

Facility Information Summary

AER Reporting Year	2014
Licence Register Number	W0025-03
Name of site	Powerstown Landfill
Site Location	Powerstown, Carlow
NACE Code	3821
Class/Classes of Activity	A2
National Grid Reference (6E, 6 N)	E271,000 N168,800

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.**

Powerstown Landfill is a non hazardous waste landfill licensed to accept 40,000 tonnes of waste per year. During 2014 a total of 47229 tonnes was accepted for disposal at the landfill. This increase in waste intake was mainly due to the closure of 2 landfills in the southern region. Subsequently, Carlow Co Co submitted an application to the EPA in 2014 to request a review of the Industrial Emissions Licence for the site and requesting permission to increase the quantity of waste to 50,000 tonnes per annum. A decision has yet to be made in relation to this application. During 2014 there were 2 EPA inspections at the site. The first inspection was carried out by the OEE on 30/01/14. There were no non compliances raised during this inspection. On 21/10/14 a site inspection was carried out to assess landfill gas infrastructure, daily cover and waste placement. There were no major changes to infrastructure during 2014. Landfilling was carried out in Cell 17 for the entire year. Horizontal and vertical gas wells were installed for gas management in cell 17. AS a results of this the flow rate through the flare increased during 2014 and the annual mass load for emissions from the flare for a number of parameters also increased. All non compliances reported during 2014 are contained in the complaints and incidents sheet of this report. They relate mainly to breach of ELV for boundary gas wells, exceedance of trigger levels for groundwater wells and VOC emissions. All monitoring was carried out during 2014 in accordance with licence conditions and reports were uploaded via EDEN website.

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.

Signature	<i>Mary Walsh</i>
Group/Facility manager <small>(or nominated, suitably qualified and experienced deputy)</small>	
Date	<i>08/05/15</i>

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** licensed emissions and **do not complete a solvent management plan** (table A4 and A5) you **do not** need to complete the tables

Yes	Licensed Emissions from Landfill Flare LFGF1.
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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

No	
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3. Was all monitoring carried out in accordance with EPA guidance [Basic Air Monitoring Checklist?](#) [ASIN2](#) note AG2 and using the basic air monitoring checklist? [Checklist?](#)

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

Emission reference no.	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments -reason for change in % mass load from previous year if applicable
LFGF1	Carbon monoxide (CO)	Annually	50	No 30min mean can exceed the ELV	<1.7	mg/Nm ³	yes	OTH	<4.7	
LFGF1	Nitrogen oxides (NOx/NO2)	Annually	150	No 30min mean can exceed the ELV	84.81	mg/Nm ³	yes	OTH	234	Increase rate of capture for LFG
LFGF1	Sulphur oxides (SOx/SO2)	Annually		SELECT	337	mg/Nm ³	SELECT	OTH	932	Increase rate of capture for LFG
LFGF1	Volatile organic compounds (as TOC)	Annually		No 30min mean can exceed 10 the ELV	3.17	mg/Nm ³	yes	OTH	8.77	
LFGF1	Chlorine and inorganic compounds (as HCl)	Annually		No 30min mean can exceed 50 the ELV	1.74	mg/Nm ³	yes	OTH	4.81	Increase rate of capture for LFG
LFGF1	Fluorine and inorganic compounds (as HF)	Annually		No 30min mean can exceed 5 the ELV	2.3	mg/Nm ³	yes	OTH	6.36	Increase rate of capture for LFG
LFGF1	Volumetric flow			3000 SELECT	228	m ³ /hr	yes	OTH		

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

4 Does your site carry out continuous air emissions monitoring?
 If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)

Yes	Continuous Monitoring carried out at Landfill Flare LFGF ₁ for temperature, flow, CH ₄ , CO ₂ , CO, O ₂ . There are no ELV for these parameters with the exception of CO which is reported in table A1. The results were summarised and incorporated into the landfill gas survey for the site.
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5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below

Yes	Total downtime of approx 33.5 hours for Jan - Dec 2014 as detailed in landfill gas survey
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6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?

Yes	
N/A	

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

Table A2: Summary of average emissions -continuous monitoring

Emission reference no:	Parameter/ Substance	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	ELV in licence or any revision thereof	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

Date**	Duration** (hours)	Location	Bypass protocol Reason for bypass	Impact magnitude	Corrective action

** 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

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

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

Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections

Yes	Licensed Emissions from Surface Water Pond Outlet (SWLO)
Yes	No evidence of any contamination

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*	Licensee Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
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	SELECT	SELECT	SELECT	SELECT

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

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

Was all monitoring carried out in accordance with EPA guidance and checks for Quality of Aquatic Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box

External/ Internal Assessment of Results/ Checks

Yes

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

Emission reference no:	Emission released to:	Parameter/ Substance/Code 1	Type of sample	Frequency of monitoring	Averaging period every 2 mins	ELV or trigger values in licence or any revision thereof*	Licensee 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
SWLO	Water	Ammonia (as N)	discrete	quarterly		0.23		0.285	mg/L	yes	DISCRETE METHODS	UK Standard method 1581	EPA Method W07	48.25	Averaged quarterly results compared to S.L. No 278 of 2007. 1 elevated ammonia result during Q4 2014 of 0.46mg/l effected mass loading of 48.25kg/yr. Using 3 previous quarterly results the mass load was 18.62kg/yr
SWLO	Water	Dissolved Oxygen	discrete	quarterly		-		123	% Sat	yes	Dissolved Oxygen Meter (Electrode)	APHA / AMWA "Standard Methods"	APHA Section 4500.0 G		Averaged quarterly results.
SWLO	Water	Conductivity	discrete	quarterly		2500		618	µS/cm@25°C	yes	Conductivity Meter (Electrode)	APHA / AMWA "Standard Methods"	APHA section 2510.B		Averaged quarterly results.
SWLO	Water	COD	discrete	quarterly				10	mg/L		Digestion + Spectrophotometry	ISO 15705:2002	EPA Method W01		Averaged quarterly results.
SWLO	Water	Chlorides (as Cl)	discrete	quarterly		50		21.25	mg/L	yes	DISCRETE METHODS	US EPA	EPA Method W07	3597.9	Averaged quarterly results.
SWLO	Water	pH	discrete	quarterly		6.5- 9.5		7.4	pH units	yes	pH Meter (Electrode)	APHA / AMWA "Standard Methods"	APHA Section 4500.H		Averaged quarterly results.
SWLO	Water	Suspended Solids	discrete	quarterly		35	All values < ELV	8	mg/L	see comments	Gravimetric analysis	ISEN 872:2005	EPA Method W03		Averaged quarterly results.
SWLO	Water	Temperature	discrete	quarterly		25		8.9	degrees C	yes	Thermometry				Averaged quarterly results.

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)										Lic No.	W0025-03	Year	2014	Averaged quarterly results.		
SWLO	Water	BOD	discrete	quarterly				-2.0								
SWLO	Water	Orthophosphate (P)	discrete	annually				<0.01								
SWLO	Water	Sulphate	discrete	annually	250			26								
SWLO	Water	Alkalinity	discrete	annually				265								
SWLO	Water	Boron	discrete	annually	1000			81								
SWLO	Water	Gadolinium and compounds (as Cd)	discrete	annually	5			<0.2								
SWLO	Water	Calcium	discrete	annually				120								
SWLO	Water	Copper	discrete	annually	2000			<1								
SWLO	Water	Iron	discrete	annually	200			<10								
SWLO	Water	lead	discrete	annually	10			<1								
SWLO	Water	Magnesium	discrete	annually				13								
SWLO	Water	manganese	discrete	annually	50			-5								
SWLO	Water	Mercury	discrete	annually	1			<0.5								
SWLO	Water	Nickel	discrete	annually	20			<1.0								
SWLO	Water	Potassium	discrete	annually				1.9								
SWLO	Water	Sodium	discrete	annually	200			8.9								
SWLO	Water	Zinc	discrete	annually				12								

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 complete results against LOD for Surface water or relevant receptor quality standards

Continuous monitoring

Additional information

Does your site carry out continuous emissions to water/sewer monitoring?	No	Continuous monitoring for TOC is carried out at the inlet to the surface water point as per licence requirements but not at the emissions point. There is no ELV set in the licence for TOC.
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If yes please summarise your continuous monitoring data below in Table W6 and compare it to its recent Emission Limit Value (ELV)

6	Did continuous monitoring equipment experience downtime? If yes please record downtime in table W6 below	No
7	Do you have a proactive service contract for each piece of continuous monitoring equipment on site?	Yes
8	Did abatement system bypass occur during the reporting year? If yes please complete table W5 below	N/A

Table W5: 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 exceedances in reporting year	Comments
	SELECT	SELECT	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	Reason for bypass	Corrective action	Was a report submitted to the EPA?	When was this report submitted?
					SELECT	
					SELECT	

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

Bund/Pipeline testing template

Lic No:

W0025-03

Year

2014

Bund testing

dropdown menu click to see options

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 licensed testing period (mobile bunds and chemstore included)

- Please provide integrity testing frequency period
- Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), tanks, sumps and containers? (containers refers to "Chemstore"
- Type units and mobile bunds
- How many bunds are on site?
- How many mobile bunds are on site?
- Are the mobile bunds included in the bund test schedule?
- How many of these mobile bunds have been tested within the required test schedule?
- How many of these mobile bunds have been tested within the required test schedule?
- How many of these sumps are integrity tested within the test schedule?
- How many of these sumps are integrity tested within the test schedule?
- Do all sumps and chambers have high level liquid alarms?
- If yes to Q11 are these passive systems included in a maintenance and testing programme?
- Is the Fire Water Retention Pond included in your integrity test programme?

Additional Information	
Condition 3.11 of licence requires tank and drum storage areas to be tested. This condition is relevant only to Leachate Tank and Leachate Lagoon.	
3 years	Yes
No	No
1 bund around leachate tank, 1 storage lagoon	
2	
0	
N/A	
0	
N/A	
No	
SELECT	
N/A	

No	
SELECT	
N/A	

Integrity test maintained on site?	Yes
Integrity test maintained on site?	Yes
Results of test	Pass
Integrity test failure explanation <50 words	
Corrective action taken	SELECT
Scheduled date for retest	2016
Results of retest (if in current reporting year)	

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)
IG Leachate Tank	Reinforced concrete	glass lined	Leachate	400	400	Structural assessment	BS8007	Dec-13	Yes	Pass			2016	
IG Leachate Lagoon	Other (Please specify)	Lined and covered lagoon	Leachate	350		Hydraulic test		Dec-13	Yes	Pass			2016	
* Capacity required for bunds and 20% of total containment risk as stated 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?														
16 Are channels/transfer systems to remote containment systems tested?														
17 Are channels/transfer systems compliant in both integrity and available volume?														

Pipeline/underground structure testing

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

Integrity test maintained on site?	No
Integrity test maintained on site?	SELECT

Integrity test maintained on site?	No
Integrity test maintained on site?	SELECT

Table B2: Summary details of pipeline/underground structures integrity test											
Structure ID	Type system	Material of construction:	Does this structure have secondary containment?	Type 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

				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 GVs 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 ADEP as a licensee return AMD answer questions 5-12 below.			A Tier 3 risk assessment for Powerstown Landfill was submitted to the EPA on 29/05/14. This report contains the requirement of the groundwater monitoring template and the conceptual site model.
5	Is the contamination related to operations at the facility (either current and/or historic)	yes		Capping of unlined cells completed. Tier 3 Risk Assessment completed. Recommendations as per section 9 of the Tier 3 Risk assessment are currently being carried out for the Powerstown Stream and groundwater monitoring. 2015
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	yes		
7	Please specify the proposed time frame for the remediation strategy	yes		
8	Is there a licence condition to carry out/update EIDA for the site?	yes		
9	Has any type of risk assessment been carried out for the site?	yes		Tier 3 Risk assessment submitted to EPA on 29/05/14.
10	Has a Conceptual Site Model been developed for the site?	yes		Contained in Tier 3 Risk Assessment
11	Have potential receptors been identified on and off site?	yes		
12	Is there evidence that contamination is migrating offsite?	yes		Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretation as an additional section in this AER.

Table 1: Upgradient Groundwater monitoring results

Date of sampling Quarterly	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration**	Average Concentration**	unit	GTVs*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data
2013	RCA2	Ammonia (as N) chloride		quarterly	0.02	0.01	mg/l	0.175 S.I.No 9 2010	SELECT**	no
		Disolved Oxygen		quarterly	96.8	81	% saturation			no
		Conductivity		quarterly	824	760	uS/cm	1875 S.I.No 9 2010		no
		pH		quarterly	7.6	7.3	pH units			no
		Temp		quarterly	14.6	11.6	oC			no
		TOC		quarterly	3.6	2.8	mg/l			no
		boron		annually	58		mg/l	750 S.I.No 9 2010		no
		cadmium		annually	<0.03		ug/l	3.79 S.I.No 9 2010		no
		calcium		annually	47		mg/l			no
		total chromium		annually	<0.05		ug/l	3.75 S.I.No 9 2010		no
		iron		annually	<0.05		ug/l	1500 S.I.No 9 2010		no
		copper		annually	0.8		ug/l			no
		lead		annually	<0.2		ug/l	18.75 S.I.No 9 2010		no
		magnesium		annually	14		ug/l			no
		manganese		annually	0.15		ug/l			no
		nickel		annually	<0.10		ug/l	15 S.I.No 9 2010		no
		potassium		annually	1		mg/l			no
		sodium		annually	8		mg/l	150 S.I.No 9 2010		no
		zinc		annually	0.02		ug/l			no
		fluoride		annually	<0.10		mg/l			no
		mercury		annually	<0.01		ug/l	0.75 S.I.No 9 2010		no
		sulphate		annually	25		mg/l	187.5 S.I.No 9 2010		no
		total alkalinity		annually	580		mg/l			no
		Orthophosphate		annually	<1		mg/l			no
		TON		annually	11		mg/l			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

Quarterly	Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTVs*	SELECT**	Upward trend in yearly average pollutant concentration over last 3 years of monitoring data
2013		GV8	Ammonia (as N) chloride		quarterly	0.62	Fluctuates between -0.02 and 0.62	mg/l	0.175; S.I.No.9 2010	SELECT**	no
			Dissolved Oxygen		quarterly	32.7	23.4	mg/l	187.5; S.I.No.9 2010	no	no
			Conductivity		quarterly	814	754	µS/cm	1875; S.I.No.9 2010	no	no
			pH		quarterly	7	7	pH units		no	no
			Temp		quarterly	12.4	11.7	°C		no	no
			TOC		quarterly	2	1.5	mg/l		no	no
			boron		annually	76		mg/l	750; S.I.No.9 2010	no	no
			cadmium		annually	0.02		mg/l	3.75; S.I.No.9 2010	no	no
			calcium		annually	102		mg/l	37.5; S.I.No.9 2010	no	no
			total chromium		annually	<1		mg/l	1500; S.I.No.9 2010	no	no
			copper		annually	<1		mg/l		no	no
			iron		annually	76		mg/l	18.75; S.I.No.9 2010	no	no
			lead		annually	<1		mg/l		no	no
			magnesium		annually	16		mg/l		no	no
			manganese		annually	7.2		mg/l		no	no
			nickel		annually	<1		mg/l	15; S.I.No.9 2010	no	no
			potassium		annually	4		mg/l		no	no
			sodium		annually	11		mg/l	150; S.I.No.9 2010	no	no
			zinc		annually	11		mg/l		no	no
			fluoride		annually	<0.25		mg/l		no	no
			mercury		annually	<0.5		mg/l	0.75; S.I.No.9 2010	no	no
			sulphate		annually	39		mg/l	187.5; S.I.No.9 2010	no	no
			total alkalinity		annually	282		mg/l		no	no
			Orthophosphate		annually	<0.01		mg/l		no	no

*Please note exceedance of generic assessment criteria (GAC) such as Groundwater Threshold Value (GTV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In order to compare the above table please compare the groundwater monitoring results to the appropriate generic assessment criteria (GAC) and the assessment tools available in the EPA pollution guides (see the link in G31)

Complete report of the link provided and submit separately through ADESA's LIAISON (ADMIN) SYSTEM as advised by the EPA.

Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013)

Groundwater monitoring template

Groundwater monitoring template

Groundwater monitoring template

Groundwater monitoring template

Groundwater monitoring template

Groundwater monitoring template

Groundwater monitoring template

Groundwater monitoring template

Groundwater monitoring template

Groundwater monitoring template

Groundwater monitoring template

Groundwater monitoring template

Environmental Liabilities template

Lic No:

W0025-03

Year

2014

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

		Commentary
1	ELRA initial agreement status	
	Submitted and not agreed by EPA;	Updated ELRA submitted in September 2014. No Comment back from EPA in relation to this
2	ELRA review status	
	Review required and completed	Submitted to EPA in September 2014
3	Amount of Financial Provision cover required as determined by the latest ELRA	
	1,595,200	
4	Financial Provision for ELRA status	
	Submitted and not agreed by EPA;	Awaiting EPA response
5	Financial Provision for ELRA - amount of cover	
	1,595,200	
6	Financial Provision for ELRA - type	
	Other please specify	Letter from Co Manager
7	Financial provision for ELRA expiry date	
	N/A	
8	Closure plan initial agreement status	
9	Closure plan review status	
	Closure plan submitted and agreed by EPA	CRAMP submitted on 29/08/14 and approved by EPA on 08/10/14
10	Financial Provision for Closure status	
	Submitted and agreed by EPA	
11	Financial Provision for Closure - amount of cover	
	7,415,618	
12	Financial Provision for Closure - type	
	Other please specify	Letter from Co Manager
13	Financial provision for Closure expiry date	
	N/A	

Environmental Management Programme/Continuous Improvement Programme template

Highlighted cells contain dropdown menu click to view

Lic No: W0025-03

Year 2014

Additional Information

1	Do you maintain an Environmental Management 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	Extend Gas collection system in Cell 17	100	Maintenance of the gas collection systems carried out daily at Powerstown Landfill. Additional vertical and horizontal collection	Individual	Improved Environmental Management Practices
Additional improvements	Refine Landfill Gas Model	100	External Consultants employed to re-define Gas model	Section Head	Provides up to date accurate data in relation to landfill gas generated at the site
Reduction of emissions to Water	Complete Tier 3 Risk assessment to Groundwater	100	Comprehensive Risk assessment prepared and conceptual site model updated	Section Head	Improved Environmental Management Practices
Materials Handling/Storage/Bundling	Review waste acceptance procedure	100	Review completed in relation to procedures for waste acceptance at the site	Landfill Manager	Improved Environmental Management Practices
Energy Efficiency/Utility conservation	Evaluation of practicable options for energy and resource efficiency	100	Energy Audit of site completed and recommendations carried out	Landfill Manager	Improved Environmental Management Practices
Additional Improvements	Complete all monitoring as required by W0025-03	100	Compliance monitoring carried out as per monitoring schedule and reports submitted	Individual	SELECT SELECT

Noise monitoring summary report

Lic No: W0025-03

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?
- 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?

Yes
No
Enter date
No

Table N1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is site compliant with noise limits (day/evening/night)?
24/10/2014	30 minutes	N4		60	53	64	71	No		Passing and distant traffic	SELECT
	30 minutes		N5	51	43	49	75	No		Distant rumbling noise of quarry operations, passing traffic, passing train, landfill traffic, recycling activities	Yes
	30 minutes		N6	49	42	48	72	No		Distant quarry operations, passing and distant traffic	Yes
	30 minutes		S1	68	58	72	89	No		Passing traffic: 65 vehicles in the first 5 minutes of the survey	Yes
	30 minutes		S2	64	47	59	89	No		Passing and distant traffic	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?

N/A

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

Resource Usage/Energy efficiency summary

Lic No:

W0025-03

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	
07/01/2014	Uploaded on EDEN 24/09/14
Yes	Carlow County Council has signed up to Energy MAP
N/A	

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 (MMWh/s)				
Total Energy Generated (MMWh/s)				
Total Renewable Energy Generated (MMWh/s)				
Electricity Consumption (MMWh/s)		101.39	85.11	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)		55.35	55	
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		Unaccounted for Water:
	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 use					
Groundwater					
Surface water					
Public supply		535			
Recycled water					
Total		72.87			

* 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)	118.58			118.58	0
Non-Hazardous (Tonnes)	48275.06	47229.6		1045.46	0

Resource Usage/Energy efficiency summary

Lic No: W0025-03

Year

2014

Table R4: Energy Audit finding recommendations							
Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Status and comments
07/01/2014	Reduce site MIC from 74 to <29	Contact service provider	energy audit	25	2014	Energy Engineer	completed during 2014
07/01/2014	Remove storage heaters and install de-humidifier in storage containers	Remove storage heaters and install de-humidifier in storage containers	energy audit	25	2014	Site Management	Completed February 2014
07/01/2014	Replace convector heater with radiant heater with appropriate controls	Replace convector heater with radiant heater with appropriate controls	energy audit	25	2014	Site Management	use of heaters reviewed within this area
07/01/2014	Improve housekeeping, optimise PC usage and lighting	Ensure lights and PCs and shut down when not in use	energy audit	minimal	2014	all staff	ongoing

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

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

Complaints and Incidents summary template

Ln: No: W0025-01

Year: 2014

Incidents

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

Yes

Additional information

*For information on how to report and what constitutes an incident [Click here to see incident](#)

Table 2: Incidents summary

Date of recurrence	Incident nature	Location of occurrence	Incident category* Please refer to guidance	Receptor	Cause of incident	Other cause/release (specify)	Activity in progress at time of incident	Regulation	Occurrence	Corrective action-20	Preventative action-20	Resolution status	Resolution date	Likelihood of recurrence
1/10/2014	Breach of EV	Boundary Gas wells	1. Minor	Air	Other (add details)	Gas migration	Normal activities	EPA	Recurring	continue to manage gas	operate flare	Complete	Feb-14	Medium
06/02/2014	Breach of EV	Boundary Gas wells	1. Minor	Air	Other (add details)	Gas migration	Normal activities	EPA	Recurring	continue to manage gas	operate flare	Complete	Mar-14	Medium
07/03/2014	Breach of EV	Boundary Gas wells	1. Minor	Air	Other (add details)	Gas migration	Normal activities	EPA	Recurring	continue to manage gas	operate flare	Complete	Mar-14	Medium
11/07/2014	Trigger level reached	Groundwater well GW1	1. Minor	Water	Other (add details)	unknown	Normal activities	EPA	Recurring	Tier 3 Risk Assessment	Tier 3 Risk Assessment	Ongoing	ongoing	Medium
27/02/2014	Leachate level above 1m	L2	1. Minor	No Uncontrolled release	Plant or equipment issues	Plant or equipment issues	Normal activities	EPA	New	pump leachate	pump maintenance	Complete	May-14	low
06/03/2014	Leachate level above 1m	L2	1. Minor	No Uncontrolled release	Plant or equipment issues	Plant or equipment issues	Normal activities	EPA	Recurring	pump leachate	pump maintenance	Complete	May-14	low
13/03/2014	Leachate level above 1m	L7	1. Minor	No Uncontrolled release	Plant or equipment issues	Plant or equipment issues	Normal activities	EPA	New	pump leachate	pump maintenance	Complete	Apr-14	low
20/03/2014	Leachate level above 1m	L2 and L7	1. Minor	No Uncontrolled release	Plant or equipment issues	Plant or equipment issues	Normal activities	EPA	Recurring	pump leachate	pump maintenance	Complete	Apr-14	low
27/03/2014	Leachate level above 1m	L2 and L7	1. Minor	No Uncontrolled release	Plant or equipment issues	Plant or equipment issues	Normal activities	EPA	Recurring	pump leachate	pump maintenance	Complete	Apr-14	low
11/04/2014	Breach of EV	Boundary Gas wells	1. Minor	Air	Other (add details)	Gas migration	Normal activities	EPA	Recurring	continue to manage gas	operate flare	Complete	Apr-14	low
09/05/2014	Breach of EV	Boundary Gas wells	1. Minor	Air	Other (add details)	Gas migration	Normal activities	EPA	Recurring	continue to manage gas	operate flare	Complete	May-14	Medium
13/06/2014	Breach of EV	Boundary Gas wells	1. Minor	Air	Other (add details)	Gas migration	Normal activities	EPA	Recurring	continue to manage gas	operate flare	Complete	Jun-14	Medium
19/06/2014	Trigger level reached	VOC Surface emissions	1. Minor	Air	Operational controls	Gas management	Normal activities	EPA	Recurring	active gas management, additional clay cover	gas management, installation of Tier 3 Risk Assessment	Complete	Sep-14	Medium
30/07/2014	Trigger level reached	Groundwater well GW1	1. Minor	No Uncontrolled release	Other (add details)	unknown	Normal activities	EPA	Recurring	Tier 3 Risk Assessment	Tier 3 Risk Assessment	Ongoing	ongoing	Medium
27/08/2014	Breach of EV	Boundary Gas wells	1. Minor	Air	Other (add details)	Gas migration	Normal activities	EPA	Recurring	continue to manage gas	operate flare	Complete	Sep-14	Medium
13/09/2014	Breach of EV	Boundary Gas wells	1. Minor	Air	Other (add details)	Gas migration	Normal activities	EPA	Recurring	continue to manage gas	operate flare	Complete	Oct-14	Medium
29/10/2014	Breach of EV	Boundary Gas wells	1. Minor	Air	Other (add details)	Gas migration	Normal activities	EPA	Recurring	continue to manage gas	operate flare	Complete	Nov-14	Medium
29/11/2014	Breach of EV	Boundary Gas wells	1. Minor	Air	Other (add details)	Gas migration	Normal activities	EPA	Recurring	continue to manage gas	operate flare	Complete	Dec-14	Medium
10/12/2014	Breach of EV	Boundary Gas wells	1. Minor	Air	Other (add details)	Gas migration	Normal activities	EPA	Recurring	continue to manage gas	operate flare	Complete	Dec-14	Medium
18/11/2014	Trigger level reached	VOC Surface emissions	1. Minor	Air	Other (add details)	Gas management	Normal activities	EPA	Recurring	line set up to the water automatically, flow rate through flare increased, extra horizontal gas lines installed in cell 17, additional cover applied	continue to manage gas and operate flare	Complete	Dec-14	Medium
Total number of incidents current year			20											
Total number of incidents previous year			17											
% reduction/increase			18% increase											

WASTE SUMMARY

SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES

PRTR facility 15029

Year

dropdown list click to see options

2014

W0025-03

Lic No:

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 No

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 Yes

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 Yes

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)	EMC code	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which applies to relevant EMC 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 -
	100101	Medite Channel, Smartly Waterford	bottom ash	3006.22	2730.54				D15 Storage pending any of the operations numbered D1 to D14	0	
	120504	Council Clean Up, local developments	clay / soil and stones	7495.24	7398.32				R13 Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	approx. 4500	Stockpiled for future use for site maintenance / capping
	190305	O Toole Composting	Stabilised Bio Waste	975.68	0				D15 Storage pending any of the operations numbered D1 to D14	0	Stabilised bio waste only accepted from May 2014 onwards
	120101	Council Clean Up	Rubble	1078.8	3786.1		Council procedures in other sections changed in relation to the disposal of Rubble material		R13 Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	0	
	120904	12- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	mixed construction and demolition waste (fills)	4790.86	0		C&D fills were not accepted at the site prior to 2014		D15 Storage pending any of the operations numbered D1 to D14	0	C&D fills approved for use as cover material
	120506		bedding spoil	418.4	0		bedding spoil not accepted previously		R13 Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	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
- 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
- 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 sledge register on site?

Yes	<input type="checkbox"/>
Yes	<input type="checkbox"/>
Yes	<input type="checkbox"/>
Yes	<input type="checkbox"/>
No	<input type="checkbox"/>

SECTION D-10 BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type and tonnage-landfill only

Waste type permitted for disposal	Authorised/declared annual tonnage for disposal (tpa)	Actual tonnage for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (mt)	Comments
Household (Residual), Commercial	37,000	46,105.68	85,000	191212, 200301, 200303, 200307, 200203, 190805
Treated Sludge	500	22.24		
C&D	1,000	0		
Industrial Non-Haz Solids	1,500	1,101.68		
	40,000	47,230		190801, 190802, 190902

Table 3 General Information-Landfill only

Area ID	Date handling commenced	Date handling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease handling	License permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Land disposal area occupied by waste	Inland area	Comments on liner type
										SELECT UNIT	SELECT UNIT	SELECT UNIT	
Cell 15 & 16	2006	Dec-12 No		Public	Non Hazardous	2016 No	No	No	No	120,000m ²	90,000m ²	40,000m ²	Cell 1-6 HDPE only Cell 7-13 composite liner (HDPE, 1m clay) Cell 15-18 composite (HDPE, 0.5 m bentonite)
Cell 17	Jan-13	Jan-15	Yes	Public	Non Hazardous	2016 No	No	No	No				
Cell 18	Jan-15	Jan-15	Yes	Public	Non Hazardous	2016 No	No	No	No				

Table 4 Environmental monitoring-landfill only

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 S33(A)(5) of WMA been submitted in reporting year +	Comments
Yes	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 m ² ha, a	Area capped other	Area with waste that should be permanently capped to meet under licence	What materials are used in the cap (eg geocomposite LDPE liner drainage geocomposite liner etc)	Comments
9,000m ²	27,000m ²	84,000m ²	84,000m ²	84,000m ²		

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

Volume of leachate in reporting year(m ³)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH ₄) mass load (kg/annum)	Leachate (Chloride) mass load (kg/annum)	Leachate treatment on-site	Specify type of leachate treatment	Comments
23329.4							

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

WASTE SUMMARY

Table 7 Landfill Gas-Landfill only

Gas Captured/Treated by LFG System m3	Power generated (MW / KWh)	Tied on site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
1,963,575	0	N/A	Yes	

Lic No:

W0025-03

Year

2014

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT	Name	M/C/E	Method Code	Method Used	Designation or Description	Please enter all quantities in this section in Kgs			
						Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
02	Carbon monoxide (CO)	M	EN 15058:2004			0.0	0.0	0.0	0.0
08	Nitrogen oxides (NOx/NO2)	M	EN 14792:2005			234.0	234.0	0.0	0.0
11	Sulphur oxides (SOx/SO2)	M	OTH		TGN 21, NDIR Absorption	932.0	932.0	0.0	0.0
01	Methane (CH4)	M	OTH		Total estimated methane generated minus methane flared	0.0	60030.0	0.0	60030.0

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

SECTION B : REMAINING PRTR POLLUTANTS

POLLUTANT	Name	M/C/E	Method Code	Method Used	Designation or Description	Please enter all quantities in this section in Kgs			
						Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
80	Chlorine and inorganic compounds (as HCl)	M	EN 1911-1 to 3:2003			4.81	4.81	0.0	0.0
84	Fluorine and inorganic compounds (as HF)	M	ISO/DIS 15713:2004			6.36	6.36	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	Name	M/C/E	Method Code	Method Used	Designation or Description	Please enter all quantities in this section in Kgs			
						Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
237	Volatile organic compounds (as TOC)	M	OTH		IONISATION DETECTION	8.77	8.77	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 (Total) Kg/yr for section A. Sector specific PRTR pollutants above. Please complete the table below:

Landfill:	Please enter summary data on the quantities of methane flared and/ or utilised	Powerstown Landfill Site			
		T (Total) kg/Year	Method Used		
Total estimated methane generation (as per site model)	546497.0	M/C/E	Method Code	Designation or Description	Facility Total Capacity m3
Methane flared	489467.0	E	MAB	Landgem model	N/A
Methane utilised in engine/s	0.0	M	MAB	measured at flare	0.0 (Total Flaring Capacity)
Net methane emission (as reported in Section A above)	60030.0	C	MAB	Calculated from prediction	0.0 (Total Utilising Capacity)

4.2 RELEASES TO WATERS [Link to previous years emissions data](#)

PRTR# : W0025 | Facility Name : Powerstowm Landfill Site | Filename : w0025_2014.xls | Report Year : 2014

05/05 2015 11:35

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO WATERS

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 on
Please enter all quantities in this section in Kgs

No. Annex II	POLLUTANT	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	QUANTITY			
							T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
0.0						0.0	0.0	0.0	0.0	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS

Please enter all quantities in this section in Kgs

No. Annex II	POLLUTANT	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	QUANTITY			
							T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
0.0						0.0	0.0	0.0	0.0	0.0

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

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

RELEASES TO WATERS

Please enter all quantities in this section in Kgs

Pollutant No	POLLUTANT	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	QUANTITY			
							T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
0.0						0.0	0.0	0.0	0.0	0.0

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

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

Plant# V0025 Facility Name Georgetown Landfill Site Emission# 40226 2014 06 Return# 15/05/2015 11:35

SECTION A : PTRR POLLUTANTS		OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER		Please enter all quantities in this section in Kgs		QUANTITY		
No. Annex II	POLLUTANT Name	M/C/E	METHOD 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

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

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)		OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER		Please enter all quantities in this section in Kgs		QUANTITY		
Pollutant No.	POLLUTANT Name	M/C/E	METHOD 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

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

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

PRTR# : W0025 | Facility Name : Powerstown Landfill Site | Filename : w0025_2014.xls | Return Year : 2014

05/05/2015 11:35

SECTION A : PRTR POLLUTANTS

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

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

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

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

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

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	W/C/E Method Used		Location of Treatment	Haz Waste - Name and Designation (Name and Address of Receiver/Disposer)	Haz Waste - Address of Next Destination (Name and Address of Receiver/Disposer)	Name and License / Permit No. and Address (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination (HAZARDOUS WASTE ONLY)
						Method Used	Method Used					
Within the County	13 02 05	Yes	8.6	mineral-based non-chlorinated engine, gear and lubricating oils	R13	M	Weighted	Offsite in Ireland	ENVA Ireland W0181-01 Greenstar WFP -KK-09-0003-01	--:Portlaoise, Co. Laois Ireland	ENVA Ireland W0181-01	--:Portlaoise Co. Laois Ireland
Within the County	15 01 02	No	57.8	plastic packaging (bottles & wrapping)	R13	M	Weighted	Offsite in Ireland	Rehab Glasco Ltd. WFP -KE-08-0357-01	--:Kilkenny Ireland		
Within the County	15 01 07	No	55.8	glass packaging	R13	M	Weighted	Offsite in Ireland	Greenstar WFP -KK-09-0003-01	--:Co. Louth Ireland		
Within the County	16 01 03	No	4.88	end-of-life tyres	R13	M	Weighted	Offsite in Ireland	Naas Co. Kildare Ireland Mooretown, Droimskin, Dundalk Co Louth Ireland	--:Portlaoise Co. Laois Ireland	R D Recycling 51727-1 KD Houhainen, Belgium Campine Recycling Ltd/MLAV/05/Campine Recycling Ltd/173/GVDA Beerse, Belgium	Houhainen, Belgium
To Other Countries	16 01 07	Yes	0.68	oil filters	R13	M	Weighted	Abroad	ENVA Ireland W0181-01			
To Other Countries	16 06 01	Yes	5.68	lead batteries	R13	M	Weighted	Abroad	ENVA Ireland W0181-01 The Recycling Village WFP-	--:Portlaoise, Co. Laois Ireland		Campine Recycling Ltd/173/GVDA Beerse, Belgium
Within the County	16 06 04	No	1.82	alkaline batteries (except 16 06 03)	R13	M	Weighted	Offsite in Ireland	Greenstar WFP -KK-09-0003-01	--:Co. Louth Ireland		
Within the County	17 08 02	No	30.68	gypsum-based construction materials other than those mentioned in 17 08 01	R13	M	Weighted	Offsite in Ireland	Greenstar WFP -KK-09-0003-01	--:Kilkenny Ireland		
Within the County	19 07 03	No	23329.4	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighted	Offsite in Ireland	Montarstown Waste Water Treatment Plant, D-0028 Greenstar WFP -KK-09-0003-01	--:Kilkenny Ireland		
Within the County	20 01 01	No	190.76	paper and cardboard	R13	M	Weighted	Offsite in Ireland	Greenstar WFP -KK-09-0003-01	--:Kilkenny Ireland		
Within the County	20 01 02	No	34.34	flat glass	R13	M	Weighted	Offsite in Ireland	OTCable Compositing WFP-	--:Kilkenny Ireland		
Within the County	20 01 08	No	33.88	biodegradable kitchen and canteen waste	R13	M	Weighted	Offsite in Ireland	CW-10-0003-01	--:Kilkenny Ireland		
Within the County	20 01 11	No	6.66	textiles	R13	M	Weighted	Offsite in Ireland	Mis Quinns Charly Shop - Greenstar WFP -KK-09-0003-01	--:Kilkenny Ireland		
Within the County	20 01 21	Yes	0.56	fluorescent tubes and other mercury-containing waste	R13	M	Weighted	Offsite in Ireland	KMK Metals W0113-01	Offray, Ireland		--:Tullamore, Co. Offray, Ireland
Within the County	20 01 23	Yes	21.76	discarded equipment containing chlorofluorocarbons	R13	M	Weighted	Offsite in Ireland	Ratcliffe Recycling Ltd WCP-DC-08-1130-01	Ballystahan, St. Margarets Dublin, Ireland	Ireland
Within the County	20 01 25	No	0.8	edible oil and fat	R13	M	Weighted	Offsite in Ireland	Pure Oil Ltd/NWQPO-10-02557-01	--:Ballyweather, Barntown, Co. Wexford Ireland		
To Other Countries	20 01 27	Yes	14.7	paints, inks, adhesives and resins containing dangerous substances	R13	M	Weighted	Abroad	ENVA Ireland W0181-01	--:Portlaoise, Co. Laois Ireland	Nehlsen D33300040 Braem en, Germany	Braemen, Germany
Within the County	20 01 35	Yes	66.6	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components	R13	M	Weighted	Offsite in Ireland	Ratcliffe Recycling Ltd WCP-DC-08-1130-01	Ballystahan, St. Margarets Dublin, Ireland	Ireland
Within the County	20 01 36	No	0.24	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R13	M	Weighted	Offsite in Ireland	Ratcliffe Recycling Ltd WCP-DC-08-1130-01	Ballystahan, St. Margarets Dublin, Ireland		
Within the County	20 01 36	No	38.0	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R13	M	Weighted	Offsite in Ireland	Greenstar WFP -KK-09-0003-01	--:Kilkenny Ireland		
Within the County	20 01 38	No	131.02	wood other than that mentioned in 20 01 37	R13	M	Weighted	Offsite in Ireland	Ratcliffe Recycling Ltd WCP-DC-08-1130-01	Ballystahan, St. Margarets Dublin, Ireland		
Within the County	20 01 40	No	100.3	metals	R13	M	Weighted	Offsite in Ireland	ENVA Ireland W0181-01	--:Kilkenny Ireland		

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 Referral No of Next Haz.Waste Facility Name and Licence/Permit No of Receiver/Disposer	Haz.Waste - Address of Next Destination Facility Non Haz.Waste Address of Receiver/Disposer	Name and Licence / Permit No. and Address of Final Receiver/ Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination (i.e. Final Receiver / Disposal Site (HAZARDOUS WASTE ONLY))
						M/C/E	Method Used					
Within the County	20 02 01	No	289.94	biodegradable waste	R13	M	weighed	Offsite in Ireland	Greenstar, WFP -KK-09-0003-01	---; Kilkenny, Ireland		
Within the County	15 01 05	No	9.06	composites packaging (tetrapac)	R13	M	weighed	Offsite in Ireland	Greenstar, WFP -KK-09-0003-01	---; Kilkenny, Ireland		

* Added a row by double-clicking the description of wastes on each row, double-click