

# **EPA Application Form**

9.1 - Environmental Management Techniques -

## Attachment

**Organisation Name:** 

Application I.D.:

Advanced Environmental Solutions (Ireland) Ltd.

For inspection Period

LA001502

## Amendments to this Application Form Attachment

Version No.	Date	Amendment since previous version	Reason
V.1.0	July 2017	N/A	Online application form attachment
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## 9 Environmental Management Techniques<sup>1</sup>

#### **9.1.** Accident Prevention Measures

#### Measures to prevent accidental emissions and liabilities

Incidents and accidents are unplanned events. Emissions from incidents and (major) accidents usually occur within a relatively short time frame but with greater intensity than under normal operating conditions. Incidents such as fire or fuel spillages can result in liabilities such as contaminated soil and groundwater. Proactive risk management reduces the potential for an incident.

Abnormal operating conditions must be managed without endangering human health and harming the environment, and in particular without risk to water, air, soil, plants or animals, without causing a nuisance through noise or odours, and without adversely affecting the countryside or places of special interest.

The applicant must firstly undertake a risk assessment in accordance with EPA guidance on assessing and costing environmental liabilities. Having identified the key risks, the applicant should populate the following table with the measures to be taken to treat the key risks, e.g., bunding, integrity testing, fire prevention, etc.

The range of measures is dependent on the complexity of the site. Pollution prevention measures may, inter alia, include the following information:

- Conclusions on BAT set out in the EU Reference document on BAT on emissions from storage such as a safety management system; corrosion prevention measures on tanks, etc.
- Details of storage of all raw materials, products and wastes such as segregation, labelling, designation and impervious surface;
- Details of spill or emergency containment measures and structures such as bunds, high level alarms, absorbent materials;
- Details of fire detection and fire-water retention facilities in the event of emergencies or other measures to contain fire-water;
- Details of transport of material within the site, solid, liquid or sludge transported by pipe, vehicle or conveyor; etc.,
- The Agency has published a guidance document on Fire-Water Retention Facilities and on the Storage and transfer of materials.

<sup>&</sup>lt;sup>1</sup> This part of the form collects information on environmental management at the installation/ facility. It seeks to understand the maturity of the management system in terms of knowledge of abnormal operating conditions, prevention and early detection measures and emergency response procedures. The level of detail required in this part of form relates to the environmental risk posed.

Describe in the table below existing and/or proposed measures, including emergency procedures, to minimise the impact on the environment of an accidental emission or spillage. (This table should include the measures to be taken under abnormal operating conditions, including start-up, shutdown, leaks, malfunctions, breakdowns and momentary stoppages that will demonstrate that any emission arising will not cause significant environmental pollution)<sup>2</sup>.

	Surveillance Measures								
Measure	Description	Frequency of Surveillance	Method / Standard						
Accident Prevention Plan	Identifies the main hazards that may arise at the site		Documented Procedure						
Fire and Emergency Response Procedure	Identifies the actions to be taken in the event of and emergency		Documented Procedure						
Odour Surveys	Carried out by installation staff when required								
Firewater Retention Risk Assessment	Assesse the available retention capacity for firewater generated in the response to a fire		Report						
Fire Prevention Plan	Identifies measures to prevent fires and the appropriate response actions		Report						
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<sup>&</sup>lt;sup>2</sup> Information relating to the integrity, impermeability and recent testing or pipes, tanks and bund areas should be included.



Outline what provisions have been made to ensure an adequate response to emergency situations outside of normal working hours, i.e., during night-time, weekends and holiday periods (attach additional pages to this document if required):

In the event that an emergency occurs outside of normal operational hours, contact details for the designated person on call are displayed on the Notice Boards at the entrance to the installation.

#### Soil Monitoring Points Not Applicable

Periodic monitoring of soil and groundwater is required having regard to the possibility of soil and groundwater contamination of the site<sup>3</sup>.

Complete the table below with details of soil monitoring locations and in particular where a baseline report has been/is required in accordance with Section Deving to married

86B	of the EPA Act 1992 as amended		. Durch				
Is periodic soil monitoring proposed at the installation/facility? (Yes/No): 15 periodic soil monitoring proposed at the installation/facility? (Yes/No): 15 periodic soil monitoring proposed at the installation/facility?							
	Soil Monitoring Point Code	Monitoring Point Grid Ref.					
	Son Monitoring Point Code	Easting <sup>4</sup>	Con <sup>5®</sup> Northing <sup>5</sup>				

<sup>3</sup> Inherent in the monitoring of soil and groundwater is accepting the possible necessity for remediation of the soil / groundwater. Regular monitoring of soil and groundwater provides an early detection of any contaminations.

<sup>4</sup> Six Digit GPS Irish National Grid Reference

<sup>5</sup> Six Digit GPS Irish National Grid Reference



#### Soil Parameters Not applicable

Complete the table below with details of soil monitoring parameters (where a baseline report is required in accordance with Section 86B of the EPA Act 1992 as amended). (If different parameters are associated with different monitoring points this should also be identified in the table below.)

Parameter	Unit	Trigger Level	How was the trigger level determined?	Proposed Monitoring Frequency	Sample Method	Analysis Method / Technique
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			other			
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			ation et re			
			HSPC ON			
			FORME			
			ato			
*add rows to the table as necessary			Consert			



Yes

#### Groundwater Monitoring Points

Based on the assessment(s) carried out previously or as part of this licence application, complete the table below with summary details of the groundwater monitoring points.

Is groundwater monitoring proposed at the installation/facility? (Yes/No):

Monitoring Doint Code	Monitoring Po	oint Grid Ref.	
Monitoring Point Code	Easting <sup>6</sup>	Northing <sup>7</sup>	
GW-1	235683	225122 225243 225156	
GW-2	235717	225243	
GW-3	235648	225156	13. 2
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			urpequite
		Dection N	ý -
		cot insent	
		S COP	
		Cor	

<sup>&</sup>lt;sup>6</sup> Six Digit GPS Irish National Grid Reference

<sup>&</sup>lt;sup>7</sup> Six Digit GPS Irish National Grid Reference



#### **Groundwater Parameters**

Complete the table below with summary details of the groundwater parameters. (If different parameters are associated with different monitoring points this should be identified in the table below.)

Parameter	Unit	Trigger Level	How was the trigger level determined?	Proposed Monitoring Frequency	Sample Method	Analysis Method / Technique
рН	pH unit	N/A		Quarterly		
Temperature	°C			Quarterly		
Electrical Conductivity	mS/cm		ر». د	Quarterly		
Total Ammonium as N	mg/l		For inspection purpose only any other type.	Quarterly		
Diesel Range Organics	mg/l		MY any o	Quarterly		
VOCs	μg/l		rose for	Annually		
Chloride	mg/l		an Purte on the	Annually		
Mercure	mg/l		Sectome	Annually		
Sulphate	mg/l		Forming	Annually		
Total Organic Carbon	mg/l		5-09-	Annually		
Arsenic	mg/l			Annually		
Fluoride	mg/l	C.		Annually		
COD	mg/l			Annually		
Nitrate as NO3	mg/l			Annually		
Total Nitrogen	mg/l			Annually		
Faecal Coliforms	Cfu/100mls			Annually		
Total Coliforms	Cfu/100mls			Annually		



#### **Costed Environmental Liabilities Risk Assessment (ELRA)**

Indicate if the activity, through pre-application meeting with the Agency or other means, is required to submit a costed ELRA<sup>8</sup> as part of the licence, or licence review application.

Costed Environmental Liabilities Risk Assessment (ELRA) required to be submitted? (Yes/No):

Yes

If '**Yes**', upload a costed Environmental Liabilities Risk Assessment (ELRA), prepared in accordance with the *Environmental Protection Agency's Guidance on Assessing and Costing Environmental Liabilities* (2014) (select Document Type: '**ELRA**' in the application form).

Costed ELRA document filename:	ELRA Apporval.pdf
	A VISC.
Indicate your preferred form of financial provisi	on instrument to meet ELRA costings have regard to the Environmental Protection Agency's Guidance on
Financial Provision (2015), e.g., Environmental L	iability Insurance:
Environmental Liability Insurance	mpostied.
Upload a financial provision proposal have re	gard to the Environmental Protection Agency's Guidance on Financial Provision (2015) (where required at
	ocument Type: ' <u>Financial Provision Proposal</u> ' in the application form)
Financial Provision Proposal filename:	Financial Provision pdf
	COLOR <sup>EST</sup>

<sup>8</sup> There is an explicit requirement in EU and Irish law for financial provision for certain activities. The following categories of activities have an ELRA/CRAMP/FP requirement:

1. Landfills (excl. closed L.A. Landfills closed before 16<sup>th</sup> July 2009)

3. High Risk Contaminated Land Facilities

6. Incineration (incl. co-incineration of hazardous waste)

Regard should be had by applicants to relevant Agency guidance on these matters.

<sup>2.</sup> CAT A Extractive Waste Facilities

<sup>4.</sup> All Haz-Waste Transfer Stations

<sup>5.</sup> Non-Haz WTS (Accepting >50,000 tons/annum)

<sup>7.</sup> Upper & Lower Tier Seveso Sites

<sup>8.</sup> Exceptional circumstances associated with the site, e.g., significant ground/groundwater contamination.



#### **Closure, Restoration and Aftercare Management Plan (CRAMP)**

A restoration/aftercare period will be required where there are on-going environmental liabilities following closure. Applicants are required to describe the existing or proposed measures to avoid any risk of environmental pollution and to return the site to a satisfactory state or the state established in the baseline report where applicable, after the activity or part of the activity ceases operation.

A key measure is the preparation of a Closure, Restoration and Aftercare Management Plan (CRAMP) by the operator, for certain activities<sup>9</sup>. Notwithstanding the requirements of the EC Environmental Objectives (Groundwater) Regulations 2010, S.I. No. 9 of 2010, the closure and restoration/ aftercare target is the site condition at the time of the original application or the baseline report. The applicant shall have regard to the Environmental Protection Agency's Guidance on Assessing and Costing Environmental Liabilities (2014) in the preparation of the CRAMP.

Upload a CRAMP, where applicable (select Document Type: 'Site Closure' in the application form)

CRAMP filename:

#### Costed CRAMP

Indicate if the activity, through pre-application meeting with the Agency of other means, is required to have a CRAMP <sup>9</sup> submitted as part of the licence, or licence review application.

DMP AES Tullamore (W0104-03) May 2017.pdf

CRAMP required to be submitted at application/licence review application stage? (Yes/No):

Yes

<sup>9</sup> There is an explicit requirement in EU and Irish law for financial provision for certain activities. The applicant shall have regard to the Environmental Protection Agency's Guidance in determining CRAMP requirements and on Financial Provision (2015) in making financial provision to cover any liabilities.

The following categories of activities have an ELRA/CRAMP/FP requirement:

<sup>1.</sup> Landfills (excl. closed L.A. Landfills closed before 16<sup>th</sup> July 2009)

<sup>2.</sup> CAT A Extractive Waste Facilities

<sup>3.</sup> High Risk Contaminated Land Facilities

<sup>4.</sup> All Haz-Waste Transfer Stations

<sup>5.</sup> Non-Haz WTS (Accepting >50,000 tons/annum)

<sup>6.</sup> Incineration (incl. co-incineration of hazardous waste)

<sup>7.</sup> Upper & Lower Tier Seveso Sites

<sup>8.</sup> Exceptional circumstances associated with the site e.g. significant ground/groundwater contamination.



Indicate your preferred form of financial provision instrument to meet CRAMP costings (where appropriate), e.g., Secured fund, On-demand performance Bond, Parent Company Guarantee, Charge on Property (have regard to the Environmental Protection Agency's Guidance on Financial Provision (2015) on the Agency's website):

State preferred form of financial provision in	nstrument? Bond
	e required) having regard to the Environmental Protection Agency's Guidance on Financial Provision (2015) in ities (select Document Type: ' <u>Financial Provision Proposal</u> ' in the application form)
	met
Financial Provision Proposal filename:	Financial Provision.pdf
Cessation of Activity	iten purpose outro
	e measures to be taken on and following the permanent cessation of the activity or part of the activity to avoid any
in to this attachment).	n the site of the activity to a satisfactory state. (Input your response in the text box below or attach the information
	Conser
Emergency Response Procedure	

Do you have an emergency response procedure (ERP)? (Yes/No)

Is the ERP compliant with the EPA guidance? (Yes/No)

Yes	
Yes	



## 9.2. Nuisance

Complete the table below in relation to each potential nuisance. Identify if the activity may cause or contribute to the type of nuisance in the area of the installation/facility and, where applicable, identify the techniques used to prevent/minimise the nuisance.

Type of Nuisance	Applicable to the activity? (Yes/No/ Not Applicable)	Techniques to prevent nuisances	Where nuisances cannot be prevented, techniques to be used to minimise and reduce nuisances
Odour	Yes		Waste activities to be carried out internally.
Fire Control	Yes		📲 ire Prevention Plan.
Dust	Yes	ally and the	All waste acceptance, processing and storage carried out inside fully enclosed building.
Litter	Yes	-Dection purpose of the required for any other	All wastes with the potential to generate litter (MSW) are delivered in enclosed vehicles and are handled and stored inside the processing building.
Birds	Yes	For inspections	All wastes with that contain foodstuffs attractive to birds (MSW) are delivered in enclosed vehicles and are handled and stored inside the processing building.
Mud	No	n <sup>sent</sup>	
Flies	Yes	Con	All wastes with that contain foodstuffs attractive to flies (MSW) are delivered in enclosed vehicles and are handled and stored inside the processing building. AES as retained a specialist pest and vermin contractor who visits the site as required.
Vermin	Yes		All wastes with that contain putrescible materials attractive to vermin (MSW) are delivered in enclosed vehicles and are handled and stored inside the processing building. AES as retained a specialist pest and vermin contractor who visits the site as required.
Other	No		



If '**Other**' is selected define the other nuisance(s):

Note: Odour must also be addressed in the fugitive emissions section of the '7.4 Emissions to Atmosphere – Main and Fugitive' template, where applicable.

Conserved constrained to any other use.



## 9.3. Environmental Management System (EMS)

Do you have an environmental management system? (Yes/No)

If 'Yes', is the environmental management system accredited? (Yes/No)

State the date accreditation was achieved or is expected to be achieved, when applicable:

State the standard of accreditation achieved:

## **Energy Efficiency**

digh purposes only any other use. Outline the measures taken to ensure that energy is used efficiently having regard to the relevant decision on BAT conclusions and/or BAT guidance and where appropriate, an energy audit with reference to the EPA Guidance document on Energy Audit should be carried out. For inspects to

Has an energy audit been carried out? (Yes/No)

Do you have an energy efficiency management system? (Yes/No)

If 'Yes', is the energy efficiency management system accredited? (Yes/No)

State	the	date	accreditation	was	achieved	or	is	expected	to	be	achieved
where	e app	olicabl	e:								

State the standard of accreditation achieved:

	Yes	
	Yes	
re		

AES is currently rolling out ISO 5001 Energy Management thorough out the Business Unit.

Yes

No



## 9.4. Hours of Operation

Provide details of the hours of operation for the installation (hours and days per week, etc.), including:

(a) Proposed hours of operation. 0700 hrs to 2300hrs Monday to Saturday, inclusive.

(b) Proposed hours of construction and development works and timeframes. N/A?

(c) For waste activities, the proposed hours of waste acceptance. 0600 hrs to 0000hrs Monday to Saturday, inclusive.

(d) Any other relevant hours of operation expected (e.g., waste handling, etc.).



#### 9.5. Review of a Licence

Where the Office of Environmental Enforcement (OEE) has agreed any variations or adjustments to the conditions or schedules of the existing licence, the licensee must provide details of these agreed variations and adjustments to the existing licence conditions in the table that follows.

An updated, scaled drawing of the site layout (no larger than A3) providing visual information on such adjustments or variations where appropriate should be uploaded in the **site tab** – 'site plan(s)' upload.

In the case of once-off assessments/reports required under conditions/schedules of the existing licence the licensee must provide details of those assessments/reports that have been completed and agreed with the OEE or as otherwise agreed, in the table below.

Condition/ Schedule No.	Existing Condition	OEE Agreement and Reference	Description
		in Purcou	
		TSP town	
		FOLLING	
		, of cor	
		onsent	