

Facility Information Summary	
AER Reporting Year	2016
Licence Register Number	W0027
Name of site	Pollboy Landfill
Site Location	Pollboy, Ballinasloe, Co.Galway
NACE Code	3821
Class/Classes of Activity	Third Schedule 4,5,6,7,11,13. Fourth Schedule 2,3,4,9,10,11,12,13.
National Grid Reference (6E, 6 N)	-8.22343 53.3127
<p>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 <b>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.</b></p> <p>Landfilling ceased at the site on 31st December, 2005 following a court ruling. The entire landfill facility covers an area of approx 23 ha. ha while Cell No.1 the lined cell has an approximate area of 3.6 ha. The unlined landfill portion of the site occupies an area of approximately 7.1 There is currently a civic amenity site in operation adjacent to the landfill site which is operated by Barna Waste. There were no landfilling activities or processes carried out at the site during 2016 except for monitoring as required by the Licence. Annual noise monitoring was not carried out in 2016, in agreement with the Agency. The majority of surface water sampling points were within limits set for compliance parameters including chloride, conductivity, pH and temperature. Elevated BOD, dissolved oxygen, ammonia, COD, and suspended solids were recorded at SW1, SW6 and SW8. Elevated levels of dissolved oxygen and ammonia were recorded at SW8. Elevated levels of dissolved oxygen were recorded at SW3 and SW4. Levels of pH, temperature and TOC remained within interim guidelines set out for groundwater. A hydrogeological assessment was carried out in October 2013 that details groundwater interactions on site. This report was subsequently revised and updated with the most recent version issued to the Agency in October 2015. Sampling of leachate was undertaken in Q1, Q2, Q3 and Q4 in 2016. The leachate samples were obtained from the leachate lagoon. The results demonstrate that the levels are within the licence limits. The landfill gas in the old cell has been consistent over the past number of years, with the highest concentration of methane being measured in wells GW6, 12, 15, and 23. Gas is flared by a 750 m<sup>3</sup>/hr AFS Flare with a 850 m<sup>3</sup>/hr Haas Flare used as a back up. The reported energy consumption figure of 120.25 MWHrs is an estimate based on the 2015 reported figure.</p>	

**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.

	30-3-17
Signature Group/Facility manager (or nominated, suitably qualified and experienced deputy)	Date

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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 do not need to complete the tables

Additional information	
Yes	1 No. enclosed flare monitored on the 8th May 2016

### 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

No	
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- 3 Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? [Basic air monitoring checklist](#)

AGN2

Yes	
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**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
Landfill Flare	Carbon monoxide (CO)	Continuous	50 mg/m <sup>3</sup>	Daily average < ELV	3.96	mg/m <sup>3</sup>	yes	EN 15058:2006		
Landfill Flare	Nitrogen Oxides (Nox/NO2)	Annually	150 mg/m <sup>3</sup>	No 30min mean can exceed the ELV	51.4	mg/m <sup>3</sup>	yes	EN 14792:2006		
Landfill Flare	Total Organic Carbon (as C)	Annually	10 mgC/m <sup>3</sup>	No 30min mean can exceed the ELV	4.23	mgC/m <sup>3</sup>	yes	EN 12619:2013		
Landfill Flare	Hydrogen Chloride (HCL)	Annually	50 mg/m <sup>3</sup>	No 30min mean can exceed the ELV	1.41	mg/m <sup>3</sup>	yes	EN 1911:2010		
Landfill Flare	Hydrogen Fluoride (HF)	Annually	5 mg/m <sup>3</sup>	No 30min mean can exceed the ELV	0.32	mg/m <sup>3</sup>	yes	EN 15713:2006		
Landfill Flare	Sulphur Dioxide (SO2)	Annually			1266.6	mg/m <sup>3</sup>	N/A	TGN 21		
Landfill Flare	Oxygen	Continuous			9.61	% v/v	N/A	EN 14789:2005		

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

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<b>Continuous Monitoring</b>				

4	Does your site carry out continuous air emissions monitoring? If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)	Yes	Continuous monitoring required in Landfill Gas Combustion Plant/Enclosed Flare
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	Yes	
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	No	
7	Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	Yes	Bypass flare in use at site

**Table A2: Summary of average emissions -continuous monitoring**

Emission reference no:	Parameter/ Substance	ELV in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
Flare	Volumetric Flow	N/A	2016	100 % of values < ELV	m <sup>3</sup> /h	178	210	92 Hours 40 Minutes		
Flare	Temperature	1000	2016	100 % of values < ELV	°C	1020	1026	92 Hours 40 Minutes		
Flare	Carbon Dioxide	N/A	2016	100 % of values < ELV	%	18.73	21	92 Hours 40 Minutes		
Flare	Carbon Monoxide	N/A	2016	100 % of values < ELV	ppm	11.88	16	92 Hours 40 Minutes		
Flare	Methane	N/A	2016	100 % of values < ELV	%	31.36	34	92 Hours 40 Minutes		
Flare	Oxygen	N/A	2016	100 % of values < ELV	%	1.74	2.9	92 Hours 40 Minutes		

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

**Table A3: Abatement system bypass reporting table**

[Bypass protocol](#)

Date*	Duration** (hours)	Location	Reason for bypass	Impact magnitude	Corrective action
09/01/2016	8 Hours	Gas diverted to bypass flare	Abatement equipment offline	Low	None required
11/02/2016	6 Hours 25 Minutes	Gas diverted to bypass flare	Abatement equipment offline	Low	None required
24/02/2016	45 Minutes	Gas diverted to bypass flare	Surface gas carrier pipe became detached at from other gas trunk main at coupling	Low	Loose pipe connection fixed
11/07/2016	14 Hours	Gas diverted to bypass flare	Abatement equipment offline	Low	None required
26/08/2016	2 Hours 30 Minutes	Gas diverted to bypass flare	Abatement equipment offline	Low	Pipe reconnected using new connection clip
26/08/2016	15 Hours 40 Minutes	Gas diverted to bypass flare	Abatement equipment offline	Low	None required
01/10/2016	3 Hours	Gas diverted to bypass flare	Abatement equipment offline - Leak discovered in gas pipe network	Low	Leak fixed
20/11/2016	9 Hours 45 Minutes	Gas diverted to bypass flare	Abatement equipment offline	Low	None required
23/11/2016	8 Hours 20 Minutes	Gas diverted to bypass flare	Abatement equipment offline	Low	None required
25/11/2016	7 Hours 15 Minutes	Gas diverted to bypass flare	Abatement equipment offline	Low	None required
30/11/2016	17 Hours	Gas diverted to bypass flare	Abatement equipment offline - Ice blockage in system	Low	None required

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\* this should include all dates that an abatement system bypass occurred

\*\* an accurate record of time bypass beginning and end should be logged on site and maintained for future Agency inspections please refer to bypass protocol link

**Solvent use and management on site**

8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out tables A4 and A5

SELECT

<b>Table A4: Solvent Management Plan Summary</b>	<a href="#">Solvent regulations</a> Please refer to linked solvent regulations to complete table 5 and 6
<b>Total VOC Emission limit value</b>	

Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision thereof	Compliance
					SELECT
					SELECT

Table A5: Solvent Mass Balance summary								
	(I) Inputs (kg)	(O) Outputs (kg)						
Solvent	(I) Inputs (kg)	Organic solvent emission in waste	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g.	Solvents destroyed onsite through	Total emission of Solvent to air (kg)
<b>Total</b>								

## AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)

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## Additional information

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** licensed emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections

Yes  
Surface water discharges to surrounding stream network. Leachate pumped to sewer and treated in Wastewater Treatment Plant in Ballinasloe.

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 only any evidence of contamination noted during visual inspections

Yes  
Yes, weekly monitoring of surface water as per licence Table D.5.1 'Water and Leachate Parameters/Frequency'. No evidence of contamination noted during visual inspections.

Table W1 Storm water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licensed 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
			SELECT		
			SELECT		

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

3 Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below

Yes  
Additional information

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

[External /Internal Lab Quality checklist](#) [Assessment of results checklist](#)

Yes

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

Emission reference no:	Emission released to	Parameter/ Substance Note 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof <sup>Note 2</sup>	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
SW1	Water	COD	discrete	Quarterly, Q1 2016	Monthly	40	All values < ELV	86	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS	SELECT			Exceedances were recorded at SW1 in 2015
SW6	Water	COD	discrete	Quarterly, Q1 2016	Monthly	40	All values < ELV	95	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW6 in 2015
SW8	Water	COD	discrete	Quarterly, Q1 2016	Monthly	40	All values < ELV	109	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW8 in 2015
SW1	Water	Dissolved Oxygen	discrete	Quarterly, Q1 2016	Monthly	>60% Saturation	All values < ELV	3.85	%	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW1 in 2015
SW3	Water	Dissolved Oxygen	discrete	Quarterly, Q1 2016	Monthly	>60% Saturation	All values < ELV	10.91	%	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were not recorded at SW3 for DO in 2015
SW4	Water	Dissolved Oxygen	discrete	Quarterly, Q1 2016	Monthly	>60% Saturation	All values < ELV	10.82	%	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were not recorded at SW4 for DO in 2015
SW6	Water	Dissolved Oxygen	discrete	Quarterly, Q1 2016	Monthly	>60% Saturation	All values < ELV	4.46	%	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW6 in 2015
SW8	Water	Dissolved Oxygen	discrete	Quarterly, Q1 2016	Monthly	>60% Saturation	All values < ELV	5.73	%	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW8 in 2015

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)				Lic No:	W0027	Year	2016								
SW1	Water	BOD	discrete	Quarterly, Q2 2016	Monthly	25	All values < ELV	30	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW1 in 2015
SW1	Water	COD	discrete	Quarterly, Q2 2016	Monthly	40	All values < ELV	267	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW1 in 2015
SW6	Water	COD	discrete	Quarterly, Q2 2016	Monthly	40	All values < ELV	119	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW6 in 2015
SW8	Water	COD	discrete	Quarterly, Q2 2016	Monthly	40	All values < ELV	133	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW8 in 2015
SW1	Water	Suspended Solids	discrete	Quarterly, Q2 2016	Monthly	60	All values < ELV	468	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS				Further sampling carried out was significantly below the ELV
SW1	Water	Dissolved Oxygen	discrete	Quarterly, Q2 2016	Monthly	>60% Saturation	All values < ELV	1.76	%	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW1 in 2015
SW3	Water	Dissolved Oxygen	discrete	Quarterly, Q2 2016	Monthly	>60% Saturation	All values < ELV	7.5	%	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were not recorded at SW3 for DO in 2015
SW4	Water	Dissolved Oxygen	discrete	Quarterly, Q2 2016	Monthly	>60% Saturation	All values < ELV	7.38	%	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were not recorded at SW4 for DO in 2015
SW6	Water	Dissolved Oxygen	discrete	Quarterly, Q2 2016	Monthly	>60% Saturation	All values < ELV	1.52	%	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW6 in 2015
SW8	Water	Dissolved Oxygen	discrete	Quarterly, Q2 2016	Monthly	>60% Saturation	All values < ELV	2.16	%	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW8 in 2015
SW1	Water	Ammonia (as N)	discrete	Quarterly, Q2 2016	Monthly	0.2	All values < ELV	1.11	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW1 in 2015
SW6	Water	Ammonia (as N)	discrete	Quarterly, Q2 2016	Monthly	0.2	All values < ELV	0.929	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS				This level is elevated from the value measured in 2015.
SW8	Water	Ammonia (as N)	discrete	Quarterly, Q2 2016	Monthly	0.2	All values < ELV	0.229	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW8 in 2015
SW1	Water	Dissolved Oxygen	discrete	Quarterly, Q3 2016	Monthly	>60% Saturation	All values < ELV	1.43	%	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW1 in 2015
SW3	Water	Dissolved Oxygen	discrete	Quarterly, Q3 2016	Monthly	>60% Saturation	All values < ELV	7.39	%	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were not recorded at SW3 for DO in 2015
SW4	Water	Dissolved Oxygen	discrete	Quarterly, Q3 2016	Monthly	>60% Saturation	All values < ELV	7.51	%	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were not recorded at SW4 for DO in 2015
SW6	Water	Dissolved Oxygen	discrete	Quarterly, Q3 2016	Monthly	>60% Saturation	All values < ELV	4.79	%	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW6 in 2015
SW8	Water	Dissolved Oxygen	discrete	Quarterly, Q3 2016	Monthly	>60% Saturation	All values < ELV	2.1	%	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW8 in 2015
SW6	Water	BOD	discrete	Quarterly, Q3 2016	Monthly	25	All values < ELV	44	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW6 in 2015
SW1	Water	COD	discrete	Quarterly, Q3 2016	Monthly	40	All values < ELV	101	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW1 in 2015
SW6	Water	COD	discrete	Quarterly, Q3 2016	Monthly	40	All values < ELV	856	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS				Exceedances were recorded at SW6 in 2015

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SW8	Water	COD	discrete	Quarterly, Q3 2016	Monthly	40	All values < ELV	121	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS			Exceedances were recorded at SW8 in 2015			
SW6	Water	Suspended Solids	discrete	Quarterly, Q3 2016	Monthly	60	All values < ELV	1948	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS			It was noted by the lab analyst that this elevated result was most likely due to disturbance during sampling			
SW1	Water	Ammonia (as N)	discrete	Quarterly, Q3 2016	Monthly	0.2	All values < ELV	1.89	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS			Exceedances were recorded at SW1 in 2015			
SW6	Water	Ammonia (as N)	discrete	Quarterly, Q3 2016	Monthly	0.2	All values < ELV	2.12	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS			This level is elevated from the value measured in 2015.			
SW8	Water	Ammonia (as N)	discrete	Quarterly, Q3 2016	Monthly	0.2	All values < ELV	0.402	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS			Exceedances were recorded at SW8 in 2015			
SW1	Water	Dissolved Oxygen	discrete	Quarterly, Q4 2016	Monthly	>60% Saturation	All values < ELV	2.25	%	no (if no please enter details in comments box)	DISCRETE METHODS			Exceedances were recorded at SW1 in 2015			
SW3	Water	Dissolved Oxygen	discrete	Quarterly, Q4 2016	Monthly	>60% Saturation	All values < ELV	10.67	%	no (if no please enter details in comments box)	DISCRETE METHODS			Exceedances were not recorded at SW3 for DO in 2015			
SW4	Water	Dissolved Oxygen	discrete	Quarterly, Q4 2016	Monthly	>60% Saturation	All values < ELV	10.6	%	no (if no please enter details in comments box)	DISCRETE METHODS			Exceedances were not recorded at SW4 for DO in 2015			
SW6	Water	Dissolved Oxygen	discrete	Quarterly, Q4 2016	Monthly	>60% Saturation	All values < ELV	3.11	%	no (if no please enter details in comments box)	DISCRETE METHODS			Exceedances were recorded at SW6 in 2015			
SW8	Water	Dissolved Oxygen	discrete	Quarterly, Q4 2016	Monthly	>60% Saturation	All values < ELV	4.85	%	no (if no please enter details in comments box)	DISCRETE METHODS			Exceedances were recorded at SW8 in 2015			
SW1	Water	COD	discrete	Quarterly, Q4 2016	Monthly	40	All values < ELV	74	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS			Exceedances were recorded at SW1 in 2015			
SW6	Water	COD	discrete	Quarterly, Q4 2016	Monthly	40	All values < ELV	68	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS			Exceedances were recorded at SW6 in 2015			
SW8	Water	COD	discrete	Quarterly, Q4 2016	Monthly	40	All values < ELV	105	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS			Exceedances were recorded at SW8 in 2015			
SW1	Water	Ammonia (as N)	discrete	Quarterly, Q4 2016	Monthly	0.2	All values < ELV	1.7	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS			Exceedances were recorded at SW1 in 2015			
SW6	Water	Ammonia (as N)	discrete	Quarterly, Q4 2016	Monthly	0.2	All values < ELV	1.66	mg/L	no (if no please enter details in comments box)	DISCRETE METHODS			This level is elevated from the value measured in 2015.			

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

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

7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?

8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below

**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
	<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>		<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>					
	<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>		<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>	<input type="text" value="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?
						<input type="text" value="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, please include all bunds outside the licenced testing period** (mobile bunds and chemstore included)

- 1 Please provide integrity testing frequency period
  - 2 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)
  - 3 How many bunds are on site?
  - 4 How many of these bunds have been tested within the required test schedule?
  - 5 How many mobile bunds are on site?
  - 6 Are the mobile bunds included in the bund test schedule?
  - 7 How many of these mobile bunds have been tested within the required test schedule?
  - 8 How many sumps on site are included in the integrity test schedule?
  - 9 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?
  - 13 Is the Fire Water Retention Pond included in your integrity test programme?

Yes	Carried out in September 2015
3 years	
No	Leachate Lagoon only containment structure
1	leachate lagoon
1	leachate lagoon
0	
SELECT	N/A
	N/A
0	
0	
Yes	
Yes	
N/A	

**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	other (please specify)	HDPE lined lagoon	Leachate	420 m³		Structural assessment		7-8 September 2015	Yes	Pass		SELECT	Sep-18	
	SELECT					SELECT			SELECT	SELECT		SELECT		

\* Capacity required should comply with 25% or 110% containment rule as detailed in your licence.  
 Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BSS007/EPA Guidance? [bundling and storage guidelines](#)

- 15 Are channels/transfer systems to remote containment systems tested?
- 17 Are channels/transfer systems compliant in both integrity and available volume?

Commentary

Yes	In accordance with Condition 5.13.2 of Licence
No	
SELECT	N/A

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 underground structures and pipelines on site **which failed the integrity test and all which have not been tested within the integrity test period as specified**

2 Please provide integrity testing frequency period

\*please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

No	
SELECT	

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

Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type 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

2016

		Comments	
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes	Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER
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	Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below.	yes	IGV's have been exceeded. A hydrological assessment was carried out in October 2013. Further information was submitted to the Agency on 30th October 2015 and consultation is ongoing regarding this.
5	Is the contamination related to operations at the facility (either current and/or historic)	yes	
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	yes	The unlined cell has been fully capped and a leachate management system has been installed on the unlined portion of the site which has significantly reduced the volume of leachate being discharged. Additional monitoring points have been proposed downgradient of the site. Three monitoring standpipes are proposed to be installed at these locations.
7	Please specify the proposed time frame for the remediation strategy	yes	Upon agreement of monitoring standpipes locations with the EPA
8	Is there a licence condition to carry out/update ELRA for the site?	yes	
9	Has any type of risk assesment been carried out for the site?	no	Closed landfill
10	Has a Conceptual Site Model been developed for the site?	yes	Details are provided in the Hydrological Assesment Oct 2015.

Groundwater/Soil monitoring template		Lic No:	W0027	Year	2016
11	Have potential receptors been identified on and off site?	yes	Details are provided in the Hydrological Assessment Oct 2015.	IGV's have been exceeded and a hydrological assessment has been carried out and submitted to the Agency (October 2015). Correspondance regarding this is ongoing.	
12	Is there evidence that contamination is migrating offsite?	yes	Details are provided in the Hydrological Assessment Oct 2015.		

**Table 1: Upgradient Groundwater monitoring results**

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data
Q1, Q2, Q3 & Q4 2016	MW6	Temperature	Discrete	Quarterly	11.7	11	°C		25 °C	no
Q1, Q2, Q3 & Q4 2016	MW6	pH	Discrete	Quarterly	7.1	7			≥ 6.5 and ≤ 9.5	no
Q1, Q2, Q3 & Q4 2016	MW6	Conductivity	Discrete	Quarterly	1164	1029	µS/cm	800-1875 µs/CM	1000 µs/CM	no
Q1, Q2, Q3 & Q4 2016	MW6	Ammonia	Discrete	Quarterly	6.92	6.51	mg/L	0.065-0.175 mg/L	0.15 mg/L	yes
Q1, Q2, Q3 & Q4 2016	MW6	Chloride	Discrete	Quarterly	30.3	24.6	mg/L	24-187.5 mg/L	30 mg/L	yes
Q1, Q2, Q3 & Q4 2016	MW6	Total Organic Carbon (TOC)	Discrete	Quarterly	12	10.9	mg/L	No abnormal change	No abnormal change	no
27/09/2016	MW6	Dissolved Oxygen	Discrete	Annually	35.9	N/A	% Saturation		No abnormal change	no
29/09/2016	MW6	Ortho-phosphate	Discrete	Annually	<0.006	N/A	mg/L		0.03	no
03/10/2016	MW6	Cyanide	Discrete	Annually	1.5	N/A	mg/L	0.0375	0.01	no
03/10/2016	MW6	Fluoride	Discrete	Annually	0.12	N/A	mg/L		1	no
30/09/2016	MW6	Sulphate	Discrete	Annually	59.6	N/A	mg/L	187.5	200	yes
29/09/2016	MW6	Alkalinity-total	Discrete	Annually	489	N/A	mg/L		No abnormal change	yes
03/10/2016	MW6	Total solids	Discrete	Annually	3145	N/A	mg/L		1000	no
03/10/2016	MW6	Boron	Discrete	Annually	<0.5	N/A	µg/L	750	1000	no
03/10/2016	MW6	Sodium	Discrete	Annually	14.1	N/A	mg/L	150	150	yes
03/10/2016	MW6	Magnesium	Discrete	Annually	21.9	N/A	mg/L		50	yes
03/10/2016	MW6	Potassium	Discrete	Annually	10.9	N/A	mg/L		5	yes
03/10/2016	MW6	Calcium	Discrete	Annually	557.1	N/A	mg/L		200	yes
03/10/2016	MW6	Chromium	Discrete	Annually	9.7	N/A	µg/L	37.5	30	yes
03/10/2016	MW6	Iron	Discrete	Annually	2900	N/A	µg/L		200	yes
03/10/2016	MW6	Manganese	Discrete	Annually	370	N/A	µg/L	50	50	yes
03/10/2016	MW6	Nickel	Discrete	Annually	31.8	N/A	µg/L	15	20	yes
03/10/2016	MW6	Copper	Discrete	Annually	0.01	N/A	µg/L	1500	30	no
03/10/2016	MW6	Zinc	Discrete	Annually	160	N/A	µg/L		100	yes
03/10/2016	MW6	Cadmium	Discrete	Annually	1.2	N/A	µg/L	0.00375	0.005	yes

Groundwater/Soil monitoring template				Lic No:	W0027	Year	2016			
03/10/2016	MW6	Lead	Discrete	Annually	5.4	N/A	µg/L	0.01875	0.01	yes
03/10/2016	MW6	Mercury	Discrete	Annually	0.12	N/A	µg/L	0.00075	0.001	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	GTVs*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
Q1, Q2, Q3 & Q4 2016	MW3	Temperature	Discrete	Quarterly	12.6	11.2	°C		25 °C	no
Q1, Q2, Q3 & Q4 2016	MW3	pH	Discrete	Quarterly	7.2	7			≥ 6.5 and ≤ 9.5	no
Q1, Q2, Q3 & Q4 2016	MW3	Conductivity	Discrete	Quarterly	638	585	µS/cm	800-1875 µs/CM	1000 µs/CM	no
Q1, Q2, Q3 & Q4 2016	MW3	Ammonia	Discrete	Quarterly	3.3	2.9	mg/L	0.065-0.175 mg/L	0.15 mg/L	no
Q1, Q2, Q3 & Q4 2016	MW3	Chloride	Discrete	Quarterly	27	22.6	mg/L	24-187.5 mg/L	30 mg/L	no
Q1, Q2, Q3 & Q4 2016	MW3	Total Organic Carbon (TOC)	Discrete	Quarterly	21.5	19.9	mg/L	No abnormal change	No abnormal change	no
27/09/2016	MW3	Dissolved Oxygen	Discrete	Annually	24.2	N/A	% Saturation		No abnormal change	no
29/09/2016	MW3	Ortho-phosphate	Discrete	Annually	<0.006	N/A	mg/L		0.03	no
03/10/2016	MW3	Cyanide	Discrete	Annually	2.7	N/A	mg/L	0.0375	0.01	yes
03/10/2016	MW3	Fluoride	Discrete	Annually	0.36	N/A	mg/L		1	no
30/09/2016	MW3	Sulphate	Discrete	Annually	<1.8	N/A	mg/L	187.5	200	no
29/09/2016	MW3	Alkalinity-total	Discrete	Annually	427	N/A	mg/L		No abnormal change	no
03/10/2016	MW3	Total solids	Discrete	Annually	2440	N/A	mg/L		1000	yes
03/10/2016	MW3	Boron	Discrete	Annually	<0.5	N/A	µg/L	750	1000	no
03/10/2016	MW3	Sodium	Discrete	Annually	9.7	N/A	mg/L	150	150	no
03/10/2016	MW3	Magnesium	Discrete	Annually	9.7	N/A	mg/L		50	no
03/10/2016	MW3	Potassium	Discrete	Annually	2	N/A	mg/L		5	no
03/10/2016	MW3	Calcium	Discrete	Annually	539.2	N/A	mg/L		200	yes
03/10/2016	MW3	Chromium	Discrete	Annually	11.1	N/A	µg/L	37.5	30	yes
03/10/2016	MW3	Iron	Discrete	Annually	4600	N/A	µg/L		200	yes
03/10/2016	MW3	Manganese	Discrete	Annually	620	N/A	µg/L	50	50	yes
03/10/2016	MW3	Nickel	Discrete	Annually	38.6	N/A	µg/L	15	20	yes
03/10/2016	MW3	Copper	Discrete	Annually	0.009	N/A	µg/L	1500	30	no
03/10/2016	MW3	Zinc	Discrete	Annually	39	N/A	µg/L		100	yes
03/10/2016	MW3	Cadmium	Discrete	Annually	0.8	N/A	µg/L	0.00375	0.005	yes
03/10/2016	MW3	Lead	Discrete	Annually	5.3	N/A	µg/L	0.01875	0.01	yes
03/10/2016	MW3	Mercury	Discrete	Annually	0.1	N/A	µg/L	0.00075	0.001	yes

Groundwater/Soil monitoring template		Lic No:	W0027	Year	2016
<p>*please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the Groundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the EPA.</p>		<a href="#">Groundwater monitoring template</a>			
<p>More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31)</p>		<a href="#">Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013).</a>			
<p>**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)</p>		<a href="#">Groundwater regulations</a> <a href="#">Drinking water (private supply) standards</a> <a href="#">Drinking water (public supply) standards</a> <a href="#">Interim Guideline Values (IGV)</a> <a href="#">Surface water EQS</a> <a href="#">GTV's</a>			

**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

## Environmental Liabilities template

Lic No:

W0027

Year

2016

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

		Commentary	
1	ELRA initial agreement status	Required but not submitted	Landfill closed and fully restored.
2	ELRA review status	Review required and not completed;	
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	N/A	
6	Financial Provision for ELRA - type	Other please specify	Aftercare budget held by Galway County Council.
7	Financial provision for ELRA expiry date	N/A	
8	Closure plan initial agreement status	Closure plan submitted and agreed by EPA	
9	Closure plan review status	Review required and completed	
10	Financial Provision for Closure status	Submitted and agreed by EPA	
11	Financial Provision for Closure - amount of cover	Aftercare budget held by Galway County Council.	
12	Financial Provision for Closure - type	Other please specify	
13	Financial provision for Closure expiry date		



<b>Environmental Management Programme/Continuous Improvement Programme template</b>	Lic No:	W0027	Year	2016
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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 Closed facility.
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	No Closed facility.

**Environmental Management Programme (EMP) report**

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Landfill Gas Management	To install/replace redundant landfill gas boreholes where required.	0	The installation of new gas wells will be carried out during 2017 as the need for new wells is identified.	Individual	Installation of infrastructure
Groundwater protection	Drill two new groundwater wells downstream of the landfill site as recommended in the site's hydrogeological report. Approval is presently being sought from the EPA in regard the location of these wells.	20	Wells will be installed following approval of locations from the epa.	Individual	Increased compliance with licence conditions
SELECT		SELECT		SELECT	SELECT

**Noise monitoring summary report**      Lic No: W0027      Year: 2016

- 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? [Noise Guidance note NG4](#)
- 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?

**Table N1: Noise monitoring summary**

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA <sub>eq</sub>	LA <sub>90</sub>	LA <sub>10</sub>	LA <sub>max</sub>	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 <u>site</u> compliant with noise limits (day/evening/night)?
								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?
Any additional comments? (less than 200 words)

## Resource Usage/Energy efficiency summary

Lic No:

W0027

Year

2016

## 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

Audit planned for mid 2017	
SELECT	
SELECT	

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)	120.25	120.25		
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)				
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)				
Natural gas (m3)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

\* 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 <sup>3</sup> /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr
Groundwater	There is no water usage on-site.					
Surface water						
Public supply						
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)	No waste is generated on-site.				
Non-Hazardous (Tonnes)					

<b>Resource Usage/Energy efficiency summary</b>	Lic No: W0027	Year	2016
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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
Energy audit scheduled for 2017			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: W0027 Year 2016

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

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

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

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
09/01/2016	Abatement equipment offline	Flare	1. Minor	No Uncontrolled release	Other (add details)	Gas flare went off due to high oxygen alarm	Normal activities	EPA	New	None Required	None Required	Complete	09/01/2016	Low
11/02/2016	Abatement equipment offline	Flare	1. Minor	No Uncontrolled release	Other (add details)	Gas flare went off due to high oxygen alarm	Normal activities	EPA	New	None Required	None Required	Complete	11/02/2016	Low
24/02/2016	Abatement equipment offline	Flare	1. Minor	No Uncontrolled release	Other (add details)	Gas flare went off and low methane alarm was received	Normal activities	EPA	New	None Required	None Required	Complete	24/02/2016	Low
11/07/2016	Abatement equipment offline	Flare	1. Minor	No Uncontrolled release	Other (add details)	Flare went off due to low levels of methane	Normal activities	EPA	New	None Required	None Required	Complete	12/07/2016	Low



<b>WASTE SUMMARY</b>	Lic No:	W0027	Year	2016
<b>SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES</b>		<a href="#">PRTR facility logon</a>	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 1 boundaries is to be captured through PRTR reporting)

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

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

Additional Information	
Yes	Waste accepted to recycling facility only. Landfill closed.
No	
No	

**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)	EWC code	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which applies to relevant EWC code <a href="#">European Waste Catalogue EWC codes</a>	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 -
<i>refer to PRTR for data on Civic Amenity Site</i>											

**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

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	
Yes	
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
N/A				

**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	
Total landfill	Mid 1980's	2005	No	Public	Non Hazardous	N/A	No	No	No	97,400	36,000	61,400	Composite liner system

<b>WASTE SUMMARY</b>	Lic No:	W0027	Year	2016
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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
Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	

→ 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 <sup>2</sup> 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					
All capped						

\*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?

SELECT  
SELECT

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

Volume of leachate in reporting year(m <sup>3</sup> )	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH <sub>4</sub> ) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments
56,349	683.2	7789.1	5412	16164.9	Ballinasloe Wastewater Treatment Plant		

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 <sup>3</sup>	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
479,926			Yes	479,926 m <sup>3</sup> relates to methane captured and flared





[Guidance to completing the PRTR workbook](#)

# PRTR Returns Workbook

Version 1.1.19

<b>REFERENCE YEAR</b>	2016
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## 1. FACILITY IDENTIFICATION

Parent Company Name	Galway County Council
Facility Name	Pollboy Landfill Facility - Ballinasloe Town Council
PRTR Identification Number	W0027
Licence Number	W0027-02

### Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Pollboy
Address 2	Ballinasloe
Address 3	
Address 4	
Country	Galway
Coordinates of Location	Ireland
River Basin District	-8.22343 53.3127
NACE Code	IEGBNISH
Main Economic Activity	3821
<b>AER Returns Contact Name</b>	Treatment and disposal of non-hazardous waste
<b>AER Returns Contact Email Address</b>	Brendan Goode
<b>AER Returns Contact Position</b>	bgoode@galwaycoco.ie
<b>AER Returns Contact Telephone Number</b>	Facility Manager
<b>AER Returns Contact Mobile Phone Number</b>	091 506086
<b>AER Returns Contact Fax Number</b>	0871199942
<b>Production Volume</b>	
<b>Production Volume Units</b>	0.0
<b>Number of Installations</b>	0
<b>Number of Operating Hours in Year</b>	0
<b>Number of Employees</b>	1
<b>User Feedback/Comments</b>	The CO has decreased significantly by 59.5% since the 2015 reported levels. It is assumed that this is decreasing as part of the natural lifecycle of the site. It should also be noted that this is well below the reporting threshold of 500,000kgs. Proposed to remove from the PRTR in future years given that it is below the reporting threshold.
<b>Web Address</b>	

## 2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
-----------------	---------------

5(d)	Landfills
5(c)	Installations for the disposal of non-hazardous waste
50.1	General

**3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)**

Is it applicable?	
Have you been granted an exemption ?	
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

**4. WASTE IMPORTED/ACCEPTED ONTO SITE**

[Guidance on waste imported/accepted onto site](#)

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	
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This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : W0027 | Facility Name : Pollboy Landfill Facility - Ballinasloe Town Council | Filename : W0027\_2016.xlsm | Return Year : 2016 |

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**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

RELEASERS TO AIR		Please enter all quantities in this section in KGs						
No. Annex II	POLLUTANT Name	M/C/E	METHOD		QUANTITY			
			Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
01	Methane (CH4)	C	OTH	Gas Sim 2.5 & Site data	0.0	594367.421	0.0	594367.421
03	Carbon dioxide (CO2)	C	OTH	Gas Sim 2.5 & Site data	0.0	812135.911	0.0	812135.911
02	Carbon monoxide (CO)	C	OTH	Gas Sim 2.5	0.0	174.96	0.0	174.96

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

**SECTION B : REMAINING PRTR POLLUTANTS**

RELEASERS TO AIR		Please enter all quantities in this section in KGs						
No. Annex II	POLLUTANT Name	M/C/E	METHOD		QUANTITY			
			Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
15	Chlorofluorocarbons (CFCs)	C	OTH	Gas Sim 2.5	0.0	1.15	0.0	1.15

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

**SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)**

RELEASERS TO AIR		Please enter all quantities in this section in KGs						
Pollutant No.	POLLUTANT Name	M/C/E	METHOD		QUANTITY			
			Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

**Additional Data Requested from Landfill operators**

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill:	Pollboy Landfill Facility - Ballinasloe Town Council				
Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used		Facility Total Capacity m3 per hour
	Total estimated methane generation (as per site model)	E	OTH	Gassim 2.5	N/A
	Methane flared	M	OTH	Site Data	750.0 (Total Flaring Capacity)
	Methane utilised in engine/s	0.0			0.0 (Total Utilising Capacity)
	Net methane emission (as reported in Section A above)	C	OTH	Methane generation - Flared	N/A

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

| PRTR#: W0027 | Facility Name : Pollboy Landfill Facility - Ballinasloe Town Council | Filename : W0027\_2016.xlsm | Return Year : 2016 |

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**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		Method Used			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

**SECTION B : REMAINING PRTR POLLUTANTS**

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		Method Used			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

**SECTION C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)**

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		Method Used			QUANTITY			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR# : W0027 | Facility Name : Pollboy Landfill Facility - Ballinasloe Town Council | Filename : W

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**SECTION A : PRTR POLLUTANTS**

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
					0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

**SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)**

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
Pollutant No.	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
					0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

| PRTR# : W0027 | Facility Name : Pollboy Landfill Facility - Ballinasloe Town Council | Filename : W0027\_2016.xlsm | Return Year : 2016 |

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**SECTION A : PRTR POLLUTANTS**

POLLUTANT		RELEASURES TO LAND			Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

**SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)**

POLLUTANT		RELEASURES TO LAND			Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR#: W0027 | Facility Name : Pollboy Landfill Facility - Ballinasloe Town Council | Filename : W0027\_2016.xlsm | Return Year : 2016 |

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Please enter all quantities on this sheet in Tonnes

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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	Haz Waste : Address of Next Destination Facility	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		Haz Waste : Name and Licence/Permit No of Recover/Disposer	Non Haz Waste: Address of Recover/Disposer		
To Other Countries	16 05 04	Yes	0.264	gases in pressure containers (including halons) containing dangerous substances	R13	M	Weighed	Abroad	ENVA Portlaoise, Galway Metal Co. Ltd., WR-05	Oranmore,,Co.Galway,,Ireland	Recyfuel ,BE0459.735.458,Engis, , , Belgium	Engis, , , Belgium
Within the Country	17 04 05	No	21.89	iron and steel	R13	M	Weighed	Offsite in Ireland		Ballinasloe WwTP, Pollboy, Balinasloe, Co Galway, Ireland		
Within the Country	19 07 03	No	56349.0	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	Ballinasloe WwTP, MSM Recycling, WFP-TN-0003-02			
Within the Country	20 01 02	No	8.64	glass	R13	M	Weighed	Offsite in Ireland	Textile Recycling Ltd., WCP-DC-08-1225-01	Road, Tallaght Dublin,,Ireland		
To Other Countries	20 01 23	Yes	0.15	discarded equipment containing chlorofluorocarbons	R4	M	Weighed	Abroad	ENVA Portlaoise, Clonmanim Industrial Estate, Portlaoise, Laois, Ireland		Recyfuel ,BE0459.735.458,Engis, , , Belgium	Engis, , , Belgium
To Other Countries	20 01 27	Yes	3.622	paint, inks, adhesives and resins containing dangerous substances	R5	M	Weighed	Abroad	ENVA Portlaoise, Clonmanim Industrial Estate, Portlaoise, Laois, Ireland		Recyfuel ,BE0459.735.458,Engis, , , Belgium	Engis, , , Belgium
To Other Countries	20 01 35	Yes	10.967	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components	R4	M	Weighed	Abroad	ENVA Portlaoise, Clonmanim Industrial Estate, Portlaoise, Laois, Ireland		Recyfuel ,BE0459.735.458,Engis, , , Belgium	Engis, , , Belgium
Within the Country	20 01 36	No	61.478	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK Metals Recycling, W013/03	Cappincur, Tullamore, Co. Offaly,,Ireland		
Within the Country	20 01 38	No	49.54	wood other than that mentioned in 20 01 37	R13	M	Weighed	Offsite in Ireland	Barna Waste Athlone,, Cartronroy,,Athlone,," ,Ireland			
Within the Country	20 03 01	No	123.49	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Barna Waste Athlone,, Cartronroy,,Athlone,," ,Ireland			
Within the Country	20 03 07	No	4.512	bulky waste	R13	M	Weighed	Offsite in Ireland	Barna Waste Athlone,, Cartronroy,,Athlone,," ,Ireland			
Within the Country	20 02 02	No	2.34	soil and stones	R13	M	Weighed	Offsite in Ireland	Barna Waste Athlone,, Cartronroy,,Athlone,," ,Ireland			
To Other Countries	16 01 07	Yes	0.36	oil filters	R13	M	Weighed	Abroad	ENVA Portlaoise, Clonmanim Industrial Estate, Portlaoise, Laois, Ireland		Recyfuel ,BE0459.735.458,Engis, , , Belgium	Engis, , , Belgium
<b>To Other Countries</b>	<b>16 06 01</b>	<b>Yes</b>	<b>0.622</b>	<b>lead batteries</b>	<b>R4</b>	<b>M</b>	<b>Weighed</b>	<b>Abroad</b>	<b>ENVA Portlaoise, Clonmanim Industrial Estate, Portlaoise, Laois, Ireland</b>		<b>Recyfuel ,BE0459.735.458,Engis, , , Belgium</b>	<b>Engis, , , Belgium</b>

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