

**Facility Information Summary**

AER Reporting Year	2014
Licence Register Number	W0017-04
Name of site	Gortadroma Landfill
Site Location	Gortadroma, Ballyhahill, Co. Limerick.
NACE Code	3821
Class/Classes of Activity	Class 1,5,6,7,11,13 of Third Schedule and Class 2,3,4,9,10,11,12,13 of fourth schedule
National Grid Reference (6E, 6 N)	-6.45823, 53.8084

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

A total of 44,748.7 tonnes of waste was accepted into the site for disposal in 2014 which reflects a 58% reduction in waste intake from the previous year. This is because the site stopped accepting in waste as of June 2014 as it has run out of landfill capacity. The civic amenity site accepted in 93.24 tonnes of waste for recovery which is a decrease of 27% on the previous year. The landfill site accepted in 12,465.6 tonnes of waste that was recovered onsite as landfill cover and road making which is an decrease of 37% on the previous years figures. A total area of 167,000 sq.m. is capped at the landfill site and no further landfilling or capping will take place and the facility has reached maximum capacity. There was no major infrastructural changes made at the site in 2014. All licence compliance monitoring carried out in 2014 was in compliance with the licence limits. A number of complaints in relation to off-site odours were made and these were all investigated and reported upon.

**Declaration:**

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

John O'Carroll	30/3/2015
Signature	Date
Group/Facility manager	
(or nominated, suitably qualified and experienced deputy)	

<b>AIR-summary template</b>	Lic No: W0017-04	Year: 2014
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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 <b>you do not have</b> licenced emissions and <b>do not complete a solvent management plan</b> (table A4 and A5) you <u>do not</u> need to complete the tables	Additional information	
	Yes	There are no results reported for the gas flare for 2014 as the flare was not operational during site visits for monitoring as the utilisation plant was running.

### 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	
3 Was all monitoring carried out in accordance with EPA guidance <a href="#">Basic air monitoring</a> note AG2 and using the basic air monitoring checklist? <a href="#">checklist</a> <a href="#">AGN2</a>	Yes	

**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
Utilisation Plant	Carbon monoxide (CO)	Biannual	1400	100 % of values < ELV	899.5	mg/Nm3	yes	OTH	2948.72	Change is due to decrease in operating hours of utilisation plant
Utilisation Plant	Nitrogen oxides (NO <sub>x</sub> /NO <sub>2</sub> )	Biannual	500	100 % of values < ELV	345.5	mg/Nm3	yes	OTH	1141.44	Change is due to decrease in operating hours of utilisation plant
Utilisation Plant	volumetric flow	Biannual	3000	SELECT	691	Nm <sup>3</sup> /hour	yes	OTH		

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

<b>AIR-summary template</b>		Lic No: W0017-04	Year: 2014
<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	
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	No	
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	Yes	
7	Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	No	

**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
Utilisation Plant	Carbon monoxide (CO)	1400	15 mins	Daily average < ELV	mg/Nm3	899.5	1133	0	0	NA
	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

<b>AIR-summary template</b>	Lic No: W0017-04	Year: 2014
<b>Solvent use and management on site</b>		
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
<b>Table A4: Solvent Management Plan Summary</b> <b>Total VOC Emission limit value</b>		Please refer to linked solvent regulations to complete table 5 and 6 <a href="#">Solvent regulations</a>
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
<b>Table A5: Solvent Mass Balance summary</b>		
	(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)
		Total

**AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)** Lic No: W0017-04 Year 2014

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 <b>do not have</b> licensed emissions you <u>only</u> need to complete table W1 and or W2 for storm water analysis and visual inspections	Yes
2 Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising <u>only any evidence of contamination noted during visual inspections</u>	Yes

**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	No
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	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
SW4	Water	Conductivity	discrete	weekly	Weekly	1000	All results < 1.2 x ELV	480	µS/cm @20°C	yes	STRUMENTAL METHO	Manufacturer method		NA	
SW4	Water	Ammonia (as N)	discrete	weekly	Weekly	0.78	All results < 1.2 x ELV	0.33	mg/L	yes	colourimetry	UKAS		186	
SW4	Water	Suspended Solids	discrete	weekly	Weekly	35	All results < 1.2 x ELV	8.1	mg/L	yes	Gravimetric analysis	Standard methods	2540D	4,665	
SW4	Water	pH	discrete	weekly	Weekly	6 to 9	All results < 1.2 x ELV	6.3	pH units	yes	pH Meter (Electrode)	Manufacturer method		NA	
SW4	Water	Chlorides (as Cl)	discrete	weekly	Weekly	250	NA	31.8	mg/L	NA	Titration	Standard methods	4500D	18,218	
Treated leahate	Water	pH	composite	weekly	Weekly	6 to 9	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	7.2	pH units	yes	pH Meter (Electrode)	Manufacturer method		NA	
Treated leahate	Water	BOD	composite	weekly	Weekly	25	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	2.9	mg/L	yes	ed Oxygen Meter (Ele	UKAS		50	Drop in annual mass load is due to drop in annual discharge volume
Treated leahate	Water	Suspended Solids	composite	weekly	Weekly	35	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	10.4	mg/L	yes	Gravimetric analysis	Standard methods	2540D	178	Drop in annual mass load is due to drop in annual discharge volume
Treated leahate	Water	Total phosphorus	composite	weekly	Weekly	2	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.88	mg/L	yes	vely Coupled Plasma -	UKAS		15	Drop in annual mass load is due to drop in annual discharge volume
Treated leahate	Water	Ammonia (as N)	composite	weekly	Weekly	3	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.43	mg/L	yes	colourimetry	UKAS		7	Drop in annual mass load is due to drop in annual discharge volume

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

**AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)** Lic No: W0017-04 Year 2014

**Continuous monitoring**

5 Does your site carry out continuous emissions to water/sewer monitoring?  Yes  No 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  No  Yes

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

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

**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
SW4	Water	pH	6 to 9	30 minutes	No flow value shall exceed the specific limit.	pH units			0	0	Annual average = 6.4
SW4	Water	Conductivity	1000	30 minutes	No flow value shall exceed the specific limit.	µS/cm @20oC			0	0	Annual average = 491

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

**Table W5: Abatement system bypass reporting table**

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

\*Measures taken or proposed to reduce or limit bypass frequency

**Bund testing**

dropdown menu click to see options

**Additional information**

Are you required by your licence to undertake integrity testing on bunds and containment structures? if yes please fill out table B1 below listing all new bunds and containment structures on site, in addition to all bunds which failed the integrity test - all bunding structures which failed including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period (mobile bunds and chemstore included)

Yes	No new bunds and no test failures in 2014
3 years	
Yes	
1	There are 2 leachate holding lagoons, 4 lagoons in treatment plant, 1 storm water settling tank and 1 fuel bund
All 8	
0	
SELECT	
NA	
0	
0	
Yes	
Yes	
Yes	

- 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**
- 10 Do all sumps and chambers have high level liquid alarms?
  - 11 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?
  - 12 Is the Fire Water Retention Pond included in your integrity test programme?

**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)
	SELECT					SELECT			SELECT	SELECT		SELECT		
	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 BS8007/EPA Guidance?

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

Yes	
No	
SELECT	Not tested

**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

Yes	No underground pipes onsite requiring integrity testing
SELECT	

- 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)

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

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

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

**Groundwater/Soil monitoring template** Lic No: W0017-04 Year 2014

		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	yes	Collins well used for onsite utilities
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 <a href="#">Groundwater monitoring Report</a> (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below.	no	
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 assessment 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 interpretation as an additional section in this AER

There are no upward trends seen in any of the groundwater monitoring results. In general, there is no observable difference in water quality between the upgradient GW well and the true downgradient GW wells shown below. The average results show good consistency across the site and the monitoring results have been generally consistent over the previous five years. The monitoring data shows that the site is not negatively impacting on the groundwater quality in the immediate vicinity.

**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
21/01, 29/04, 16/07, 13/10	Collins Well	conductivity	meter	quarterly	656	597	µS/cm @20oC	800	SW EQS	No
21/01, 29/04, 16/07, 13/10	Collins Well	ammonia	colorimetry	quarterly	0.41	0.33	mg/l	0.065	SW EQS	No
21/01, 29/04, 16/07, 13/10	Collins Well	chloride	titration	quarterly	23	24	mg/l	187.5	SW EQS	No
21/01, 29/04, 16/07, 13/10	Collins Well	sulphate	turbidimetry	quarterly	11.3	10.5	mg/l	187.5	SW EQS	No
16/7,	Collins Well	nitrate	colorimetry	annually	< 0.42	< 0.42	mg/l	37.5	SW EQS	No
16/7,	Collins Well	Total P	ICP	annually	<0.12	< 0.12	mg/l	NA	SW EQS	No
							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**



**Groundwater/Soil monitoring template** Lic No: W0017-04 Year 2014

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
21/01, 29/04, 16/07, 13/10	GW4O	conductivity	meter	quarterly	912	617	µS/cm @20oC	800	SW EQS	no
21/01, 29/04, 16/07, 13/10	GW4O	ammonia	colorimetry	quarterly	0.37	0.3	mg/l	0.065	SW EQS	no
21/01, 29/04, 16/07, 13/10	GW4O	chloride	titration	quarterly	45.7	27.3	mg/l	187.5	SW EQS	no
21/01, 29/04, 16/07, 13/10	GW4O	sulphate	turbidimetry	quarterly	19.4	18.4	mg/l	187.5	SW EQS	no
16/7,	GW4O	nitrate	colorimetry	annually	< 0.42	< 0.42	mg/l	37.5	SW EQS	no
16/7,	GW4O	Total P	ICP	annually	0.15	0.15	mg/l	NA	SW EQS	no
21/01, 29/04, 16/07, 13/10	GW5	conductivity	meter	quarterly	721	543	µS/cm @20oC	800	SW EQS	no
21/01, 29/04, 16/07, 13/10	GW5	ammonia	colorimetry	quarterly	1.25	0.77	mg/l	0.065	SW EQS	no
21/01, 29/04, 16/07, 13/10	GW5	chloride	titration	quarterly	22	21	mg/l	187.5	SW EQS	no
21/01, 29/04, 16/07, 13/10	GW5	sulphate	turbidimetry	quarterly	1.9	1.5	mg/l	187.5	SW EQS	no
16/7,	GW5	nitrate	colorimetry	annually	< 0.42	< 0.42	mg/l	37.5	SW EQS	no
16/7,	GW5	Total P	ICP	annually	0.53	0.53	mg/l	NA	SW EQS	no

\*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)

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

## Groundwater/Soil monitoring template

Lic No: W0017-04

Year

2014

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	Review required and completed	
3	Amount of Financial Provision cover required as determined by the latest ELRA	135,733	
4	Financial Provision for ELRA status	Submitted and agreed by EPA	
5	Financial Provision for ELRA - amount of cover	135,733	
6	Financial Provision for ELRA - type	Other please specify	Limerick Co Co financial resources
7	Financial provision for ELRA expiry date	31/12/2044	
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 not agreed by EPA;	
11	Financial Provision for Closure - amount of cover	5,035,850	
12	Financial Provision for Closure - type	Other please specify	Limerick Co Co financial resources
13	Financial provision for Closure expiry date	31/12/2044	

Environmental Management Programme/Continuous Improvement Programme template		Lic No:	W0017-04	Year	2014
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	An EMS is in operation for the site and is updated annually		
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	The EMP also acts as the site manual and assists the site in achieving its targets and objectives. It is updated annually.		
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
Waste reduction/Raw material usage efficiency	Completed in Q2 2014	90	100% complete. Contractor completed final capping on east side of cell 16	Section Head	Improved Environmental Management Practices
Waste reduction/Raw material usage efficiency	Completed in Q3 2014	90	100% complete. Contractor completed final capping of cells 14/16 (east)	Section Head	Improved Environmental Management Practices
Reduction of emissions to Water	Completed in Q3 2014	90	100% complete. Sand and stone on sand filter in leachate plant replaced	Section Head	Reduced emissions
Additional improvements	Completed in Jan 2014	90	100% complete. Installed new electrical kiosk for scada and electrical panels	Section Head	Installation of infrastructure

**Noise monitoring summary report**      Lic No: W0017-04      Year: 2014

- 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 site compliant with noise limits (day/evening/night)?
16/6/2014	08.00-19.00	M1		48	38	50	67	No	SELECT	traffic, site, birdsong	Yes
16/6/2014	08.00-19.00		M2	35	24	34	60	No		traffic, birdsong	Yes
16/6/2014	08.00-19.00		M3	35	24	36	59	No		traffic, birdsong	Yes
16/6/2014	08.00-19.00		M4	34	24	33	74	No		traffic, site, birdsong	Yes
16/6/2014	08.00-19.00		M5	40	30	39	73	No		traffic, site, birdsong	Yes
16/6/2014	08.00-19.00		M6	40	29	37	68	No		traffic, site, birdsong	Yes
16/6/2014	08.00-19.00		M7	40	29	39	74	No		Site, birdsong	Yes
16/6/2014	08.00-19.00		M9	48	37	50	69	No		traffic, site, birdsong	Yes
16/6/2014	08.00-19.00	M10		40	30	39	66	No		traffic, site, birdsong	Yes
16/6/2014	08.00-19.00	M11		49	37	51	68	No		traffic, site, birdsong	Yes
17/6/2014	23.00-05.30	M1		39	33	41	70	No		Site pump, traffic	Yes
17/6/2014	23.00-05.30		M2	31	28	32	57	No		Site pump, traffic	Yes
17/6/2014	23.00-05.30		M3	29	27	30	57	No		Site pump, traffic	Yes
17/6/2014	23.00-05.30		M4	32	28	35	51	No		Site pump, traffic	Yes
17/6/2014	23.00-05.30		M5	33	31	35	56	No		Site pump, traffic	Yes
17/6/2014	23.00-05.30		M6	33	30	34	53	No		Site pump, birdsong	Yes
17/6/2014	23.00-05.30		M7	38	30	35	64	No		Site pump, birdsong	Yes
17/6/2014	23.00-05.30		M9	42	36	41	62	No		Site pump, traffic, birdsong	Yes
17/6/2014	23.00-05.30	M10		33	30	35	64	No		Site pump, dog barking	Yes
17/6/2014	23.00-05.30	M11		42	38	43	66	No		Site pump, birdsong	Yes

\*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:

W0017-04

Year

2014

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

## Additional information

	2006
No	
SELECT	

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	413.6	512.3		
Total Energy Generated (MWHrs)	5985.4	4077		
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	413.6	512.3		
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	10.58	5.26		
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

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*	Water Emissions	Water Consumption	Unaccounted for Water:
					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							
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

	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)	1.98				
Non-Hazardous (Tonnes)	21,116.82				

<b>Resource Usage/Energy efficiency summary</b>	Lic No: W0017-04	Year	2014
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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
2006	Install electricity generation plant to generate electricity from landfill gas	Installation of 1MW gas	energy audit		Jun-09	Landfill Manager	Jun-09	Complete
2006	Install DO probe to control aerators in LTP.	Link DO probe to aera	energy audit	20	Jun-07	Landfill Manager	Jun-07	Complete
2006	Consider installation of air diffusion system in LTP.	Install alternative aera	energy audit		2013	Landfill Manager		Ongoing

**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	Gas combustion engine				
Primary Fuel	Landfill gas				
Thermal Efficiency	42.60%				
Unit Date of Commission	2009				
Total Starts for year					
Total Running Time	4756 hrs				
Total Electricity Generated (GWH)	4.077				
House Load (GWH)	0.41				
KWH per Litre of Process Water					
KWH per Litre of Total Water used on Site					





<b>WASTE SUMMARY</b>	Lic No: W0017-04	Year: 2014
<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>	<a href="#">dropdown list click to see options</a>

**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)

If yes please enter details in table 1 below

Additional Information

Yes	
-----	--

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)**

Licensed annual tonnage limit for your site (total tonnes/annum)	EWG code	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which applies to relevant EWG code	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 -
130,000	20 03 01	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	mixed municipal	43,746.98	103,806.15	-58%			D5- Specially engineered landfill	0	
130,000	20 03 03	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	street sweepings	257.92	241.92	7%			D5- Specially engineered landfill	0	
130,000	19 08 01	19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	WWTP Screenings	215.76	446.14	-52%			D5- Specially engineered landfill	0	
130,000	11 01 10	11- WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY	Filter cake Gypsum	0.00	70.76	-100%			D5- Specially engineered landfill	0	
2,000	10 01 01	10- WASTES FROM THERMAL PROCESSES	woodash	218.94	802.40	-73%			R3-Recycling/reclamation or organic substances which are not used as solvents(including composting or another biological transformation processes)which includes gasification and pyrolysis	0	
	19 03 05	19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	biostabilised waste	3,672.02	7,474.66	-51%			R5-Recycling/reclamation or other inorganic materials which includes soil celening resulting in recovery of the soil and recycling of inorganic construction materials	0	

WASTE SUMMARY			Lic No:		W0017-04		Year		2014	
50,000	17 01 03	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	tiles & ceramics	269.52	701.20	-62%			R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	0
50,000	17 05 04	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	soil & stone	1,752.98	0.00				R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	0
50,000	19 12 12	19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	C&D	4,711.56	10,341.56	-54%			R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	0
50,000	19 03 05		Sludge	528.02	0.00				D5- Specially engineered landfill	
50,000	17 03 02		Bituminous C&D	1,665.88	0.00				D5- Specially engineered landfill	
2,000	19 12 07	19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	woodchip	444.22	437.86	2%			R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asanother biological transformation processes)which includes gasification and pyrolysis	0
5,000	20 01 39		plastic bottles	8.50	0.00				R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	0
5,000	20 01 01		tetrapaks	2.40	0.00				R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	0
5,000	20 01 01		newspapers magazines	16.44	17.60	-7%			R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asanother biological transformation processes)which includes gasification and pyrolysis	0
5,000	20 01 02		Glass	3.97	0.00				R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	0
5,000	20 01 05		food cans	0.52	0.00				R4- Recycling/reclamation of metals and metal compounds	0
5,000	20 01 05		drink cans	0.18	0.00				R4- Recycling/reclamation of metals and metal compounds	0

WASTE SUMMARY										Lic No:	W0017-04	Year	2014
5,000	20 01 01		cardboard	13.40	0.00				R3-Recycling/reclamation or organic substances which are not used as solvents(including composting or another biological transformation processes)which includes gasification and pyrolysis	0			
5,000	20 01 40		mixed metals	20.98	23.18	-9%			R4- Recycling/reclamation of metals and metal compounds	0			
5,000	20 01 11		textiles	1.38	1.22	13%			R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	0			
5,000	15 01 07		glass	3.97	6.32	-37%			R4- Recycling/reclamation of metals and metal compounds	0			
5000	15 01 01		cardboard packaging	0	4.5				R4- Recycling/reclamation of metals and metal compounds	0			
5000	20 02 01		Garden waste	21.5	13.58	58%			R4- Recycling/reclamation of me	0			

**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	
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	
SELECT	
SELECT	

- 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
Municipal Solid Waste (household & commercial)	130,000	44,749	0	remaining built capacity

**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
										m2	m2	m2	
Cells 1 to 16	Mar-90	Jun-14	1	Public	Non Hazardous	2014	No	No	No	157,684	136,844	20,800	As per licence requirement

WASTE SUMMARY		Lic No:	W0017-04	Year	2014
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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	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
m2	m2					
0	0	167,000	0	0	as per licence condition 10.3.1	

\*please note this includes daily cover area

**Table 6 Leachate-Landfill only**

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

Yes

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

Yes

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
17,209	50	NA	7	NA	Yes	Extended aeration	

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
3,821,019	4079.56MWh	Both	Yes	m <sup>3</sup> of methane



[Guidance to completing the PRTR workbook](#)

# AER Returns Workbook

Version 1.1.18

<b>REFERENCE YEAR</b>	2014
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## 1. FACILITY IDENTIFICATION

Parent Company Name	Limerick City & County Council
Facility Name	Gortadroma Landfill Site
PRTR Identification Number	W0017
Licence Number	W0017-04

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Gortadroma
Address 2	Ballyhahill
Address 3	
Address 4	
Country	Limerick
Country	Ireland
Coordinates of Location	-6.45823 53.8084
River Basin District	IEGBNISH
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
<b>AER Returns Contact Name</b>	JOHN O CARROLL
<b>AER Returns Contact Email Address</b>	john.ocarroll@limerick.ie
<b>AER Returns Contact Position</b>	Landfill Manager
<b>AER Returns Contact Telephone Number</b>	069-82355
<b>AER Returns Contact Mobile Phone Number</b>	087-7565449
<b>AER Returns Contact Fax Number</b>	069-82350
<b>Production Volume</b>	
<b>Production Volume Units</b>	
<b>Number of Installations</b>	1
<b>Number of Operating Hours in Year</b>	2210
<b>Number of Employees</b>	2
<b>User Feedback/Comments</b>	Release to water- 50% +/- variation for some metals and sulphate, all results recorded still within A1 MAC as specified in EC (Quality of surface water intended for the abstraction of drinking water) Regs 1988 [SI No. 294 of 1989], with the exception of Iron & Manganese which are within A2 MAC. 50% +/- variation for Total Nitrogen, value is lower than 2013. Xylenes were reported in 2013 but not detected in 2014.
<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

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : W0017 | Facility Name : Gortadroma Landfill Site | Filename : PRTR 2014.xls | Return Year : 2014 |

30/3/2015 11:38

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
				Landfill gas engine				
				Total estimated methane generated minus(methane flared + utilised)				
01	Methane (CH4)	C	OTH			0.0	0.0	0.0
03	Carbon dioxide (CO2)	C	OTH	Gassim Mode		0.0	0.0	0.0
08	Nitrogen oxides (NOx/NO2)	M	OTH	Flue Gas Analyser		903.75	0.0	0.0
11	Sulphur oxides (SOx/SO2)	M	OTH	Flue Gas Analyser		12.18	0.0	0.0
02	Carbon monoxide (CO)	M	OTH	Flue Gas Analyser		2353.0	0.0	0.0
86	Particulate matter (PM10)	M	OTH	Isokenetic Filtrator		41.06	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			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) 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 C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

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

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:	Gortadroma Landfill Site				
Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used Method Code	Designation or Description	Facility Total Capacity m3 per hour
	Total estimated methane generation (as per site model)	0.0			N/A
	Methane flared	0.0			0.0 (Total Flaring Capacity)
	Methane utilised in engine/s	0.0			0.0 (Total Utilising Capacity)
	Net methane emission (as reported in Section above)	0.0			N/A

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

[ PRTR : W0017 | Facility Name : Gordaleona Landfill Site | Filename : PRTR 2014.xls | Return Year : 2014 ]

30/3/2015 11:57

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

POLLUTANT		RELEASERS TO WATERS				Please enter all quantities in this section in KGs			QUANTITY	
No. Annex II	Name	M/C/E	Method Code	Designation or Description	SW4-Storm Water Discharge	Treated Leachate discharge	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
18	Cadmium and compounds (as Cd)	M	CRM	UKAS	0.5734	0.0	0.5734	0.0	0.0	
19	Chromium and compounds (as Cr)	M	CRM	UKAS	1.1467	0.0	1.1467	0.0	0.0	
20	Copper and compounds (as Cu)	M	CRM	UKAS	5.16	0.0	5.16	0.0	0.0	
21	Mercury and compounds (as Hg)	M	CRM	UKAS	0.0574	0.0	0.0574	0.0	0.0	
22	Nickel and compounds (as Ni)	M	CRM	UKAS	2.8667	0.0	2.8667	0.0	0.0	
23	Lead and compounds (as Pb)	M	CRM	UKAS	3.44	0.0	3.44	0.0	0.0	
24	Zinc and compounds (as Zn)	M	CRM	UKAS	10.32	0.0	10.32	0.0	0.0	
34	1,2-dichloroethane (EDC)	M	CRM	UKAS	0.5734	0.0	0.5734	0.0	0.0	
61	Anthracene	M	CRM	UKAS	0.5734	0.0	0.5734	0.0	0.0	
62	Benzene	M	CRM	UKAS	0.5734	0.0	0.5734	0.0	0.0	
91	Benzol(g,h,i)perylene	M	CRM	UKAS	0.5734	0.0	0.5734	0.0	0.0	
79	Chlorides (as Cl)	M	OTH	Standard methods for examination of water & wastewater 4500D	18593.04	0.0	18593.04	0.0	0.0	
65	Ethyl benzene	M	CRM	UKAS	0.5734	0.0	0.5734	0.0	0.0	
88	Fluoranthene	M	CRM	UKAS	0.5734	0.0	0.5734	0.0	0.0	
43	Hexachlorobutadiene (HCBD)	M	CRM	UKAS	0.5734	0.0	0.5734	0.0	0.0	
42	Hexachlorobenzene (HCB)	M	CRM	UKAS	0.5734	0.0	0.5734	0.0	0.0	
68	Naphthalene	M	CRM	UKAS	1.1466	0.0	1.1466	0.0	0.0	
49	Pentachlorophenol (PCP)	M	CRM	UKAS	0.5734	0.0	0.5734	0.0	0.0	
73	Toluene	M	CRM	UKAS	0.5734	0.0	0.5734	0.0	0.0	
12	Total nitrogen	M	CRM	UKAS	900.128	0.0	900.128	0.0	0.0	
76	Total organic carbon (TOC) (as total C or COD/3)	M	CRM	UKAS	8449.96	0.0	8449.96	0.0	0.0	
13	Total phosphorus	M	CRM	UKAS	68.799	17.5538	86.3528	0.0	0.0	
60	Vinyl chloride	M	CRM	UKAS	0.2866	0.0	0.2866	0.0	0.0	
35	Dichloromethane (DCM)	M	CRM	UKAS	0.5734	0.0	0.5734	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		RELEASERS TO WATERS				Please enter all quantities in this section in KGs			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		

\* 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		RELEASERS TO WATERS				Please enter all quantities in this section in KGs			QUANTITY	
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	SWW- Storm Water Discharge	Treated Leachate Discharge	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
238	Ammonia (as N)	M	CRM	UKAS	162.32	8.2605	171.0006	0.0	0.0	
303	BOD	M	CRM	UKAS	957.46	88.8	1046.26	0.0	0.0	
306	COD	M	OTH	Standard methods for examination of water & wastewater 4500D	19439.88	0.0	19439.88	0.0	0.0	
374	Boron	M	CRM	UKAS	131.86	0.0	131.86	0.0	0.0	
305	Calcium	M	CRM	UKAS	57906.33	0.0	57906.33	0.0	0.0	
357	Iron	M	CRM	UKAS	131.86	0.0	131.86	0.0	0.0	
320	Magnesium	M	CRM	UKAS	6363.96	0.0	6363.96	0.0	0.0	
321	Manganese (as Mn)	M	CRM	UKAS	44.71	0.0	44.71	0.0	0.0	
338	Potassium	M	CRM	UKAS	3560.37	0.0	3560.37	0.0	0.0	
341	Sodium	M	CRM	UKAS	19493.22	0.0	19493.22	0.0	0.0	
343	Sulphate	M	CRM	UKAS	40706.43	0.0	40706.43	0.0	0.0	
240	Suspended Solids	M	OTH	Standard methods for examination of water & wastewater 4500D	4248.37	263.13	4511.5	0.0	0.0	
379	Total Oxidised Nitrogen (TON)	M	CRM	UKAS	928.79	0.0	928.79	0.0	0.0	
332	Ortho-phosphate (as PD4)	M	CRM	UKAS	687.99	0.0	687.99	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# : W0017 | Facility Name : Gortadroma Landfill Site | Filename : PRTR 2014.xls | Return Year : 2014 |

30/3/2015 11:57

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 Recoverer/Disposer	Haz Waste - Address of Next Destination Facility Non-Haz Waste - Address of Recoverer/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)
						MC/E	Method Used					
Within the Country	15 01 01	No	13.4	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	CLEAN IRELAND RECYCLING,W0253-01	Cree ,Kilrush ,County Clare, ,Ireland		
Within the Country	15 01 04	No	0.52	metallic packaging	R4	M	Weighed	Offsite in Ireland	MR. BINMAN,W0061-03	LIMMERICK,Ireland		
Within the Country	15 01 04	No	0.18	metallic packaging	R4	M	Weighed	Offsite in Ireland	MR. BINMAN,W0061-03	LIMMERICK,Ireland		
Within the Country	15 01 05	No	2.4	composite packaging	R5	M	Weighed	Offsite in Ireland	CLEAN IRELAND RECYCLING,W0253-01	Cree ,Kilrush ,County Clare, ,Ireland		
Within the Country	19 07 03	No	2555.41	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	LISTOWEL WASTE WATER TREATMENT PLANT,D0179-01	LISTOWEL WASTE WATER TREATMENT PLANT,LISTOWEL ,COUNTY KERRY, ,Ireland		
Within the Country	19 07 03	No	343.52	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	BALLYHEIGUE WASTE WATER TREATMENT PLANT,D0186-01	BALLYHEIGUE WASTE WATER TREATMENT PLANT,BALLYHEIGUE T,COUNTY KERRY, ,Ireland		
Within the Country	19 07 03	No	2076.0	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	ENVA IRELAND ,W0041-01	ENVA IRELAND ,SMITHSTOWN INDUSTRIAL EST ,SHANNON,COUNTY CLARE ,Ireland		
Within the Country	19 07 03	No	6511.65	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	PALLASKENERY WASTE WATER TREATMENT PLANT,D0304-01	PALLASKENERY WASTE WATER TREATMENT PLANT,PALLASKENERY ,COUNTY LIMERICK, ,Ireland		
Within the Country	19 07 03	No	7356.83	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	CASTLETROY WASTE WATER TREATMENT PLANT,D0019-01	CASTLETROY WASTE WATER TREATMENT PLANT,CASTLETROY,COU NTY LIMERICK, ,Ireland		
Within the Country	19 07 03	No	2201.72	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	BUNLICKY WASTE WATER TRETMENT PLANT,D001301	DOCK ROAD ,LIMERICK, ,Ireland		
Within the Country	20 01 01	No	16.44	Newspapers & Magazines	R3	M	Weighed	Offsite in Ireland	CLEAN IRELAND RECYCLING,W0253-01	Cree ,Kilrush ,County Clare, ,Ireland		
Within the Country	20 01 02	No	3.97	glass	R5	M	Weighed	Offsite in Ireland	MR. BINMAN,W0061-03	LIMMERICK,Ireland		
To Other Countries	20 01 11	No	1.38	textiles	R5	M	Weighed	Abroad	COOKSTOWN TEXTILE RECYCLERS,WMEX 01/11	MAGHERALANE ROAD,RANDALSTOWN,CO UNTY ANTRIM,Ireland	EUROPEAN METAL RECYCLING L.t.d,EPR/GP3292FT,BENTL EY ROAD	BENTLEY ROAD SOUTH,DARLASTON,WES T MIDLANDS,WS10 8LW,United Kingdom
To Other Countries	20 01 35	Yes	1.98	Fridge Freezers	R4	M	Weighed	Abroad	KMK METAL RECYCLERS,W0113-04	KMK METAL RECYCLERS,CAPPINCUR Y OFFFALY,Ireland	SOUTH,DARLASTON,WES T MIDLANDS,WS10 8LW,United Kingdom	SOUTH,DARLASTON,WES T MIDLANDS,WS10 8LW,United Kingdom
Within the Country	20 01 36	No	2.24	LDA Non-Hazardous	R4	M	Weighed	Offsite in Ireland	KMK METAL RECYCLERS,W0113-04	KMK METAL RECYCLERS,CAPPINCUR INDUSTRIAL EST ,TULLAMORE,COUNT Y OFFFALY,Ireland		
Within the Country	20 01 36	No	1.68	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	DELIVERIES L.T.D.MULTI REGIONAL PERMIT NO: WCP-DC-08-1130-01	BALLYSTAHAN,ST. MARGARETS,COUNTY DUBLIN, ,Ireland		
Within the Country	20 01 39	No	8.5	plastics	R5	M	Weighed	Offsite in Ireland	CLEAN IRELAND RECYCLING,W0253-01	Cree ,Kilrush ,County Clare, ,Ireland		
Within the Country	20 01 40	No	20.98	Mixed Scrap Metal	R4	M	Weighed	Offsite in Ireland	UNITED METALS,NWCPO-10-05657-01	Eastway Recycling Park,Ballysimon,Limerick, ,Ire land		

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

[Link to previous years waste data](#)

[Link to previous years waste summary data & percentage change](#)

[Link to Waste Guidance](#)