

Facility Information Summary	
AER Reporting Year	2015
Licence Register Number	w0067-002
Name of site	Rathroeen Landfill, killala Rd, Ballina Mayo
Site Location	
NACE Code	
Class/Classes of Activity	
National Grid Reference (6E, 6 N)	
<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>	
Landfilling to Cell 3B Raathroeen Landfill	

**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.

Michael Hegarty	25/03/2016
Signature	Date
Group/Facility manager	
(or nominated, suitably qualified and experienced deputy)	

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

No	Additional information
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**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

3 Was all monitoring carried out in accordance with EPA guidance [Basic air monitoring checklist](#) note AG2 and using the basic air monitoring checklist? AGN2

SELECT	
SELECT	

**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 therof	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
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		

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

**Continuous Monitoring**

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)

5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below

6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?

7 Did your site experience any abatement system bypasses? If yes please detail them in table A3 below

SELECT	
SELECT	
SELECT	
SELECT	

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

Emission reference no:	Parameter/ Substance	ELV in licence or any revision therof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
	SELECT			SELECT	SELECT					
	SELECT			SELECT	SELECT					
	SELECT			SELECT	SELECT					
	SELECT			SELECT	SELECT					
	SELECT			SELECT	SELECT					

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

\* 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

No	
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**Table A4: Solvent Management Plan Summary** [Solvent regulations](#) Please refer to linked solvent regulations to complete table 5 and 6

**Total VOC Emission limit value**

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 therof	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	Total emission of Solvent to air (kg)
Total								

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

SELECT	
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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

SELECT	
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**Table W1 Storm 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	
SW 1	upstream	DO		16.11.2015			7.2	% sat		
SW 1	upstream	Ammonical Nitrogen		16.11.2015			0.324	mg/l N		
SW 1	upstream	BOD		16.11.2015			1	mg/l O2		
SW 1	upstream	COD		16.11.2015			58	mg/l O2		
SW 1	upstream	Chloride		16.11.2015			33.3	mg/l Cl		
SW 1	upstream	Conductivity		16.11.2015			641	mS/cm		
SW 1	upstream	pH		16.11.2015			6.8	pH units		
SW 1	upstream	Total Suspended Solids		16.11.2015			2	mg/l		
SW 1	upstream	Sulphate		16.11.2015			94.9	mg/l SO4		
SW 1	upstream	DO		13.07.2015			6.58	% sat		
SW 1	upstream	Ammonical Nitrogen		13.07.2015			0.064	mg/l N		
SW 1	upstream	BOD		13.07.2015			1	mg/l O2		
SW 1	upstream	COD		13.07.2015			36	mg/l O2		
SW 1	upstream	Chloride		13.07.2015			27.2	mg/l Cl		
SW 1	upstream	Conductivity		13.07.2015			518	mS/cm		
SW 1	upstream	pH		13.07.2015			7.6	pH units		
SW 1	upstream	Total Suspended Solids		13.07.2015			2	mg/l		
SW 1	upstream	Total Phosphorous		13.07.2015			0.07	mg/l P		
SW 1	upstream	Cadmium		13.07.2015			0.5	ug/l		
SW 1	upstream	Calcium		13.07.2015			140	mg/l		
SW 1	upstream	Chromium		13.07.2015			0.7	ug/l		
SW 1	upstream	Copper		13.07.2015			1	ug/l		
SW 1	upstream	Iron		13.07.2015			230	ug/l		
SW 1	upstream	Lead		13.07.2015			0.5	ug/l		
SW 1	upstream	Magnesium		13.07.2015			8	mg/l		
SW 1	upstream	Manganese		13.07.2015			21	ug/l		
SW 1	upstream	Mercury		13.07.2015			0.1	ug/l		
SW 1	upstream	Potassium		13.07.2015			6	mg/l		
SW 1	upstream	Sulphate		13.07.2015			78.3	mg/l SO4		
SW 1	upstream	Sodium		13.07.2015			14	mg/l		
SW 1	upstream	Alkalinity		13.07.2015			252	mg/l CaCO3		
SW 1	upstream	Zinc		13.07.2015			5	ug/l		
SW 1	upstream	Nickel		13.07.2015			4	ug/l		
SW 1	upstream	Boron		13.07.2015			25	ug/l		
SW 1	upstream	DO		29.04.2015			5.8	% sat		
SW 1	upstream	Ammonical Nitrogen		29.04.2015			0.05	mg/l N		
SW 1	upstream	BOD		29.04.2015			1	mg/l O2		
SW 1	upstream	COD		29.04.2015			45	mg/l O2		
SW 1	upstream	Chloride		29.04.2015			39.8	mg/l Cl		
SW 1	upstream	Conductivity		29.04.2015			518	mS/cm		
SW 1	upstream	pH		29.04.2015			7.5	pH units		
SW 1	upstream	Total Suspended Solids		29.04.2015			2	mg/l		
SW 1	upstream	Sulphate		29.04.2015			52.4	mg/l SO4		
SW 1	upstream	DO		23.03.2015			5.45	% sat		
SW 1	upstream	Ammonical Nitrogen		23.03.2015			0.019	mg/l N		
SW 1	upstream	BOD		23.03.2015			1	mg/l O2		
SW 1	upstream	COD		23.03.2015			39	mg/l O2		
SW 1	upstream	Chloride		23.03.2015			59.1	mg/l Cl		
SW 1	upstream	Conductivity		23.03.2015			580	mS/cm		
SW 1	upstream	pH		23.03.2015			7.6	pH units		
SW 1	upstream	Total Suspended Solids		23.03.2015			2	mg/l		
SW 1	upstream	Sulphate		23.03.2015			53.6	mg/l SO4		
SW 2	onsite	mg/l		13.07.2015			7.21	mg/l		
SW 2	onsite	mg/l N		13.07.2015			1.8	mg/l N		
SW 2	onsite	mg/l O2		13.07.2015			1	mg/l O2		
SW 2	onsite	mg/l O2		13.07.2015			47	mg/l O2		
SW 2	onsite	mg/l Cl		13.07.2015			37.1	mg/l Cl		
SW 2	onsite	mS/cm		13.07.2015			641	mS/cm		
SW 2	onsite	pH units		13.07.2015			7.3	pH units		
SW 2	onsite	mg/l		13.07.2015			2	mg/l		
SW 2	onsite	mg/l P		13.07.2015			0.06	mg/l P		
SW 2	onsite	ug/l		13.07.2015			0.5	ug/l		
SW 2	onsite	mg/l		13.07.2015			156	mg/l		
SW 2	onsite	ug/l		13.07.2015			0.6	ug/l		
SW 2	onsite	ug/l		13.07.2015			1	ug/l		
SW 2	onsite	ug/l		13.07.2015			1006	ug/l		
SW 2	onsite	ug/l		13.07.2015			0.5	ug/l		
SW 2	onsite	mg/l		13.07.2015			11	mg/l		
SW 2	onsite	ug/l		13.07.2015			89	ug/l		
SW 2	onsite	ug/l		13.07.2015			0.1	ug/l		
SW 2	onsite	mg/l		13.07.2015			6	mg/l		
SW 2	onsite	mg/l SO4		13.07.2015			121	mg/l SO4		
SW 2	onsite	mg/l		13.07.2015			21	mg/l		
SW 2	onsite	mg/l CaCO3		13.07.2015			249	mg/l CaCO3		
SW 2	onsite	ug/l		13.07.2015			5	ug/l		
SW 2	onsite	ug/l		13.07.2015			5	ug/l		
SW 2	onsite	mg/l		13.07.2015			26	mg/l		
SW 2	onsite	mg/l		29.04.2015			5.9	mg/l		
SW 2	onsite	mg/l N		29.04.2015			0.02	mg/l N		
SW 2	onsite	mg/l O2		29.04.2015			1	mg/l O2		
SW 2	onsite	mg/l O2		29.04.2015			38	mg/l O2		
SW 2	onsite	mg/l Cl		29.04.2015			39.6	mg/l Cl		
SW 2	onsite	mS/cm		29.04.2015			514	mS/cm		
SW 2	onsite	pH units		29.04.2015			7.4	pH units		
SW 2	onsite	mg/l		29.04.2015			2	mg/l		
SW 2	onsite	mg/l SO4		29.04.2015			52.3	mg/l SO4		
SW 2	onsite	mg/l		23.03.2015			4.85	mg/l		
SW 2	onsite	mg/l N		23.03.2015			2.08	mg/l N		
SW 2	onsite	mg/l O2		23.03.2015			1	mg/l O2		
SW 2	onsite	mg/l O2		23.03.2015			46	mg/l O2		
SW 2	onsite	mg/l Cl		23.03.2015			45.9	mg/l Cl		
SW 2	onsite	mS/cm		23.03.2015			682	mS/cm		
SW 2	onsite	pH units		23.03.2015			6.9	pH units		
SW 2	onsite	mg/l		23.03.2015			2	mg/l		
SW 2	onsite	mg/l SO4		23.03.2015			79.2	mg/l SO4		
SW 3	downstream	DO		13.07.15			6.93	mg/l		
SW 3	downstream	Ammonical Nitrogen		13.07.15			0.082	mg/l N		
SW 3	downstream	BOD		13.07.15			1	mg/l O2		
SW 3	downstream	COD		13.07.15			32	mg/l O2		
SW 3	downstream	Chloride		13.07.15			34.6	mg/l Cl		
SW 3	downstream	Conductivity		13.07.15			577	mS/cm		
SW 3	downstream	pH		13.07.15			7.9	pH units		
SW 3	downstream	Total Suspended Solids		13.07.15			2	mg/l		
SW 3	downstream	Total Phosphorous		13.07.15			0.05	mg/l P		
SW 3	downstream	Cadmium		13.07.15			0.5	ug/l		
SW 3	downstream	Calcium		13.07.15			150	mg/l		
SW 3	downstream	Chromium		13.07.15			0.5	ug/l		
SW 3	downstream	Copper		13.07.15			1	ug/l		
SW 3	downstream	Iron		13.07.15			130	ug/l		
SW 3	downstream	Lead		13.07.15			0.5	ug/l		
SW 3	downstream	Magnesium		13.07.15			10	mg/l		
SW 3	downstream	Manganese		13.07.15			5	ug/l		
SW 3	downstream	Mercury		13.07.15			0.1	ug/l		
SW 3	downstream	Potassium		13.07.15			6	mg/l		
SW 3	downstream	Sulphate		13.07.15			50.5	mg/l SO4		
SW 3	downstream	Sodium		13.07.15			17	mg/l		
SW 3	downstream	Alkalinity		13.07.15			308	mg/l CaCO3		
SW 3	downstream	Zinc		13.07.15			5	ug/l		
SW 3	downstream	Nickel		13.07.15			4	ug/l		
SW 3	downstream	Boron		13.07.15			28	ug/l		
SW 3	downstream	DO		29.04.15			6.3	mg/l		
SW 3	downstream	Ammonical Nitrogen		29.04.15			0.106	mg/l N		
SW 3	downstream	BOD		29.04.15			1	mg/l O2		
SW 3	downstream	COD		29.04.15			22	mg/l O2		
SW 3	downstream	Chloride		29.04.15			32.4	mg/l Cl		
SW 3	downstream	Conductivity		29.04.15			623	mS/cm		
SW 3	downstream	pH		29.04.15			7.9	pH units		
SW 3	downstream	Total Suspended Solids		29.04.15			2	mg/l		

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)				Lic No:	w0067-002	Year	2015
SW 3	downstream	Sulphate	29.04.15		44.5	mg/l SO4	
SW 3	downstream	DO	23.03.2015		5.06	mg/l	
SW 3	downstream	Ammonical Nitrogen	23.03.2015		0.023	mg/l N	
SW 3	downstream	BOD	23.03.2015		1	mg/l O2	
SW 3	downstream	COD	23.03.2015		24	mg/l O2	
SW 3	downstream	Chloride	23.03.2015		32.8	mg/l Cl	
SW 3	downstream	Conductivity	23.03.2015		619	mS/cm	
SW 3	downstream	pH	23.03.2015		8.1	pH units	
SW 3	downstream	Total Suspended Solids	23.03.2015		2	mg/l	
SW 3	downstream	Sulphate	23.03.2015		41.1	mg/l SO4	
SW 4	downstream	DO	13.07.15		6.87	% sat	
SW 4	downstream	Ammonical Nitrogen	13.07.15		2.55	mg/l N	
SW 4	downstream	BOD	13.07.15		1	mg/l O2	
SW 4	downstream	COD	13.07.15		44	mg/l O2	
SW 4	downstream	Chloride	13.07.15		36.6	mg/l Cl	
SW 4	downstream	Conductivity	13.07.15		624	mS/cm	
SW 4	downstream	pH	13.07.15		7.6	pH units	
SW 4	downstream	Total Suspended Solids	13.07.15		2	mg/l	
SW 4	downstream	Total Phosphorous	13.07.15		0.05	mg/l P	
SW 4	downstream	Cadmium	13.07.15		0.5	ug/l	
SW 4	downstream	Calcium	13.07.15		141	mg/l	
SW 4	downstream	Chromium	13.07.15		0.5	ug/l	
SW 4	downstream	Copper	13.07.15		1	ug/l	
SW 4	downstream	Iron	13.07.15		457	ug/l	
SW 4	downstream	Lead	13.07.15		0.5	ug/l	
SW 4	downstream	Magnesium	13.07.15		12	mg/l	
SW 4	downstream	Manganese	13.07.15		77	ug/l	
SW 4	downstream	Mercury	13.07.15		0.1	ug/l	
SW 4	downstream	Potassium	13.07.15		7	mg/l	
SW 4	downstream	Sulphate	13.07.15		70.6	mg/l SO4	
SW 4	downstream	Sodium	13.07.15		22	mg/l	
SW 4	downstream	Alkalinity	13.07.15		301	mg/l CaCO3	
SW 4	downstream	Zinc	13.07.15		5	ug/l	
SW 4	downstream	Nickel	13.07.15		5	ug/l	
SW 4	downstream	boron	13.07.15			38	
SW 4	downstream	DO	29.04.15		6.3	% sat	
SW 4	downstream	Ammonical Nitrogen	29.04.15		2.19	mg/l N	
SW 4	downstream	BOD	29.04.15		1	mg/l O2	
SW 4	downstream	COD	29.04.15		48	mg/l O2	
SW 4	downstream	Chloride	29.04.15		40.3	mg/l Cl	
SW 4	downstream	Conductivity	29.04.15		649	mS/cm	
SW 4	downstream	pH	29.04.15		7	pH units	
SW 4	downstream	Total Suspended Solids	29.04.15		11	mg/l	
SW 4	downstream	Sulphate	29.04.15		67.3	mg/l SO4	
SW 4	downstream	DO	23.03.2015		4.89	% sat	
SW 4	downstream	Ammonical Nitrogen	23.03.2015		2.54	mg/l N	
SW 4	downstream	BOD	23.03.2015		1	mg/l O2	
SW 4	downstream	COD	23.03.2015		42	mg/l O2	
SW 4	downstream	Chloride	23.03.2015		43.6	mg/l Cl	
SW 4	downstream	Conductivity	23.03.2015		716	mS/cm	
SW 4	downstream	pH	23.03.2015		7.2	pH units	
SW 4	downstream	Total Suspended Solids	23.03.2015		3	mg/l	
SW 4	downstream	Sulphate	23.03.2015		79.8	mg/l SO4	
SW5	downstream	DO	13.07.2015		6.83	mg/l	
SW5	downstream	Ammonical Nitrogen	13.07.2015		0.644	mg/l N	
SW5	downstream	BOD	13.07.2015		1	mg/l O2	
SW5	downstream	COD	13.07.2015		26	mg/l O2	
SW5	downstream	Chloride	13.07.2015		33.2	mg/l Cl	
SW5	downstream	Conductivity	13.07.2015		586	mS/cm	
SW5	downstream	pH	13.07.2015		8.1	pH units	
SW5	downstream	Total Suspended Solids	13.07.2015		2	mg/l	
SW5	downstream	Total Phosphorous	13.07.2015		0.05	mg/l P	
SW5	downstream	Cadmium	13.07.2015		0.5	ug/l	
SW5	downstream	Calcium	13.07.2015		143	mg/l	
SW5	downstream	Chromium	13.07.2015		0.5	ug/l	
SW5	downstream	Copper	13.07.2015		1	ug/l	
SW5	downstream	Iron	13.07.2015		195	ug/l	
SW5	downstream	Lead	13.07.2015		0.5	ug/l	
SW5	downstream	Magnesium	13.07.2015		9	mg/l	
SW5	downstream	Manganese	13.07.2015		24	ug/l	
SW5	downstream	Mercury	13.07.2015		0.1	ug/l	
SW5	downstream	Potassium	13.07.2015		6	mg/l	
SW5	downstream	Sulphate	13.07.2015		41.8	mg/l SO4	
SW5	downstream	Sodium	13.07.2015		16	mg/l	
SW5	downstream	Alkalinity	13.07.2015		360	mg/l CaCO3	
SW5	downstream	Zinc	13.07.2015		5	ug/l	
SW5	downstream	Nickel	13.07.2015		3	ug/l	
SW5	downstream	Boron	13.07.2015		23		
SW5	downstream	DO	29.04.15		6.5	mg/l	
SW5	downstream	Ammonical Nitrogen	29.04.15		0.545	mg/l N	
SW5	downstream	BOD	29.04.15		1	mg/l O2	
SW5	downstream	COD	29.04.15		26	mg/l O2	
SW5	downstream	Chloride	29.04.15		32.3	mg/l Cl	
SW5	downstream	Conductivity	29.04.15		625	mS/cm	
SW5	downstream	pH	29.04.15		7.8	pH units	
SW5	downstream	Total Suspended Solids	29.04.15		2	mg/l	
SW5	downstream	Sulphate	29.04.15		45.5	mg/l SO4	
SW5	downstream	DO	23.03.2015		4.78	mg/l	
SW5	downstream	Ammonical Nitrogen	23.03.2015		0.005	mg/l N	
SW5	downstream	BOD	23.03.2015		1	mg/l O2	
SW5	downstream	COD	23.03.2015		20	mg/l O2	
SW5	downstream	Chloride	23.03.2015		32.7	mg/l Cl	
SW5	downstream	Conductivity	23.03.2015		617	mS/cm	
SW5	downstream	pH	23.03.2015		8.3	pH units	
SW5	downstream	Total Suspended Solids	23.03.2015		2	mg/l	
SW5	downstream	Sulphate	23.03.2015		41.1	mg/l SO4	
	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

SELECT Additional information

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

4 SELECT

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

Emission reference no:	Emission released to	Parameter/ Substance <sup>Note 1</sup>	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)
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT		

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?

SELECT 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

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)											
				Lic No: w0067-002		Year: 2015					
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



		Comments
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes
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. <a href="#">Groundwater monitoring template</a>	SELECT
5	Is the contamination related to operations at the facility (either current and/or historic)	SELECT
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	SELECT
7	Please specify the proposed time frame for the remediation strategy	SELECT
8	Is there a licence condition to carry out/update ELRA for the site?	SELECT
9	Has any type of risk assesment been carried out for the site?	SELECT
10	Has a Conceptual Site Model been developed for the site?	SELECT
11	Have potential receptors been identified on and off site?	SELECT
12	Is there evidence that contamination is migrating offsite?	SELECT

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 interpraiaon as an additional section in this AER

Please enter interpretation of data here

**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
	MW2	pH		Q	7.1	0.00				SELECT
	MW2	Conductivity		Q	0.92	0.00	mS/cm			
	MW2	Ammonical Nitrogen		Q	0.376	0.00	mg/l N			
	MW2	Sodium		Q	44	0.00	mg/l			
	MW2	Chloride		Q	103	0.00	mg/l Cl			
	MW2	Potassium		Q	14	0.00	mg/l			
	MW2	Faecal Coliforms		Q	10	0.00	No/100ml			
	MW2	Sulphate		Q	52.7	0.00	mg/l SO4			
	MW2	D.O.		Q	4.57	0.00	mg/l			
	MW2	Total Organic Carbon		Q	6.98	0.00	mg/l C			
	MW2	Total Coliforms		Q	120	120.00	No/100ml			
	MW2	Total Ox Nitrogen					mg/l N			
	MW2	Total Carbon					mg/l			
	MW2	Total Inorganic Carbon					mg/l			
	MW2	Phenols					mg/l			
	MW2	Iron		Q	727	727	ug/l			
	MW2	Lead		A	0.5	0.5	ug/l			
	MW2	List 1&2 Organics								
	MW2	Magnesium		A	23	23	mg/l			
	MW2	Manganeese		A	1332	1332	ug/l			

Groundwater/Soil monitoring template			Lic No:	w0067-002	Year	2015
MW2	Mercury		Q	0.1	0.1	ug/l
MW2	Total Alkalinity		A	403	403	mg/l CaCO3
MW2						
MW2	Total Phosphorous		A	0.07	0.07	mg/l P
MW2	Orthophosphate					mg/l PO4
MW2	Residue on evaporation					
MW2	Zinc		A	5	5	ug/l
MW2	Flouride		A	0.5	0.5	mg/l F
MW2	Calcium		A	200	200	mg/l
MW2	Cadmium		A	0.5	0.5	ug/l
MW2	Copper		A	2	2	ug/l
MW2	Cyanide		A	9	9	mg/l CN
MW2	Total Solids					mg/l
MW2	Boron		A	28	28	ug/l
MW2	Chromium		A	0.5	0.5	ug/l
MW2	Dissolved Nickel					ug/l
MW2	Total Nickel		A	1	1	mg/l
MW2	nitrate as no3					mg/l
MW2	nitrite as no2					mg/l
MW2	SVOC		A	1	1	ug/l
MW2	VOC		A	1	1	ug/l
MW2	Pesticides (OCP)		A	2	2	ng/l
						SELECT
						SELECT

.+ 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*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
	MW3	D.O.		Q	4.89	0.00	mg/l			SELECT
	MW3	pH		Q	6.7	0.00				
	MW3	Conductivity		Q	0.889	0.00	mS/cm			
	MW3	Ammonical Nitrogen		Q	0.324	0.00	mg/l N			
	MW3	Total Ox Nitrogen					mg/l N			
	MW3	Chloride		Q	26.1	0.00	mg/l Cl			
	MW3	Total Carbon					mg/l			
	MW3	Total Inorganic Carbon					mg/l			
	MW3	Total Organic Carbon		Q	4.94	0.00	mg/l C			
	MW3	Mercury		A	0.1	0.00	ug/l			
	MW3	Faecal Coliforms		Q	10	0.00	No/100ml			
	MW3	Total Coliforms		Q	100	0.00	No/100ml			
	MW3	Sodium		Q	14.4	0.00	mg/l			
	MW3	Potassium		Q	10	0.00	mg/l			
	MW3	Phenols					mg/l			
	MW3	Total Phosphorous		A	0.05	0.05	mg/l P			
	MW3	Boron		A	25	25	ug/l			
	MW3	Cadmium		A	0.5	0.5	ug/l			
	MW3	Calcium		A	236	236	mg/l			



**Groundwater/Soil monitoring template** Lic No: w0067-002 Year 2015

MW3	Chromium		A	0.5	0.5	ug/l		
MW3	Copper		A	1	1	ug/l		
MW3	Iron		A	5633	5633	ug/l		
MW3	Lead		A	0.5	0.5	ug/l		
MW3	Magnesium		A	14	14	mg/l		
MW3	Manganeese		A	344	344	ug/l		
MW3	Dissolved Nickel					ug/l		
MW3	Total Nickel		A	0.8	0.8	mg/l		
MW3	Zinc		A	5	5	ug/l		
MW3	List 1&2 Organics							
MW3	Total Alkalinity		A	473	473	mg/l CaCO3		
MW3	Sulphate		Q	56.6	0.00	mg/l SO4		
MW3	Orthophosphate					mg/l PO4		
MW3	Residue on evaporation							
MW3	Flouride		A	0.2	0.2	mg/l F		
MW3	Cyanide		A	9	9	mg/l CN		
MW3	Total Solids					mg/l		
MW3	nitrate as no3					mg/l		
MW3	nitrite as no2					mg/l		
MW3	SVOC		A	1	1	ug/l		
MW3	VOC		A	1	1	ug/l		
MW3	Pesticides (OCP)		A	2	2	ng/l		
MW3							SELECT	SELECT

\*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. [Groundwater monitoring template](#)

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) [Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites \(EPA 2013\)](#).

\*\*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 \(IGV\)](#)

**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	Submitted and agreed by EPA	
2	ELRA review status	SELECT	
3	Amount of Financial Provision cover required as determined by the latest ELRA	Specify	
4	Financial Provision for ELRA status	SELECT	
5	Financial Provision for ELRA - amount of cover	Specify	
6	Financial Provision for ELRA - type	Insurance with Environmental Impairment Liability cover,	
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	Closure plan submitted and agreed by EPA	
9	Closure plan review status	SELECT	
10	Financial Provision for Closure status	SELECT	
11	Financial Provision for Closure - amount of cover	Specify	
12	Financial Provision for Closure - type	Insurance with Environmental Impairment Liability cover,	
13	Financial provision for Closure expiry date	Enter expiry date	

Environmental Management Programme/Continuous Improvement Programme template		Lic No:	w0067-002	Year	2015
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			
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	Yes			

#### Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Reduction of emissions to Air	Reduce odours feom Cell 3A	100	Permanent Cap installed	Section Head	Reduced emissions
Energy Efficiency/Utility conservation	Gas Utilisation	40	Grid connection approved	Section Head	SELECT
SELECT		SELECT		SELECT	SELECT

<b>Noise monitoring summary report</b>	Lic No: w0067-002	Year	2015
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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 Yes
  
- 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](#)  
Yes
- 3 Does your site have a noise reduction plan No
- 4 When was the noise reduction plan last updated? Enter date
- 5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey? No

**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)?
28/08/2015	13.25-13.55	N1		44	40	46		No	SELECT	Road traffic	SELECT
28/08/2015	12.45-13.15	N4		49	44	52		No		Road traffic	
28/08/2015	14.04-14.34	N6		53	45	56		No		Road traffic	
28/08/2015	14.42-15.12	N7		54	43	58		No		Road traffic	
28/08/2015	23.56-00.26	N1		44	40	53		No		Road traffic	
28/08/2015	23.20-23.50	N4		45	42	49		No		Road traffic	
28/08/2015	22.43-23.13	N6		46	44	52		No		Road traffic	
28/08/2015	22.00-22.30	N7		45	40	49		No		Road traffic	

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

SELECT

\*\* please explain the reason for not taking action/resolution of noise issues?

---

Any additional comments? (less than 200 words)

- 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  
[SEAI - Large Industry Energy Network \(LIEN\)](#)
- 3 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

Additional information	
Enter date of audit	
No	
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)				
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	122150	131250		
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	6548	7240		
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	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	545	620					
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)					

<b>Resource Usage/Energy efficiency summary</b>	Lic No: w0067-002	Year	2015
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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
			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					



<b>WASTE SUMMARY</b>	Lic No: w0067-002	Year: 2015
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**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	
SELECT	

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	
----	--

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

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)**

Licenced 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 -

**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

SELECT	
--------	--

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

SELECT	
--------	--

6 Does your facility have relevant nuisance controls in place?

SELECT	
--------	--

7 Do you have an odour management system in place for your facility? If no why?

SELECT	
--------	--

8 Do you maintain a sludge register on site?

SELECT	
--------	--

**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
Non Hazardous	45,000	52,332	25,000	

**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
										SELECT UNIT	SELECT UNIT	SELECT UNIT
Cell 3 B	Feb-14		Yes	Public	Non Hazardous	01/07/2016	No	No	No			



<b>WASTE SUMMARY</b>	Lic No: w0067-002	Year 2015
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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	No	No	Yes	Yes	

+. 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 m2 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					
12000	8000 (Cell 3 B)	72000	0	72000	1mm lldpe liner	nil

\*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

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

SELECT

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments
84103							

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 m3	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
1190003	No	0	Yes	No

Comments on liner type



## A survey of landfill sites to determine the quantity of methane flared and or recovered in utilisation plants for 2015

Please choose from the drop down menu the license number for your site	<input type="text" value="W0067"/>
Please choose from the drop down menu the name of the landfill site	<input type="text" value="Rathreeen Landfill"/>
Please enter the number of flares operational at your site in 2015	<input type="text" value="1"/>
Please enter the number of engines operational at your site in 2015	<input type="text" value="0"/>
Total methane flared	<input type="text" value="1,190,003"/> kg/year
Total methane utilised in engines	<input type="text" value="0"/> kg/year

**Please note that the closing date for receipt of completed surveys is 31/03/2016**

### Introduction

The Office of Environmental Sustainability (OES) of the Environmental Protection Agency acts as the inventory agency in Ireland with responsibility for compiling and reporting national greenhouse gas inventories to the European Commission and the United Nations Framework Convention on Climate Change. In addition to meeting international commitments Ireland's national greenhouse gas inventory informs national agencies and Government departments as they face the challenge to curb emissions and meet Ireland's emission reduction targets under the Effort Sharing Decision (No. 406/2009/EC). The national inventory also informs data suppliers, making them aware of the importance of their contributions to the inventory process and a means of identifying areas where input data may be improved.

It is on this basis that the Environmental Protection Agency is asking landfill operators to partake in this survey so that the most up to date information on methane flaring and recovery in utilisation plants at landfill sites is used in calculating the contribution of the landfill sector to national greenhouse gas emissions

The Environmental Protection Agency wishes to thank you for partaking in this survey. If you have any questions about the survey and how to complete it please view the "Help sheet" worksheet. If however, your query is not answered by viewing the "Help sheet" worksheet please contact:

[LFGProject@epa.ie](mailto:LFGProject@epa.ie)

Once completed please send the completed file as an attachment clearly stating the name and or license number of the landfill site (e.g. W000 Xanadu landfill\_2015) to:

[LFGProject@epa.ie](mailto:LFGProject@epa.ie)

to be filled in by licensee

calculated by spreadsheet

**Flare No. 1**

Flare type ?

Other

If "other" enter flare description here

Is the flare an open or enclosed flare ?

Enclosed

Rated flare capacity ?

600

m3/hr

Month /year commissioned ?

August

2013

Month decommissioned if decommissioned in 2015 ?

Select

What is the function of the flare ?

Odour control

If "other" enter flare function here

Monthly	Method M/C/E	Runtime days/month	Runtime hrs/day	Downtime hrs	Total runtime hrs/month	Average Inlet Pressure (mbg)	Average Flow Rate (m <sup>3</sup> /hr)	Average CH <sub>4</sub> %v/v	Average CO <sub>2</sub> %v/v	Average O <sub>2</sub> %v/v	Combustion efficiency (%)	Total CH <sub>4</sub> m <sup>3</sup>	Total CH <sub>4</sub> kgs
January	M	31	24.0	2.0	742	-36	338	41.00	27.00	1.00	98.0	100,770	67,104
February	m	28	24.0	0.0	672	-36	335	46.00	29.00	2.00	98.0	101,484	67,580
March	M	31	24.0	2.0	742	-34	380	41.00	26.00	3.00	98.0	113,292	75,597
April	M	30	24.0	0.0	720	-32	420	44.00	32.00	3.00	98.0	130,395	87,188
May	M	31	24.0	0.0	744	-30	400	46.00	34.00	2.00	98.0	134,158	89,887
June	M	30	24.0	2.0	718	-28	410	48.00	37.00	1.00	98.0	138,476	92,969
July	M	31	24.0	0.0	744	-36	478	49.00	35.00	1.00	98.0	170,774	113,722
August	M	31	24.0	2.0	742	-49	541	47.00	34.00	1.00	98.0	184,895	121,487
September	M	30	24.0	0.0	720	-60	427	42.00	30.00	2.00	98.0	126,542	82,197
October	M	31	24.0	0.0	744	-56	597	47.00	37.00	1.50	98.0	204,584	133,448
November	M	30	24.0	0.0	720	-53	630	45.00	30.00	2.00	98.0	200,038	130,891
December	M	31	24.0	2.0	742	-57	600	45.00	30.00	2.00	98.0	196,333	127,932
Total					8,750							1,801,741	1,190,003

Please note: Only fill the "Yearly" table if data is not available or cannot be calculated nor estimated on a monthly basis

Yearly	Method M/C/E	Runtime days/year	Runtime hrs/day	Downtime hrs	Total runtime hrs/year	Average Inlet Pressure (mbg)	Average Flow Rate m <sup>3</sup> /hr	Average CH <sub>4</sub> %v/v	Average CO <sub>2</sub> %v/v	Average O <sub>2</sub> %v/v	Combustion efficiency (%)	Total CH <sub>4</sub> m <sup>3</sup>	Total CH <sub>4</sub> kgs
2015					0						98.0	0	0



[Guidance to completing the PRTR workbook](#)

# PRTR Returns Workbook

Version 1.1.19

<b>REFERENCE YEAR</b>	2015
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## 1. FACILITY IDENTIFICATION

Parent Company Name	Mayo County Council
Facility Name	Rathroeen Landfill
PRTR Identification Number	W0067
Licence Number	W0067-02

### Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Rathroeen
Address 2	Ballina
Address 3	
Address 4	
	Mayo
Country	Ireland
Coordinates of Location	-6.11271 52.9597
River Basin District	IEWE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
<b>AER Returns Contact Name</b>	Michael Hegarty
<b>AER Returns Contact Email Address</b>	mhegarty@mayococo.ie
<b>AER Returns Contact Position</b>	Senior Executive Technician,
<b>AER Returns Contact Telephone Number</b>	0872046722
<b>AER Returns Contact Mobile Phone Number</b>	0872046722
<b>AER Returns Contact Fax Number</b>	09624056
<b>Production Volume</b>	0.0
<b>Production Volume Units</b>	
<b>Number of Installations</b>	0
<b>Number of Operating Hours in Year</b>	0
<b>Number of Employees</b>	6
<b>User Feedback/Comments</b>	
<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
5(d)	Landfills
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

**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

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	F (Fugitive) KG/Year
01	Methane (CH4)	C	OTH	other	-508381.5	-508381.5	0.0	0.0
03	Carbon dioxide (CO2)	C	OTH	gassim	2979082.0	2979082.0	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**

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	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)**

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	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:

Please enter summary data on the quantities of methane flared and / or utilised		METHOD			Facility Total Capacity
T (Total) kg/Year		M/C/E	Method Code	Designation or Description	m3 per hour
Total estimated methane generation (as per site model)	681621.5	C	Est	Gassim	N/A
Methane flared	1190003.0	M	Est	Landfill Gas Model	600.0 (Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	-508381.5	C	Calculated	Calculated	N/A

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0067 | Facility Name : Rathroeen Landfill | Filename : AER 2015.xls | Return Year : 2015 |

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Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	15 01 02	No	29.66	plastic packaging (Pet & HDPE)	R5	M	Weighed	Offsite in Ireland	McGraths Industrial Waste,NWCPO-09003002-03	Turlough,Castlebar,Mayo,Mayo,Ireland		
Within the Country	15 01 02	No	2.86	plastic packaging (polystyrene)	R5	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	15 01 04	No	1.54	metallic packaging	R4	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	15 01 04	No	18.86	metallic packaging	R5	M	Weighed	Offsite in Ireland	Galway Metal ,WFP-11-g-0005-01	Oranmore,Galway ,Galway,Galway,Ireland		
Within the Country	15 01 05	No	4.68	composite packaging (tetra Paks)	R5	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	16 01 03	No	16.04	end-of-life tyres	R5	M	Weighed	Offsite in Ireland	Midland Scrap Metals,NWCPO-08-01118-02	Annagh,Birr,Offally,R42RT68,Ireland		
To Other Countries	16 05 04	Yes	3.28	gases in pressure containers (including halons) containing dangerous substances	D10	M	Weighed	Abroad	Eco Safe Systems,W0054-02	Unit 1,Allied Ind Est,Kylemore Rd,Dublin 10,Ireland	Recyfuel,SA BE 459735458,Zoning Ind Est,D'Hein,Eingis,B4480,Belgium	Zoning Ind Est,D'Hein,Eingis,B4480,Belgium
Within the Country	17 02 01	No	0.0	wood	R3	M	Weighed	Offsite in Ireland	Rathroeen Landfill,W0067-2	Rathroeen Landfill,Killala Road,Ballina,Ballina,Ireland		
Within the Country	17 08 02	No	12.72	gypsum-based construction materials other than those mentioned in 17 08 01	R5	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	17 08 02	No	0.0	gypsum-based construction materials other than those mentioned in 17 08 01	R5	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	19 07 03	No	84103.0	landfill leachate other than those mentioned in 19 07 02	D9	M	Volume Calculation	Offsite in Ireland	Mayo County Council,D0016-01	Beleek,Ballina,Mayo ,Mayo,Ireland		
Within the Country	20 01 01	No	40.44	paper and cardboard (cardboard)	R5	M	Weighed	Offsite in Ireland	McGraths Industrial Waste,NWCPO-09003002-03	Turlough,Castlebar,Mayo,Mayo,Ireland		
Within the Country	20 01 01	No	0.0	l	D1	M	Weighed	Offsite in Ireland	Ballina Town Council,Exm	Ballina Civic Offices,Arran Place,Ballina,Mayo,Ireland		
Within the Country	20 01 02	No	55.84	glass	R5	M	Weighed	Offsite in Ireland	Rehab Recycling Ltd,Exempt	Cork,,,,,Ireland		
Within the Country	20 01 02	No	11.48	glass (window Glass)	R5	M	Weighed	Offsite in Ireland	Midland Scrap Metals,NWCPO-08-01118-02	Annagh,Birr,Offally,R42RT68,Ireland		
Within the Country	20 01 10	No	13.92	clothes	R3	M	Weighed	Offsite in Ireland	Textile Recycling,WPR 14	Belgard Road,Tallaght,Tallaght,Dublin,Ireland		
Within the Country	20 01 21	Yes	1.1	fluorescent tubes and other mercury-containing waste	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-02	Cappinure Ind Estate,Daingean Rd,Tullamore,Offaly,Ireland	KMK Metals,W0113-02,Cappinure Ind Est,Daingean Rd,Tullamore,Offaly,Ireland	Cappinure Ind Est,Daingean Rd,Tullamore,Offaly,Ireland



Within the Country	20 01 25	No	1.28 edible oil and fat	R9	M	Weighed	Offsite in Ireland	Greyhound Recycling,W0047	Crag Avenue,Clondalkin Industrial Estate,Dublin 22,Dublin ,ireland		
Within the Country	20 01 26	Yes	oil and fat other than those mentioned in 3.1 20 01 25	R9	M	Weighed	Offsite in Ireland	Rialta,W0192-02	Greenouge Ind Estate,Rathcoole,Dublin,Dublin,Ireland	Enva,W0184-01,Clonminam Ind Est,Portlaoise,Laoise,Laoise,Ireland	Clonminam Ind Est,Portlaoise,Laoise,Laoise,Ireland
To Other Countries	20 01 27	Yes	paint, inks, adhesives and resins containing dangerous substances	D10	M	Weighed	Abroad	Eco Safe Systems,W0054-02	Unit 1,Allied Ind Est,Kylemore Rd,Dublin 10,Ireland	Recyfuel,SA BE 459735458,Zoning Ind Est,D'Hein,Eingis,B4480,Belgium	Zoning Ind Est,D'Hein,Eingis,B4480,Belgium
Within the Country	20 01 32	No	medicines other than those mentioned in 0.0 20 01 31	D10	M	Weighed	Offsite in Ireland	Eco Safe Systems,W0054-02	Unit 1,Allied Ind Est,Kylemore Rd,Dublin 10,Ireland		
Within the Country	20 01 33	Yes	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-02	Cappinure Ind Estate,Daingean Rd,Tullamore,Offaly,Ireland	KMK Metals,W0113-02,Cappinure Ind Est,Daingean Rd,Tullamore,Offaly,Ireland	Cappinure Ind Est,Daingean Rd,Tullamore,Offaly,Ireland
Within the Country	20 01 33	Yes	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries	R4	M	Weighed	Offsite in Ireland	Rialta,W0192-02	Greenouge Ind Estate,Rathcoole,Dublin,Dublin,Ireland	02,Greenouge Ind Es,Rathcoole,Dublin,Dublin,Ireland	Greenouge Ind Es,Rathcoole,Dublin,Dublin,Ireland
Within the Country	20 01 36	No	discarded electrical and electronic equipment other than those mentioned in 150.22 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-02	Cappinure Ind Estate,Daingean Rd,Tullamore,Offaly,Ireland		
Within the Country	20 01 36	No	discarded electrical and electronic equipment other than those mentioned in 0.0 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-02	Cappinure Ind Estate,Daingean Rd,Tullamore,Offaly,Ireland		
Within the Country	20 01 39	No	31.78 plastics (Hard plastics)	R5	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02 Galway Metal ,WFP-11-g-0005-01	Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	20 01 40	No	100.72 metals (scrap metals)	R4	M	Weighed	Offsite in Ireland		Oranmore,Galway ,Galway,Galway,Ireland		
Within the Country	20 02 01	No	19.36 biodegradable waste (green waste)	R5	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	20 03 01	No	0.0 mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Rathroeen Landfill,W0067-2	Rathroeen Landfill,Killala Road,Ballina,Ballina,Ireland		
Within the Country	20 03 03	No	0.0 m	D1	M	Weighed	Offsite in Ireland	Mayo County Councils Area Offices,EXM	Arás An Chontae,The Mall,Castlebar,Mayo,Ireland		

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