

Facility Information Summary

AER Reporting Year	2012
Licence Register Number	W0059-03
Name of site	Ballaghaderreen Landfill
Site Location	Aghalustia Townland, Ballaghaderreen, County Roscommon
NACE Code	3821
Class/Classes of Activity	Treatment and disposal of non-hazardous waste
National Grid Reference (6E, 6 N)	163350 292800

A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year **and an overview of compliance with your licence listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.**

The landfill site stopped accepting waste for disposal to landfill in July 2010. There were no activities or process at the site during 2012 except for monitoring as required by the Licence. During 2012, there were exceedances of the licence limits for carbon dioxide in some of the perimeter boreholes and the DWS (and GTV in BH102) for ammoniacal nitrogen in downgradient monitoring boreholes (but at lower concentrations than in 2011). Annual flare monitoring and noise monitoring were not carried out in 2012.

Declaration:

All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements.

John Mockler	26-Mar-13
Signature	Date
Group/Facility manager	
(or nominated, suitably qualified and experienced deputy)	

AIR-summary template	Lic No: W0059-03	Year	2012
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Answer all questions and complete all tables where relevant

1	Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If you do not have licenced emissions and do not complete a solvent management plan (table A4 and A5) you <u>do not</u> need to complete the tables	Additional information	
		Yes	For the landfill gas flare and perimeter monitoring boreholes as per Condition 6 of the Licence.

Periodic/Non-Continuous Monitoring

2	Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below	Yes	Carbon dioxide in perimeter boreholes.
		Yes	Flare monitoring not carried out in 2012.
3	Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist?	Yes	AGN2

Table A1: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments -reason for change in % mass load from previous year if applicable
Perimeter monitoring boreholes GM201-GM208	Methane (CH4)	Monthly (although no data for April-June 2012 available)	1.0% v/v	100 % of values < ELV	Max 0.0% v/v	SELECT	yes	SELECT	0	Method of analysis for methane and carbon dioxide in perimeter monitoring boreholes is in accordance with Site Operating Procedure SOP17.
Perimeter monitoring boreholes GM201-GM208	Carbon dioxide (CO2)	Monthly (although no data for April-June 2012 available)	1.5% v/v	100 % of values < ELV	Max 8.6% v/v (GM204, September 2012)	SELECT	no (if no please enter details in comments box)	SELECT	Cannot calculate as flow rates not recorded.	Given that there are no corresponding elevated methane levels within the perimeter monitoring boreholes then landfill gas is unlikely to be the source of the carbon dioxide. Elevated carbon dioxide concentrations could occur as a result of decomposition processes within the peat into which the monitoring boreholes are installed. It is recommended that the EPA are consulted on increasing the carbon dioxide trigger levels to 1.5% v/v above the 95th percentile carbon dioxide level for each borehole.
Flare Outlet	volumetric flow	Annually	-	SELECT	433.33	Nm3/hour	SELECT	SELECT	N/A	Flow monitoring completed on monthly basis - measured value is average from available data.
Flare Outlet	Nitrogen oxides (NOx/NO2)	Annually	<150 mg/Nm ³	100 % of values < ELV	N/A - see comments	SELECT	SELECT	SELECT	N/A - see comments	Flare monitoring not completed in 2012.
Flare Outlet	Total Organic Carbon (as C)	Annually	<10 mg/Nm ³	100 % of values < ELV	N/A - see comments	SELECT	SELECT	SELECT	N/A - see comments	Flare monitoring not completed in 2012.
Flare Outlet	Total acids	Annually	Hydrochloric acid - <50 mg/Nm ³ >0.3 kg/hr	100 % of values < ELV	N/A - see comments	SELECT	SELECT	SELECT	N/A - see comments	Flare monitoring not completed in 2012.
Flare Outlet	Total acids	Annually	Hydrogen fluoride - <5 mg/Nm ³ >0.05 kg/hr	100 % of values < ELV	N/A - see comments	SELECT	SELECT	SELECT	N/A - see comments	Flare monitoring not completed in 2012.

Note 1: Volumetric flow shall be included as a reportable parameter

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0059-03 Year 2012

<p>1 Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If you do not have licenced emissions you <u>only</u> need to complete table W1 and or W2 for surface water analysis and visual inspections</p>		<p>Additional information</p> <p>The lagoon provides buffer storage for leachate pumped from the lined cells, before it is pumped to the public sewer to discharge to Ballaghaderreen STW.</p>
<p>2 Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising <u>only</u> any evidence of contamination noted during visual inspections</p>	<p>Yes</p>	<p>Table D.5.1 requires weekly visual inspection of surface water.</p>

Table W1 Surface water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	

*trigger values may be agreed by the Agency outside of licence conditions

Table W2 Visual inspections-Please only enter details where contamination was observed.

Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
N/A - no contamination observed	Weekly		SELECT		
			SELECT		

Licensed Emissions to water and /or wastewater(sewer)-periodic monitoring (non-continuous)

<p>3 Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below</p>	<p>SELECT</p>	<p>Additional information</p>
<p>4 Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box</p>	<p>Yes</p>	

Table W3: Licensed Emissions to water and /or wastewater (sewer)-periodic monitoring (non-continuous)

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof ^{Note 2}	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
LS-1	Wastewater/Se wer	volumetric flow	discrete	Daily	24 hour	N/A	No flow value shall exceed the specific limit.	Total 26.542 m3 for 2012	m3/day	yes	INSTRUMENTAL METHODS	Other (please specify)	Standard Operating Procedure SOP16	26542	
LS-1	Wastewater/Se wer	Volatile organic compounds (as TOC)	discrete	Frequency and method are still to be agreed with EPA		0.14 mg/l			mg/L				N/A	N/A	This relates to methane, which could not be selected from dropdown box

Note 1: Volumetric flow shall be included as a reportable parameter

Note 2: Where Emission Limit Values (ELV) do not apply to your licence please compare results against EQS for Surface water or relevant receptor quality standards

Continuous monitoring

5 Does your site carry out continuous emissions to water/sewer monitoring?

Additional Information	
No	Table D.8.1 in the Licence requires daily flow monitoring and methane monitoring at a frequency 'to be agreed'. We have assumed that daily flow monitoring is not classified as continuous monitoring.

If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)

6 Did continuous monitoring equipment experience downtime? If yes please record downtime in table W4 below

No	N/A
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7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?

No	N/A
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8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below

No

Table W4: Summary of average emissions -continuous monitoring

Emission reference no:	Emission released to	Parameter/ Substance	ELV or trigger values in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission for current reporting year (kg)	% change +/- from previous reporting year	Monitoring Equipment downtime (hours)	Number of ELV exceedences in reporting year	Comments
	SELECT	SELECT		SELECT	SELECT	SELECT					
	SELECT	SELECT		SELECT	SELECT	SELECT					

note 1: Volumetric flow shall be included as a reportable parameter.

Table W5: Abatement system bypass reporting table

Date	Duration (hours)	Location	Resultant emissions	Reason for bypass	Corrective action*	Was a report submitted to the EPA?	When was this report submitted?
						SELECT	

*Measures taken or proposed to reduce or limit bypass frequency

Bund testing

dropdown menu click to see options

Additional information

Are you required by your licence to undertake integrity testing on bunds and containment structures? If yes please fill out table B1 below listing all **new bunds and containment structures** on site, **in addition to all bunds which failed** the integrity test-**all bunding structures which failed including mobile bunds must be listed in the table below**

1 Please provide integrity testing frequency period

Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)

4 How many bunds are on site?

5 How many of these bunds have been tested within the required test schedule?

6 How many mobile bunds are on site?

7 Are the mobile bunds included in the bund test schedule?

8 How many of these mobile bunds have been tested within the required test schedule?

9 How many sumps on site are included in the integrity test schedule?

10 How many of these sumps are integrity tested within the test schedule?

Please list any sump integrity failures in table B1

11 Do all sumps and chambers have high level liquid alarms?

12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?

Yes	Condition 10.4 c) of Licence
3 years	Condition 3.10.5 of the Licence
Yes	
1	Leachate lagoon bund
0	Due September 2012
0	
SELECT	N/A
N/A	
0	
N/A	

Yes	High level alarms installed in pump sumps and leachate lagoon
Yes	In accordance with site Operating Procedures

Table B1: Summary details of bund /containment structure integrity test

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
Leachate lagoon bund	other (please specify) SELECT	Granular basal support layer, BES layer, HDPE layer, geotextile protection layer and granular layer supported by geoweb on side slopes	Leachate	Approximately 800 cubic metres	N/A: bund walls form the structure of the lagoon (i.e. it is not a bund containing a tank or similar)	Structural assessment		09/09/2009	Yes	Pass		SELECT	Sep-12	N/A - see above
						SELECT			SELECT	SELECT		SELECT		

* Capacity required should comply with 25% or 110% containment rule as detailed in your licence

Commentary

Yes	Lagoon integrity tested every 3 years in accordance with Licence, although now overdue.
Yes	Connecting pipework to lagoon was tested following installation in 2003.
Yes	Connecting pipework to lagoon was tested following installation in 2003.

14 Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance?

[bundings and storage guidelines](#)

15 Are channels/transfer systems to remote containment systems tested?

16 Are channels/transfer systems compliant in both integrity and available volume?

Pipeline/underground structure testing

Are you required by your licence to undertake integrity testing on underground structures e.g. pipelines or sumps etc? If yes please fill out table 2 below listing all

1 underground structures and pipelines on site **which failed the integrity test**

2 Please provide integrity testing frequency period

No	Pipework installed under CQA
Other (please specify)	N/A

Table B2: Summary details of pipeline/underground structures integrity test

Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

Please use commentary for additional details not answered by tables/ questions above

Bund testing

dropdown menu click to see options

Additional information

Are you required by your licence to undertake integrity testing on bunds and containment structures? If yes please fill out table B1 below listing all **new bunds and containment structures** on site, **in addition to all bunds which failed** the integrity test-**all bunding structures which failed including mobile bunds must be listed in the table below**

1 Please provide integrity testing frequency period

Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore"

3 type units and mobile bunds)

4 How many bunds are on site?

5 How many of these bunds have been tested within the required test schedule?

6 How many mobile bunds are on site?

7 Are the mobile bunds included in the bund test schedule?

8 How many of these mobile bunds have been tested within the required test schedule?

9 How many sumps on site are included in the integrity test schedule?

10 How many of these sumps are integrity tested within the test schedule?

Please list any sump integrity failures in table B1

11 Do all sumps and chambers have high level liquid alarms?

12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?

Yes	Condition 10.4 c) of Licence
3 years	Condition 3.10.5 of the Licence
Yes	
1	Leachate lagoon bund
0	Due September 2012
0	
SELECT	N/A
N/A	
0	
N/A	

Yes	High level alarms installed in pump sumps and leachate lagoon
Yes	In accordance with site Operating Procedures

Table B1: Summary details of bund /containment structure integrity test

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
Leachate lagoon bund	other (please specify) SELECT	Granular basal support layer, BES layer, HDPE layer, geotextile protection layer and granular layer supported by geoweb on side slopes	Leachate	Approximately 800 cubic metres	N/A: bund walls form the structure of the lagoon (i.e. it is not a bund containing a tank or similar)	Structural assessment		09/09/2009	Yes	Pass		SELECT	Sep-12	N/A - see above
						SELECT			SELECT	SELECT		SELECT		

* Capacity required should comply with 25% or 110% containment rule as detailed in your licence

Commentary

Yes	Lagoon integrity tested every 3 years in accordance with Licence, although now overdue.
Yes	Connecting pipework to lagoon was tested following installation in 2003.
Yes	Connecting pipework to lagoon was tested following installation in 2003.

Has integrity testing been carried out in accordance with licence requirements and are all structures tested in

14 line with BS8007/EPA Guidance? [bundings and storage guidelines](#)

15 Are channels/transfer systems to remote containment systems tested?

16 Are channels/transfer systems compliant in both integrity and available volume?

Pipeline/underground structure testing

Are you required by your licence to undertake integrity testing on underground structures e.g. pipelines or sumps etc? If yes please fill out table 2 below listing all

1 underground structures and pipelines on site **which failed the integrity test**

2 Please provide integrity testing frequency period

No	Pipework installed under CQA
Other (please specify)	N/A

Table B2: Summary details of pipeline/underground structures integrity test

Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

Please use commentary for additional details not answered by tables/ questions above

Groundwater/Soil monitoring template

Lic No:

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Year

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		Comments
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes Schedule D of Licence.
2	Are you required to carry out soil monitoring as part of your licence requirements?	no
3	Do you extract groundwater for use on site? If yes please specify use in comment section	no
4	Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12	yes Cells 1 to 5 at the site were designed and operated on the principles of 'dilute and disperse' and are therefore unlined.
5	Is the contamination related to operations at the facility (either current and/or historic)	yes See above.
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	yes Capping and landfill gas/leachate management of Cells 1 to 5.
7	Please specify the proposed time frame for the remediation strategy	yes Ongoing.
8	Is there a licence condition to carry out/update ELRA for the site?	yes Condition 12.4.2 of Licence.
9	Has any type of risk assessment been carried out for the site?	yes Please refer to Waste Licence Review application, Entec reference 00966rr529i2 dated March 2002.
10	Has a Conceptual Site Model been developed for the site?	yes Please refer to EMS, latest version is 2010 update, Entec (now AMEC) ref: 15951rr689i1 and Waste Licence Review application, Entec reference 00966rr529i2 dated March 2002.
11	Have potential receptors been identified on and off site?	yes Please refer to EMS, latest version is 2010 update, Entec (now AMEC) ref: 15951rr689i1 and Waste Licence Review application, Entec reference 00966rr529i2 dated March 2002.
12	Is there evidence that contamination is migrating offsite?	yes Exceedances of DWS (and GTV in BH102) for ammoniacal nitrogen in downgradient monitoring boreholes (but lower concentrations than in 2011).

Groundwater/Soil monitoring template

Lic No:

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Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	DWS	% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
21 Mar, 14 Aug and 07 Nov 2012	BH04/1	Ammoniacal nitrogen	Site Operating Procedure SOP15	Quarterly (but no data for Q2 available)	0.11	0.11	mg/l	3	0.3	61.76%	yes
21 Mar, 14 Aug and 07 Nov 2012	BH04/1	Chloride	Site Operating Procedure SOP15	Quarterly (but no data for Q2 available)	30.1	25.45	mg/l	100	250	-14.65%	no
21 Mar, 14 Aug and 07 Nov 2012	BH04/1	TOC	Site Operating Procedure SOP15	Quarterly (but no data for Q2 available)	7.5	6.1	mg/l	80	N/A	9.52%	yes

.+ where average indicates arithmetic mean

.++ maximum concentration indicates the maximum measured concentration from all monitoring results produced during the reporting year

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	DWS	% change in average concentration previous year +/-	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
21 Mar, 14 Aug and 07 Nov 2012	BH102	Ammoniacal nitrogen	Site Operating Procedure SOP15	Quarterly (but no data for Q2 available)	4.05	2.13	mg/l	3	0.3	-47.92%	no
21 Mar, 14 Aug and 07 Nov 2012	BH102	Chloride	Site Operating Procedure SOP15	Quarterly (but no data for Q2 available)	20.11	13.99	mg/l	100	250	-19.60%	no
21 Mar, 14 Aug and 07 Nov 2012	BH102	TOC	Site Operating Procedure SOP15	Quarterly (but no data for Q2 available)	12.9	10.4	mg/l	80	N/A	5.26%	yes
21 Mar, 14 Aug and 07 Nov 2012	BH103	Ammoniacal nitrogen	Site Operating Procedure SOP15	Quarterly (but no data for Q2 available)	1.1	0.73	mg/l	3	0.3	-60.54%	no
21 Mar, 14 Aug and 07 Nov 2012	BH103	Chloride	Site Operating Procedure SOP15	Quarterly (but no data for Q2 available)	17.8	14.9	mg/l	100	250	-23.20%	no
21 Mar, 14 Aug and 07 Nov 2012	BH103	TOC	Site Operating Procedure SOP15	Quarterly (but no data for Q2 available)	8.8	6.27	mg/l	80	N/A	-17.50%	no

* please note exceedance of a relevant Groundwater threshold value (GTV) at a representative monitoring point does not indicate non compliance, an exceedance triggers further investigation to confirm whether the criteria for poor groundwater chemical status are being met.

Groundwater/Soil monitoring template	Lic No: W0059-03	Year: 2012
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**Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS), if the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS)

[Surface water EQS](#) [Groundwater regulations](#) [Drinking water \(private supply\) standards](#) [Drinking water \(public supply\) standards](#) [Interim Guideline Values \(IGV\)](#)

Groundwater/Soil monitoring template	Lic No: W0059-03	Year 2012
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Table 3: Soil results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit
							SELECT
							SELECT

Where additional detail is required please enter it here in 200 words or less

[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

			Commentary
1	ELRA initial agreement status	Required but not submitted	
2	ELRA review status	SELECT	ELRA not submitted to date
3	Amount of Financial Provision cover required as determined by the latest ELRA	N/A	
4	Financial Provision for ELRA status	Required but not submitted	
5	Financial Provision for ELRA - amount of cover	Not known at this stage.	
6	Financial Provision for ELRA - type	Other please specify	Financial provision will be made available from Central Government funds by way of loans from Central Government.
7	Financial provision for ELRA expiry date	Enter expiry date	No date of expiry
8	Closure plan initial agreement status	Required but not submitted	
9	Closure plan review status	SELECT	N/A
10	Financial Provision for Closure status	Required but not submitted	
11	Financial Provision for Closure - amount of cover	Not known at this stage.	
12	Financial Provision for Closure - type	Other please specify	Financial provision will be made available from Central Government funds by way of loans from Central Government.
13	Financial provision for Closure expiry date	Enter expiry date	No date of expiry

Environmental Management Programme/Continuous Improvement Programme template	Lic No:	W0059-03	Year	2012
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	Highlighted cells contain dropdown menu click to view	Additional Information
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes Latest version is 2010 update, Entec (now AMEC) ref: 15951rr689i1
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes See above referenced EMS document.
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes See above referenced EMS document.
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes Refer to Roscommon County Council website: http://www.roscommoncoco.ie/en/Services/Environment/Waste_Management,_Disposal_and_Recycling/

Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
SELECT		SELECT		SELECT	SELECT
SELECT		SELECT		SELECT	SELECT
SELECT		SELECT		SELECT	SELECT

Noise monitoring summary report	Lic No: W0059-03	Year	2012
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- 1 Was noise monitoring a licence requirement for the AER period?
If yes please fill in table N1 noise summary below
- 2 Was noise monitoring carried out using the EPA Guidance note including completion of the "Checklist for noise measurement report" included in the guidance note as table 6?
- 3 Does your site have a noise reduction plan
- 4 When was the noise reduction plan last updated?
- 5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

[Noise Guidance note NG4](#)

Table N1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is site compliant with noise limits (day/evening/night)?
Not completed (see below)								SELECT	SELECT		SELECT

*Please ensure that a tonal analysis has been carried out as per guidance note NG4. These records must be maintained onsite for future inspection

If noise limits exceeded as a result of noise attributed to site activities, please choose the corrective action from the following options?

** please explain the reason for not taking action/resolution of noise issues?
Noise monitoring is required as per Table D.4.1 of the licence on an annual basis, but was not carried out in 2012 as the landfill site had ceased accepting waste for disposal. Noise monitoring was last carried out on 6 December 2010.

Additional information							
1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below 2 Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information 3 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; height: 100px; vertical-align: top;">Site energy use reviewed as part of AER, no recommendations made as landfill site is now closed .</td> <td style="width:50%;"></td> </tr> <tr> <td style="background-color: #e0f0ff;">no</td> <td>The Council is not part of the LIEN</td> </tr> <tr> <td style="background-color: #e0f0ff;">SELECT</td> <td>N/A - fuel oil not used in boilers on site.</td> </tr> </table>	Site energy use reviewed as part of AER, no recommendations made as landfill site is now closed .		no	The Council is not part of the LIEN	SELECT	N/A - fuel oil not used in boilers on site.
Site energy use reviewed as part of AER, no recommendations made as landfill site is now closed .							
no	The Council is not part of the LIEN						
SELECT	N/A - fuel oil not used in boilers on site.						

Table R1 Energy usage on site				
Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	151.021	127.143		-15.81%
Total Energy Generated (MWHrs)	0	0	N/A	N/A
Total Renewable Energy Generated (MWHrs)	0	0	N/A	N/A
Electricity Consumption (MWHrs)	151.021	127.143		-15.81%
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	0			
Light Fuel Oil (m3)	0			
Natural gas (CMN)	0			
Coal/Solid fuel (metric tonnes)	0			
Peat (metric tonnes)	0			
Renewable Biomass	0			
Renewable energy generated on site	0			

* where consumption of energy can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

** where site production information is available please enter percentage increase or decrease compared to previous year

Table R2 Water usage on site					Water Emissions	Water Consumption
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Volume Discharged back to environment(m ³ /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr
Groundwater						
Surface water						
Public supply	Estimated at 12	Estimated at 297	2375.00%	N/A	Estimated at 297	N/A
Recycled water						
Total						

* where consumption of water can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

** where site production information is available please enter percentage increase or decrease compared to previous year

Table R3 Waste Stream Summary					
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)					

Resource Usage/Energy efficiency summary Lic No: W0059-03 Year 2012

Table R4: Energy Audit finding recommendations								
Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
			SELECT					
			SELECT					
			SELECT					

Table R5: Power Generation: Where power is generated onsite (e.g. power generation facilities/food and drink industry)please complete the following information

	Unit ID	Unit ID	Unit ID	Unit ID	Station Total
Technology					
Primary Fuel					
Thermal Efficiency					
Unit Date of Commission					
Total Starts for year					
Total Running Time					
Total Electricity Generated (GWH)					
House Load (GWH)					
KWH per Litre of Process Water					
KWH per Litre of Total Water used on Site					

Complaints and Incidents summary template Lic No: W0059-03 Year 2012

Complaints		Additional information
Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below		No

Table 1 Complaints summary							
Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action< 20 words	Resolution status	Resolution date	Further information
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
Total complaints open at start of reporting year							
Total new complaints received during reporting year							
Total complaints closed during reporting year							
Balance of complaints end of reporting year							

Incidents		Additional information
Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 2 below		Yes

Exceedances of Licence limits for carbon dioxide in perimeter boreholes and ammoniacal nitrogen in downgradient boreholes at per relevant tabs of AER template. Exceedances detailed in quarterly reports.

*For information on how to report and what constitutes an incident [What is an incident](#)

Table 2 Incidents summary														
Date of occurrence	Incident nature	Location of occurrence	Incident category*please refer to guidance	Receptor	Cause of incident	Other cause(please specify)	Activity in progress at time of incident	Communication	Occurrence	Corrective action<20 words	Preventative action <20 words	Resolution status	Resolution date	Likelihood of reoccurrence
See above	Breach of ELV	Perimeter boreholes	1. Minor	Air	Operational controls		Normal activities	EPA	Recurring			Ongoing	N/A	High
See above	Breach of ELV	Downgradient boreholes	1. Minor	Water	Operational controls		Normal activities	EPA	Recurring			Ongoing	N/A	High
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
Total number of incidents current year	See quarterly reports.													
Total number of incidents previous year	See quarterly reports.													
% reduction/increase														

WASTE SUMMARY	Lic No: W0059-03	Year: 2012
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES	PRTR facility logon	dropdown list click to see options

SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES

Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility?; (waste generated within your boundaries is to be captured through PRTR reporting)

Additional Information

No	Landfill closed in 2011
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If yes please enter details in table 1 below

2 Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information

No	Landfill closed in 2011
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3 Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information

N/A	Landfill closed in 2011
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Table 1 Details of waste accepted onto your site for recovery, disposal or treatment (do not include wastes generated at your site, as these will have been reported in your PRTR workbook)

Licensed annual tonnage limit for your site (total tonnes/annum)	EWIC code	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which European Waste Catalogue EWC codes	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/Increase over previous year +/- %	Reason for reduction/increase from previous reporting year	Packaging Content (%)- only applies if the waste has a packaging component	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -
SEE PRTR FOR WASTES ACCEPTED AT RECYCLING CENTRE											

SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES

4 Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite

N/A	No waste processing infrastructure
SELECT	
Yes	

5 Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site

Yes	Refer to Site Operating Procedure SOP 7
Yes	Odour management procedure in place, SOP ref: SOP29
No	

6 Does your facility have relevant nuisance controls in place?
7 Do you have an odour management system in place for your facility? If no why?
8 Do you maintain a sludge register on site?

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type and tonnage-landfill only

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments

Table 3 General information-Landfill only

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area	Comments on liner type
										SELECT UNIT	SELECT UNIT	SELECT UNIT	
Cells 1 - 8	1980	2010	No	Public	Non Hazardous	Landfilling now complete	Yes	No	No	5.02 ha	2.27 ha	2.75 ha	0.5 m BES and 2mm HDPE

WASTE SUMMARY	Lic No: W0059-03	Year: 2012
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Table 4 Environmental monitoring-landfill only [Landfill Manual-Monitoring Standards](#)

Was meteorological monitoring in compliance with Landfill Directive (LD) standard in reporting year +	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments
None	Yes	Yes	Yes	Yes	Yes	No	No	There will be no statement for 2012 as it is understood that there are no charges to levy on a closed landfill.

+ please refer to Landfill Manual linked above for relevant Landfill Directive monitoring standards

Table 5 Capping-Landfill only

Area uncapped*	Area with temporary cap	Area with final cap to LD Standard m ² ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					
None	None	5.02 ha	None	None	(Base upwards): regraded waste, then regulating layer, then geosynthetic gas drainage layer, LDPE geomembrane, geosynthetic drainage layer, restoration soils.	

*please note this includes daily cover area

Table 6 Leachate-Landfill only

9 Is leachate from your site treated in a Waste Water Treatment Plant?

Yes
No

10 Is leachate released to surface water? If yes please complete leachate mass load information below

Volume of leachate in reporting year(m ³)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH ₄) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments

Please ensure that all information reported in the landfill gas section is consistent with the Landfill Gas Survey submitted in conjunction with PRTR returns

Table 7 Landfill Gas-Landfill only

Gas Captured&Treated by LFG System m ³	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
3796000	0 Flared off		No	Estimate of gas captured and treated by landfill gas system. Surface emissions monitoring completed in July 2011 by Odour Monitoring Ireland