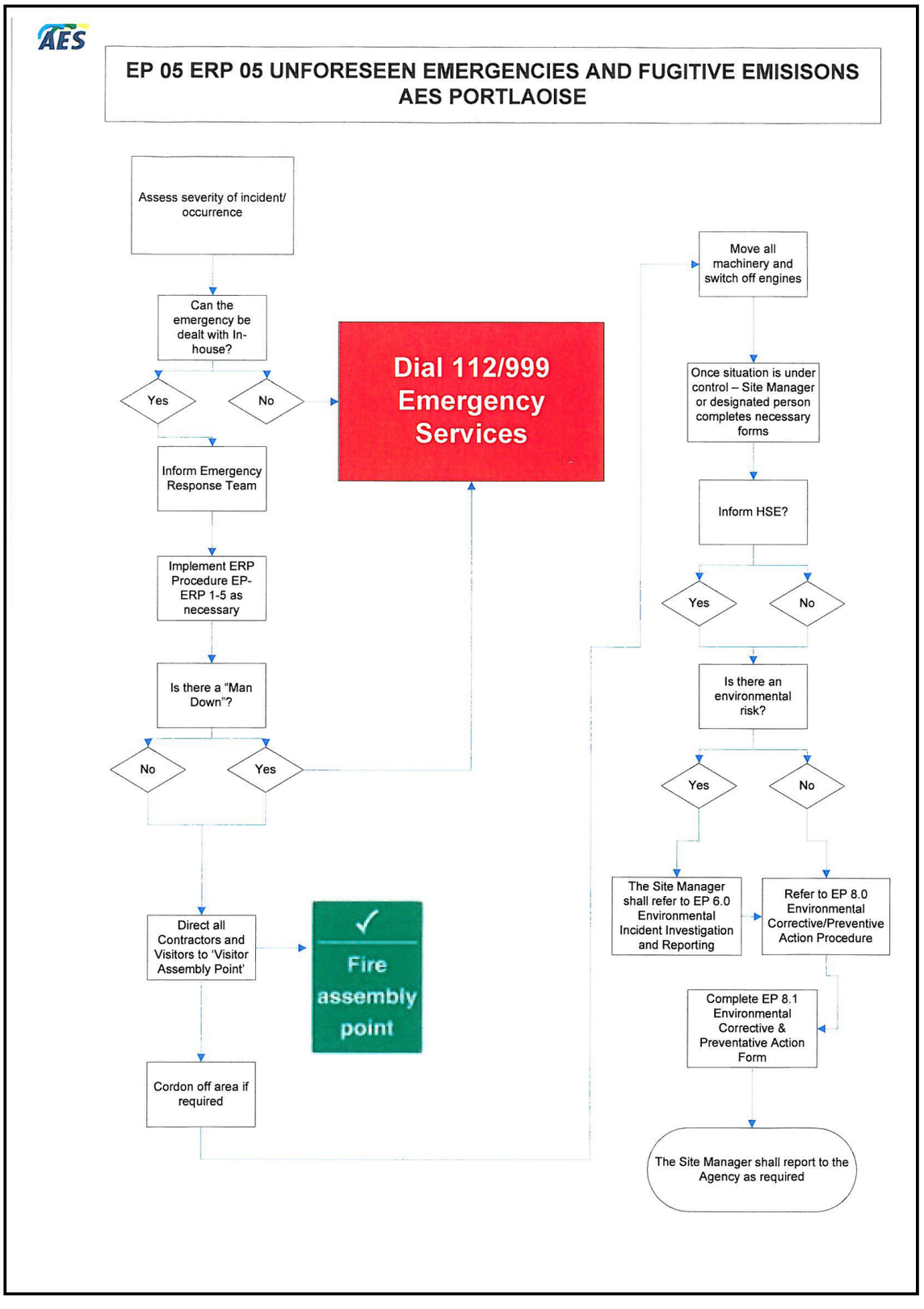
7. Move all machinery not involved clear of the incident and switch engines off.

8. Once the situation is under control and has been deemed safe by the Site Manager or most senior member of management on site then the relevant report forms must be completed and the HSA informed where relevant.

9. In the event that the incident gives rise to an emission the Site Manager and the Emergency Response Team shall immediately
   - Isolate the source of any such emission
   - Carry out an immediate investigation to identify the nature, source and cause of the incident and any emission arising there from
   - Evaluate the environmental pollution if any caused by the incident
   - Identify and execute measures to minimise the emissions or malfunction and the effects thereof

6. Following an emergency, the Site Manager, or other designated responsible person shall record details of the incident as per procedure EP 6.0 Environmental Incident Investigation and Reporting. The Site Manger shall also identify and put in place measures to avoid reoccurrence and put in place any other appropriate remedial action. These corrective actions shall be documented as per procedure EP 8.0 Corrective and Preventive Action Procedure.

7. The Site Manager shall provide a proposal to the Agency for its agreement within one month of the incident occurring or as otherwise agreed by the Agency.


EP 05 ERP 05 UNFORESEEN EMERGENCIES AND FUGITIVE EMISISONS
AES PORTLAOISE
Assess severity of incident/ occurrence
Can the emergency be dealt with In-house?
Yes
No
Dial 112/999 Emergency Services
Inform Emergency Response Team
Implement ERP Procedure EP-ERP 1-5 as necessary
Is there a "Man Down"?
No
Yes
Direct all Contractors and Visitors to 'Visitor Assembly Point'
Fire assembly point
Cordon off area if required
Move all machinery and switch off engines
Once situation is under control – Site Manager or designated person completes necessary forms
Inform HSE?
Yes
No
Is there an environmental risk?
Yes
No
The Site Manager shall refer to EP 6.0 Environmental Incident Investigation and Reporting
Refer to EP 8.0 Environmental Corrective/Preventive Action Procedure
Complete EP 8.1 Environmental Corrective & Preventative Action Form
The Site Manager shall report to the Agency as required

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	Advanced Environmental Solutions (Ireland) Ltd.
Facility Name	Advanced Environmental Solutions (Ireland) Ltd
PRTR Identification Number	W0194
Licence Number	W0194-02

Waste or IPPC Classes of Activity

No.	class_name
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
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.
3.6	Biological treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1. to 10. of this Schedule.
4.11	Use of waste obtained from 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.
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
4.9	Use of any waste principally as a fuel or other means to generate energy.

Address 1	Kyletalesha & Kyleclonhobert
Address 2	Portlaoise
Address 3	County Laois
Address 4	
Country	Ireland
Coordinates of Location	-8.5582 53.8838
River Basin District	IEGBNISH
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Elaine Murray
AER Returns Contact Email Address	elaine.murray@bnm.ie
AER Returns Contact Position	Environmental Officer
AER Returns Contact Telephone Number	045-439464
AER Returns Contact Mobile Phone Number	087-6570234
AER Returns Contact Fax Number	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 ?	

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities on this sheet in Tonnes

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 Adress of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	15 01 01	No	133.09	Baled Cardboard	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	643.8	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 02	No	69.31	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	97.7	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 03	No	1583.35	wooden packaging	R13	M	Weighed	Offsite in Ireland	Drehid Waste Management Facility,W0201-03	Killinagh Upper,Carbury,Co. Kildare,.,Ireland		
Within the Country	15 01 03	No	169.0	wooden packaging	R13	M	Weighed	Offsite in Ireland	OToole Composting,WP01/07	Ballintrane,Fennagh,Co. Carlow,.,Ireland		
Within the Country	15 01 03	No	1664.16	wooden packaging	R13	M	Weighed	Offsite in Ireland	Ormonde Organics,W0237-01	Killoween,Portlaw,Co. Kilkenny,.,Ireland		
Within the Country	15 01 03	No	313.6	wooden packaging	R13	M	Weighed	Offsite in Ireland	Thorntons Recycling Ltd.,W044-02	Killeen Rd.,Ballyfermot,Dublin 10,.,Ireland		
Within the Country	15 01 03	No	177.72	wooden packaging	R13	M	Weighed	Offsite in Ireland	Erasco,W0211-01	Foxhole,Youghal,Co. Cork,.,Ireland		
Within the Country	15 01 03	No	17.78	wooden packaging	R13	M	Weighed	Offsite in Ireland	B.Downey,.	Tulla road,Co. Kilkenny,.,.,Ireland		
Within the Country	15 01 03	No	19.68	wooden packaging	R13	M	Weighed	Offsite in Ireland	Conroy Recycling Ltd,.	Sonna,Mullingar,Co. Westmeath,.,Ireland		
Within the Country	15 01 04	No	2.62	metallic packaging	R13	M	Weighed	Offsite in Ireland	MSM Reccling,W0079-01	Unit 41,Cookstown Industrial Estate,Tallagh Dublin 24,.,Ireland		
Within the Country	15 01 06	No	0.64	mixed packaging	R13	M	Weighed	Offsite in Ireland	AES Tullamore,W0104-02	Cappincur Ind. Est.,Daingean Rd. Tullamore ,Co. Offaly,.,Ireland		
To Other Countries	15 01 07	No	1347.08	glass packaging	R13	M	Weighed	Abroad	Glassdon Recycling Ltd.,LN/08/103	52 Creagh Road,Toomebridge,Co. Antrim,.,Ireland		
Within the Country	16 01 03	No	13.86	end-of-life tyres	R13	M	Weighed	Offsite in Ireland	Crumb Rubber,DC/08/1136/01	Mooretown,Dromiskin,Dunda lk Co. Louth,.,Ireland		
Within the Country	16 03 04	No	0.88	inorganic wastes other than those mentioned in 16 03 03	D1	M	Weighed	Offsite in Ireland	Drehid Waste Mgt Facility,W0201-03	Killinagh Upper,Carbury,Co. Kildare,.,Ireland		
Within the Country	17 01 02	No	47.9	bricks	D1	M	Weighed	Offsite in Ireland	Drehid Waste Mgt. Facility,W0201-03	Killinagh Upper,Carbury,Co. Kildare,.,Ireland		
Within the Country	17 01 07	No	1858.36	mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	D1	M	Weighed	Offsite in Ireland	Drehid Waste Mgt Facility,W0201-03	Killinagh Upper,Carbury,Co. Kildare,.,Ireland		
Within the Country	17 02 01	No	16.72	wood	D1	M	Weighed	Offsite in Ireland	Drehid Waste Mgt. Facility,W0201-03	Killinagh Upper,Carbury,Co. Kildare,.,Ireland		
Within the Country	17 02 01	No	168.56	wood	R13	M	Weighed	Offsite in Ireland	Ormonde Organics,W0237-01	Killoween,Portlaw,Co. Kilkenny,.,Ireland		
Within the Country	17 02 01	No	41.66	wood	R13	M	Weighed	Offsite in Ireland	Thorntons Recycling Ltd.,W044-02	Killeen Rd.,Ballyfermot,Dublin 10,.,Ireland		
Within the Country	**17 02 01**	**No**	55.12	wood	R13	M	Weighed	Offsite in Ireland	Erasco,W0211-01	Foxhole,Youghal,Co. Cork,.,Ireland		
Within the Country	17 02 01	No	75.24	wood	R13	M	Weighed	Offsite in Ireland	B.Downey,.	Tulla road,Co. Kilkenny,.,.,Ireland		
Within the Country	17 02 01	No	27.64	wood	R13	M	Weighed	Offsite in Ireland	Conroy Recycling Ltd,.	Sonna,Mullingar,Co. Westmeath,.,Ireland		
Within the Country	17 04 07	No	178.36	mixed metals	R13	M	Weighed	Offsite in Ireland	MSM Recycling,W0079-01	Unit 41,Cookstown Industrial Estate,Tallagh Dublin 24,.,Ireland		

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/C/E	Method Used					
Within the Country	17 04 07	No	505.79	mixed metals	R13	M	Weighed	Offsite in Ireland	One 51 recycling,.	Unit 128/129,Shannon Industrial Est. Shannon ,Co. Clare,.,Ireland		
Within the Country	17 08 02	No	7.8	gypsum-based construction materials other than those mentioned in 17 08 01	R13	M	Weighed	Offsite in Ireland	Gypsum Recycling,WMP238/006	Millenium Hse.,Main St. Tullamore,Co. Offaly,.,Ireland		
Within the Country	19 12 09	No	9544.72	minerals (for example sand, stones)	D1	M	Weighed	Offsite in Ireland	Drehid Waste Mgt. Facility,W0201-03	Killinagh Upper,Carbury,Co. Kildare,.,Ireland		
Within the Country	19 12 12	No	6142.94	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	Drehid Waste Mgt. Facility,W0201-03	Killinagh Upper,Carbury,Co. Kildare,.,Ireland		
Within the Country	19 12 12	No	2904.74	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	Crag Avenue,Clondalkin Ind. Est.,Dublin 22,.,Ireland		
Within the Country	20 01 08	No	2422.22	biodegradable kitchen and canteen waste	R13	M	Weighed	Offsite in Ireland	AES Navan,W0131-02	Proudstown Road,Navan,Co. Meath,.,Ireland		
Within the Country	20 01 08	No	48.5	biodegradable kitchen and canteen waste	R13	M	Weighed	Offsite in Ireland	O'Toole Composting,WP01/07	Ballintrane,Fennagh,Co. Carlow,.,Ireland		
Within the Country	20 01 08	No	23.78	biodegradable kitchen and canteen waste	R13	M	Weighed	Offsite in Ireland	Premier Proteins,PO-45-05	Ballinasloe,Co. galway,.,.,Ireland		
Within the Country	20 01 39	No	14.7	plastics	R13	M	Weighed	Offsite in Ireland	Drehid Waste Mgt. Facility,W0201-03	Killinagh Upper,Carbury,Co. Kildare,.,Ireland		
Within the Country	20 01 39	No	3.84	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	16.72	plastics	R13	M	Weighed	Offsite in Ireland	AWS,EA WML/7327	Unit 2 Britannia Business Pk.,Point Plesant Ind. Est. Wallsend,Tyne & Wear,.,United Kingdom		
Within the Country	20 01 39	No	188.72	plastics	R13	M	Weighed	Offsite in Ireland	Leinster Environmental,WP2008/06	Clermont Business Pk.,Haggardstown Dundalk,Co. Louth,.,Ireland		
Within the Country	20 02 01	No	14399.65	biodegradable waste	D1	M	Weighed	Offsite in Ireland	Drehid Waste Mgt. Facility,W0201-03	Killinagh Upper,Carbury,Co. Kildare,.,Ireland		
Within the Country	20 02 01	No	12.0	biodegradable waste	R13	M	Weighed	Offsite in Ireland	Bord na Mona Kilberry,W0198-01	Killinagh Upper,Carbury,Co. Kildare,.,Ireland		
Within the Country	20 03 01	No	6185.99	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Bord na Mona Kilberry,W0198-01	Killinagh Upper,Carbury,Co. Kildare,.,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 waste summary data & percentage change