

Facility Information Summary

Licence Register Number  
 Name of site  
 Site Location  
 NACE Code  
 Class of Activity  
 RBME risk category  
 National Grid Reference (6E, 6 N)

W0025-03
Powerstown Landfill
Powerstown, County Carlow
3821
Class 1
A2
270862, 168952

A brief description of the activities/process at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance improvements which were measured during the reporting year;

2011 activities consisted of the landfilling of 10,145 tonnes and the recovery of 1,533 tonnes. Disposal tonnes continued to decrease from previous years. No major infrastructural changes were carried out with the exception of minor amendments to the gas collection system in the active cells. In addition, three new groundwater monitoring boreholes were installed to the west of the site.

**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 Group/Facility manager <small>(or nominated, suitably qualified and experienced deputy)</small>	_____ Date
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**AER summary template-AIR emissions**

1 Does your site have licensed air emissions? If yes please complete table 1, 2 and 3 below for the current reporting year and answer further questions. If **you do not have** licenced emissions and **do not complete a solvent management plan** (table 5 and 6) you only need to complete table 1 fugitive emissions on site below

Additional information	
Yes	landfill gas flare emissions

**Table 1 Fugitive emissions**

Parameter /Substance	Annual fugitive emission (kg/annum)	Quantificaton method M/C/E
Carbon dioxide (CO2)	2,630,699	E
Methane (CH4)	874,936	E

**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 Table 2 below

No	
Yes	

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

**Table 2: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)**

Emission reference no:	Parameter/ Substance	Date 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)	% change in mass load from previous year +/-	Comments
W0025-3	Nitrogen oxides (NOx/NO2)	27/10/2011	< 150 mg/Nm3	100 % of values < ELV	43.27	mg/Nm3	yes	OTH	94.47		
W0025-3	Carbon Monoxide	27/10/2011	<50 mg/Nm3	100 % of values < ELV	1.76	mg/Nm3	yes	OTH	3.84		
W0025-3	Total Organic Carbon	27/10/2011	<`10 mg/Nm3	100 % of values < ELV	3.25	mg/Nm3	yes	OTH	7.09		
W0025-3	Hydrogen Chloride	27/10/2011	<50 mg/Nm3	100 % of values < ELV	0.31	mg/Nm3	yes	EN 1911-1 to 3:2003	0.67		
W0025-3	Hydrogen Fluoride	27/10/2011	<5 mg/Nm3	100 % of values < ELV	0.28	mg/Nm3	yes	ISO/DIS 15713:2004	0.61		
	SELECT			SELECT		SELECT	SELECT	SELECT			

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

**Continuous Monitoring**

4 Does your site carry out continuous air emissions monitoring?

If yes please review your continuous monitoring data and report the required fields below in Table 3 and compare it to its relevant Emission Limit Value (ELV)

5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table 3 below

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

7 Did your site experience any abatement system bypasses? If yes please detail them in table 4 below

**Table 3: 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)	% compliance current reporting year	Comments
	SELECT			SELECT	SELECT					

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

**Table 4: Abatement system bypass reporting table** [Bypass protocol](#)

Date*	Duration** (hours)	Location	Reason for bypass	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



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

Additional information

1 Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table 3 and 4 below for the current reporting year and answer further questions. If **you do not have** licenced emissions you only need to complete table 1 and /table 2 below for ambient monitoring and visual inspections

Yes	Only licensed for Suspended Solids, tested in EPA Regional Lab Kilkenny , Quarterly samples
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 2 below summarising only any evidence of contamination noted during visual inspections

**Table 1 Ambient monitoring**

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

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

**Table 2 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 3 below

No	Additional information
Yes	

4 Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring [External /Internal](#) Data Reported to the EPA? If no please detail what areas [Lab Quality](#) [Assessment of](#) require improvement in additional information box [checklist](#) [results checklist](#)

**Table 3: Licensed Emissions to water and /or wastewater (sewer)-periodic monitoring (non-continuous)**

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Date 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)	% change in mass load from previous year +/-	Comments
Suspended Solids	Water	LICENCED	discrete	08/03/2011	SELECT	35	All values < ELV	<5	mg/L	yes	Gravimetric analysis	Other (please specify)	EPA Rgional Kilken	788.384	-79	In 2010 AER there was a SS result of
				28/06/2011	grab sample											
				12/09/2011	grab sample											
				30/11/2011	grab sample											

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

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

**Continuous monitoring**

Additional Information

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

Yes	t this continous monitoring does not have any ELV set in licen
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If yes please summarise your continuous monitoring data below in Table 4 and compare it to its relevant Emission Limit Value (ELV)

6 Did continuous monitoring equipment experience downtime? If yes please record downtime in table 4 below 

No	
----	--

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

Yes	
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8 Did abatement system bypass occur during the reporting year? If yes please complete table 5 below 

No	
----	--

**Table 4: 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)	% compliance current reporting year	Comments
	SELECT	SELECT		SELECT	SELECT	SELECT					License does not have an ELV specified
	SELECT	SELECT		SELECT	SELECT	SELECT					

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

**Table 5: 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/pipe testing report summary ALL IPPC/WASTE licensed facilities Intensive agriculture facilities please use alternative template

**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 1 below listing all bunds and containment structures on site

1 containment structures on site

2 Please provide integrity testing frequency period

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

3 type units and mobile bunds)

Yes	
3 years	
Yes	

**Table 1: Summary details of bund integrity test**

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
Leachate Tank	LT	reinforced concrete	Leachate	440m3	400m3	Structural assessment		19th Oct 2010	Yes	Pass		SELECT	Oct-13	
Leachate Lagoon	LG	other (please specify)	Covered & Lined lagoon (2mmHD)	Leachate	1221 m3 (approx)	N/A	Other (please specify)	BS8007 Still Well & Hook Gauge method	17th Nov 2010	Yes	Pass	SELECT	Nov-13	

\* Capacity required should comply with 25% or 100% containment rate 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?

4 line with BS8007/EPA Guidance? [bunding and storage guidelines](#)

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

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

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

8 If yes to Q7 are these failsafe systems included in a maintenance and testing programme?

Yes	
N/A	
N/A	
Yes	
No	ime pumps/equipment have a scheduled maintenance programme with outside contractors

**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

1 underground structures and pipelines on site

2 Please provide integrity testing frequency period

No	
SELECT	

**Table 2: Summary details of underground structures/pipeline 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

- |                      |                             |                             |                        |                         |                       |                      |   |   |   |   |
|----------------------|-----------------------------|-----------------------------|------------------------|-------------------------|-----------------------|----------------------|---|---|---|---|
|                      | Yes                         | No                          | N/A                    | 1                       | 2                     | 3                    | 4 | 5 | 7 | 8 |
| reinforced concrete  | a)invest in capital improve | b) operational improvements | c)nothing              |                         |                       |                      |   |   |   |   |
| Pass                 | general purpose concrete    | prefabricated               | other (please specify) |                         |                       |                      |   |   |   |   |
| Storm                | Fail                        | Process concrete            | pvc                    | polypropylene           | other(please specify) | Mix (please specify) |   |   |   |   |
| steel                | ceramic                     | concrete                    |                        |                         |                       |                      |   |   |   |   |
| Double walled piping | Pipe in channel             | Other (please specify)      |                        |                         |                       |                      |   |   |   |   |
| CCTV                 | Hydraulic                   | Air                         | Combination            |                         |                       |                      |   |   |   |   |
| Replaced section     | Relined                     | Repaired crack              | Removed obstruction    | Other (please describe) |                       |                      |   |   |   |   |
| 3 years              | Other (please specify)      |                             |                        |                         |                       |                      |   |   |   |   |
| Hydraulic test       | Structural assessment       | Other (please specify)      |                        |                         |                       |                      |   |   |   |   |

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

Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action< 20 words	Resolution status	Resolution date	Further information
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
Total complaints open at start of reporting year		0					
Total new complaints received during reporting year		0					
Total complaints closed during reporting year		0					
Balance of complaints end of reporting year		0					

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

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

Date of occurrence	Incident nature	Location of occurrence	Incident category*please refer to guidance	Receptor	Cause of incident	Other cause(please specify)	Activity in progress at time of incident	Communication	Occurrence	Corrective action<20 words	Preventative action <20 words	Resolution status	Resolution date	Likelihood of reoccurrence
21/01/2011	Flare shut down	Flare	1. Minor	Air	Adverse weather		Normal activities	EPA	New	Restarted flare	none(caused b	Complete	22/01/2011	Low
30/03/2011	Breach of ELV	Licensed discharge point (typ	1. Minor	Air	Not related to site	activities	Normal activities	EPA	New	none possible	none	Complete	30/03/2011	Medium
30/01/2011	Breach of ELV	6 Perimeter gas wells	1. Minor	Air	Other (add details	Results from old ar	Normal activities	EPA	Recurring	none possible	none	Complete	30/01/2011	Medium
28/02/2011	Breach of ELV	3 Perimeter gas wells	1. Minor	Air	Other (add details	Results from old ar	Normal activities	EPA	Recurring	none possible	none	Complete	28/02/2011	Low
10/03/2011	Breach of ELV	2 GW monitoring locations	1. Minor	No Uncontrolled release	Not related to site	activities	Normal activities	EPA	Recurring	none possible	none	Complete	10/03/2011	Medium
09/04/2011	Flare shut down	Flare	1. Minor	Air	Plant or equipment issues		Non Routine maint	EPA	New	Reconnected gas pipe	none	Complete	10/04/2011	Low
07/04/2011	Flare shut down	Flare	1. Minor	Air	Disconnected gas pipe		Normal activities	EPA	New	Routine maintenance		Complete	07/04/2011	Low
02/04/2011	Flare shut down	Flare	1. Minor	Air	Electrical problem		Normal activities	EPA	New	Repairs carried out		Complete	05/04/2011	Low
18/05/2011	Breach of ELV	5 perimeter gas wells	1. Minor	Air	Other (add details	Results from old ar	Normal activities	EPA	New	none possible		Complete	18/05/2011	Low
08/06/2011	Breach of ELV	3 perimeter gas wells	1. Minor	Air	Other (add details	Results from old ar	Normal activities	EPA	New	none possible		Complete	08/06/2011	Low
21/07/2011	Breach of ELV	5 perimeter gas wells	1. Minor	Air	Other (add details	Results from old ar	Normal activities	EPA	Recurring	none possible		Complete	21/07/2011	Low
18/07/2011	Flare shut down	Flare	1. Minor	Air	Plant or equipment issues		Routine maintenanc	EPA	New	none possible		Complete	18/07/2011	Low
15/07/2011	Breach of ELV	2 GW monitoring locations	1. Minor	No Uncontrolled release	Not related to site	activities	Normal activities	EPA	Recurring	none possible		Complete	15/07/2011	Low
11/07/2011	Flare shut down	Flare	1. Minor	Air	Plant or equipment issues		Normal activities	EPA	New	Repairs carried out		Complete	11/07/2011	Low
31/08/2011	Breach of ELV	6 Perimeter gas wells	1. Minor	Air	Other (add details	Results from old ar	Normal activities	EPA	Recurring	none possible		Complete	31/08/2011	Low
15/08/2011	Flare shut down	Flare	1. Minor	Air	Plant or equipment issues		Normal activities	EPA	New	Repairs carried out		Complete	15/08/2011	Low
09/08/2011	Flare shut down	Flare	1. Minor	Air	Plant or equipment issues		Normal activities	EPA	New	Repairs carried out		Complete	09/08/2011	Low
22/09/2011	Flare shut down	Flare	1. Minor	Air	Plant or equipment issues		Normal activities	EPA	New	Repairs carried out		Complete	22/09/2011	Low
26/11/2011	Monitoring equipment offline	SCADA	1. Minor	No Uncontrolled release	Plant or equipment issues		Normal activities	EPA	New	Repairs carried out		Complete	08/11/2011	Low
25/10/2011	Breach of ELV	2 GW monitoring locations	1. Minor	No Uncontrolled release	Not related to site	activities	Normal activities	EPA	Recurring	none possible		Complete	25/10/2011	Low
20/10/2011	Breach of ELV	4 PERIMETER gas wells	1. Minor	No Uncontrolled release	Not related to site	activities	Normal activities	EPA	New	none possible		Complete	20/10/2011	Low
03/10/2011	Breach of ELV	6 Perimeter gas wells	1. Minor	No Uncontrolled release	Not related to site	activities	Normal activities	EPA	Recurring	none possible		Complete	03/10/2011	Low



15/11/2011	Breach of ELV	4 PERIMETER gas wells	1. Minor	No Uncontrolled release	Not related to site activities	Normal activities	EPA	Recurring	none possible		Complete	15/11/2011	Low
05/12/2012	Breach of ELV	5 perimeter gas wells	1. Minor	No Uncontrolled release	Not related to site activities	Normal activities	EPA	Recurring	none possible		Complete	05/12/2011	Low
Total number of incidents current year													
Total number of incidents previous year													
% reduction/increase													

Total number of incidents current year	24
Total number of incidents previous year	14
% reduction/increase	58%

**Groundwater /Contaminated land summary report**

	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 Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12	yes
5 Is the contamination related to operations at the facility (either current and/or historic)	yes
6 Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site	yes capping works at unlined cells
7 Please specify the proposed time frame for the remediation strategy	yes completed
8 Is there a licence condition to carry out/update ELRA for the site?	yes
9 Has any type of risk assesment been carried out for the site?	yes In progress at present
10 Has a Conceptual Site Model been developed for the site?	yes
11 Have potential receptors been identified on and off site?	yes
12 Is there evidence that contamination is migrating offsite?	yes

**Table 1: Upgradient Groundwater monitoring results**

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SW EQS	% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
2011	RCA2	Temp		Quarterly	11	10.73	mg/l			0	SELECT
2011	RCA2	DO		Quarterly	76	74.8	mg/l			0	yes
2011	RCA2	PH		Quarterly	7.4	7.4	mg/l			10	no
2011	RCA2	Cond.		Quarterly	782	769	mg/l	1,875		-3	yes
2011	RCA2	Ammonia		Quarterly	0.02	0.015	mg/l	0.175		0%	no
2011	RCA2	Chloride		Quarterly	18	17	mg/l	187.5		0%	no
2011	RCA2	O-P		Annually	0.03		mg/l			40%	
2011	RCA2	TON		Annually	9.5		mg/l			0%	
2011	RCA2	Fluoride		Annually	0		mg/l		0.5		
2011	RCA2	Sulphate		Annually	37		mg/l	187.5			
2011	RCA2	Alkalinity		Annually	317		mg/l				
2011	RCA2	TOC		Annually	NM		mg/l				
2011	RCA2	Calcium		Annually	140		mg/l				
2011	RCA2	Magnesium		Annually	17		mg/l				
2011	RCA2	Potassium		Annually	2.2		mg/l				
2011	RCA2	Sodium		Annually	9.8		mg/l	150			
2011	RCA2	Cyanide		Annually	0		mg/l	0.0375			
2011	RCA2	Aluminium		Annually	270		ug/l	150			
2011	RCA2	Antimony		Annually	0		ug/l				
2011	RCA2	Arsenic		Annually	1		ug/l	7.5			
2011	RCA2	Barium		Annually	15		ug/l				
2011	RCA2	Beryllium		Annually	0		ug/l				
2011	RCA2	Boron		Annually	100		ug/l	750			
2011	RCA2	Cadmium		Annually	0		ug/l	3.75			
2011	RCA2	Chromium		Annually	0		ug/l	37.5			
2011	RCA2	Cobalt		Annually	0.5		ug/l				
2011	RCA2	Copper		Annually	0.9		ug/l	1500			
2011	RCA2	Iron		Annually	580		ug/l				
2011	RCA2	Lead		Annually	0		ug/l	18.75			
2011	RCA2	Manganese		Annually	35		ug/l				
2011	RCA2	Mercury		Annually	0		ug/l	0.75			
2011	RCA2	Molybdenum		Annually	0		ug/l				
2011	RCA2	Nickel		Annually	1.2		ug/l	15			
2011	RCA2	Selenium		Annually	2.2		ug/l				
2011	RCA2	Thallium		Annually	0		ug/l				
2011	RCA2	Tin		Annually	0		ug/l				
2011	RCA2	Uranium		Annually	6		ug/l			-17%	
2011	RCA2	Vanadium		Annually	0.8		ug/l				
2011	RCA2	Zinc		Annually	22		ug/l		100		
2011	RCA2	VOC		Annually	nd		ug/l				
2011	RCA2						SELECT				SELECT

+.+ where average indicates arithmetic mean

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

**Table 2: Downgradient Groundwater monitoring results**

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SW EQS	% change in average concentration previous year +/-	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
2011	GW8	Temp		Quarterly		11.6	SELECT			0	yes
2011	GW8	DO		Quarterly		20				11	no
2011	GW8	PH		Quarterly		7.2				0	no
2011	GW8	Cond.		Quarterly		777		1,875		0.4	no
2011	GW8	Ammonia		Quarterly	0.91	0.515	mg/l	0.175		-122%	no
2011	GW8	Chloride		Quarterly	28	24.5	mg/l	187.5		0%	no
2011	GW8	O-P		Annually	0.03		mg/l				
2011	GW8	TON		Annually	9.03		mg/l				
2011	GW8	Fluoride		Annually	<0.25		mg/l		0.5		
2011	GW8	Sulphate		Annually	37		mg/l	187.5			
2011	GW8	Alkalinity		Annually	291		mg/l				
2011	GW8	TOC		Annually			nm				
2011	GW8	Calcium		Annually	120		mg/l				
2011	GW8	Magnesium		Annually	18		mg/l				
2011	GW8	Potassium		Annually	4.6		mg/l				
2011	GW8	Sodium		Annually	13		mg/l	150			
2011	GW8	Cyanide		Annually	<0.05		mg/l	0.0375			
2011	GW8	Aluminium		Annually	42		ug/l	150			
2011	GW8	Antimony		Annually	<0.05		ug/l				
2011	GW8	Arsenic		Annually	<0.05		ug/l	7.5			
2011	GW8	Barium		Annually	29		ug/l				
2011	GW8	Beryllium		Annually	<0.05		ug/l				
2011	GW8	Boron		Annually	96		ug/l	750			
2011	GW8	Cadmium		Annually	<0.05		ug/l	3.75			
2011	GW8	Chromium		Annually	<0.05		ug/l	37.5			
2011	GW8	Cobalt		Annually	<0.05		ug/l				
2011	GW8	Copper		Annually	<0.05		ug/l	1500			
2011	GW8	Iron		Annually	87		ug/l				
2011	GW8	Lead		Annually	<0.05		ug/l	18.75			
2011	GW8	Manganese		Annually	<25		ug/l				
2011	GW8	Mercury		Annually	<0.05		ug/l	0.75			
2011	GW8	Molybdenum		Annually	<0.05		ug/l				
2011	GW8	Nickel		Annually	2.3		ug/l	15			
2011	GW8	Selenium		Annually	0.9		ug/l				
2011	GW8	Thallium		Annually	<0.5		ug/l				
2011	GW8	Tin		Annually	<1		ug/l				
2011	GW8	Uranium		Annually	3.8		ug/l				
2011	GW8	Vanadium		Annually	<0.5		ug/l				
2011	GW8	Zinc		Annually	18		ug/l		100		
2011	GW8	VOC		Annually	ND		ug/l				SELECT

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

\*\*Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS), if the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS)

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

**Table 3: Soil results**

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

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





**Noise Monitoring Report Summary**

- 1 Was noise monitoring a licence requirement for the AER period?  
If yes please fill in table 1 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? [Draft Noise Guidance](#)
- 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 1: 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)?
09/12/2011	30 mins	N4		58	51	62	67	No	SELECT	No noise from landfill, Located at old entrance at main road.Main noise source is due to passing traffic.Bir	Yes
09/12/2011	30 mins	N5		55	47	54	77	No		Passing traffic and machinery noise in adjacent quarry	Yes
09/12/2011	30 mins	N6		55	47	55	75	No		Significant noise activity from adjacent quarry	Yes
09/12/2011	30 mins	S1		69	56	73	82	No		No noise from landfill, passing traffic only	Yes
09/12/2011	30 mins	S2		66	51	64	91	No		No noise from landfill, passing traffic and quarry activities only	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?

Noise levels at N4 ,S1 & S2 exceed the 55dbB(A) limit, but source of noise was due to outside influence, quarry activities & road traffic, not landfill activities. Powerstown landfill is located beside 2 active quarries and the m9 motorway. Landfill operations audible at N5 only, and this was equal to the

Resource usage/ Energy Efficiency

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below  
 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  
 2  
 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information  
 3

Additional information	
2006	
no	
	N/A

Energy Use	Previous year kWh	Current year kWh	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total				
Electricity	91,932	82,469	-10.30%	
Fossil Fuels:				
Heavy Fuel Oil	0	0		
Light Fuel Oil	489,479	350,000		
Natural gas	0	0		
Coal/Solid fuel	0	0		
Renewable energy generated on site	0	0		

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

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

Water use	Previous year m3/yr.	Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Groundwater	0	0		
Surface water	0	0		
Public supply	172	101	-41.30%	
Total	172	101		

\* 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

Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
2006	Instal timers on leachate pumps	Use off-peak pumping	energy audit		Not completed to date	landfill manager		
2006	instal SCADA system to track power usage		2007 energy audit		2007	landfill manager	2007	
2006	fit an inverter to the flare	reduce power consumption	energy audit		Not completed to date	landfill manager		
2006	track contractor fuel usage	include condition in tender docs.	energy audit		2012	landfill manager	2012	
		update the energy audit			2012	landfill manager	2012	
			other initiative (please specify)					

**SECTION A-PRTR WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES** PRTR facility logon  dropdown list click to see options

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

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

1  Yes

If yes please enter details in table 1 below

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

3  No

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

3  No

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

Licensed annual tonnage limit for your site (total tonnes/annum)	EWC code	Source of waste accepted	Description of waste accepted <i>Please enter an accurate and detailed description - which European Waste Catalogue EWC codes</i>	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/Incr ease 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 -
E.g. 37,000	200301	mixed municipal waste		3,433	4,717	-27%	CCC does not collect waste, No control on how		D1-Deposit into or onto land	0	
E.g.	200201	garden and park waste		817	444	84%		0%	D1-Deposit into or onto land	0	
	200303	street cleaning residues		3,200	7,376	-57%			D1-Deposit into or onto land	0	
1,000	170107	mixture of concrete etc.		14	0				D1-Deposit into or onto land	0	
	170904	mixed construction waste		723	300				D1-Deposit into or onto land	0	
1,500	190802	waste from desanding		1,562	545				D1-Deposit into or onto land	0	
500	190699	waste not specified		397	313				D1-Deposit into or onto land	0	
							#DIV/0!		SELECT		

**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 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
e.g. Household (residual)	37,000	10,146		This figure includes commercial waste, household waste,cleansing waste and council waste
Industrial non hazardous solids	1,500	1,562	165,000	
Sewage sludge	500	381		
C&D	1,000	0		

**Table 3 General information-Landfill only**

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area	Comments on liner type
										SELECT UNIT	SELECT UNIT	SELECT UNIT	
Cell 15-16	2006	N/A	No	Public	Non Hazardous	N/A	No	No	No	99,000 m sq.	59,000 m sq.	40,000 m sq.	varies

**Table 4 Environmental monitoring-landfill onl** [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 SS3(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
SELECT UNIT	SELECT UNIT					
0 m sq.	15,000 m sq.	84,000 m sq.			0 gas geocomposite LLDPE liner drainage geocomposite 1 metre clay	

\*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  No

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
16,675.74	800.4	12006.5	7170.6	13057	No	wwtpt	

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
180 to 360 m cu./hour	0	0	Yes	





[Guidance to completing the PRTR workbook](#)

# AER Returns Workbook

Version 1.1.13

<b>REFERENCE YEAR</b>	2011
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## 1. FACILITY IDENTIFICATION

Parent Company Name	Carlow County Council
Facility Name	Powerstown Landfill Site
PRTR Identification Number	W0025
Licence Number	W0025-03

Waste or IPPC Classes of Activity

No.	class_name
3.5	Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.
3.1	Deposit on, in or under land (including landfill). Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
3.13	Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.
3.4	Biological treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1. to 10. of this Schedule.
3.6	Physico-chemical treatment not referred to elsewhere in this Schedule (including evaporation, drying and calcination) which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1. to 10. of this Schedule.
3.7	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
4.11	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
4.13	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.2	Recycling or reclamation of metals and metal compounds.
4.3	Recycling or reclamation of other inorganic materials.
4.4	Use of any waste principally as a fuel or other means to generate energy.
4.9	
Address 1	Kilkenny Rd.
Address 2	Co Carlow
Address 3	
Address 4	
	Carlow
Country	Ireland
Coordinates of Location	-6.15456 53.5062
River Basin District	IESE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
<b>AER Returns Contact Name</b>	Fergus Mulhare
<b>AER Returns Contact Email Address</b>	fmulhare@carlowcoco.ie
<b>AER Returns Contact Position</b>	Environmental Technician
<b>AER Returns Contact Telephone Number</b>	059 9172402
<b>AER Returns Contact Mobile Phone Number</b>	
<b>AER Returns Contact Fax Number</b>	059 9146356
<b>Production Volume</b>	0.0
<b>Production Volume Units</b>	0
<b>Number of Installations</b>	1
<b>Number of Operating Hours in Year</b>	8554
<b>Number of Employees</b>	0
<b>User Feedback/Comments</b>	Releases to air results in Section A, B, C were calculated using oxygen corrected results (3%). Discharges to surface water were calculated using a flow rate of 5l/sec for discharge from the SW pond to receiving waters
<b>Web Address</b>	0

## 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?	No
Have you been granted an exemption?	No
If applicable which activity class applies (as per Schedule 2 of the regulations)?	
Is the reduction scheme compliance route being used?	

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

[ PRTR# : W0025 | Facility Name : Powerstown Landfill Site | Filename : PRTR 2011.xls | Return Year : 2011 ]

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**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 Used		Flare 1	QUANTITY		
			Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
02	Carbon monoxide (CO)	M	PER	Flue gas analyser, Testo 350/454 MXL	3.84265728	3.84265728	0.0	0.0
08	Nitrogen oxides (NOx/NO2)	M	PER	Flue gas analyser, Testo 350/454 MXL	94.47260256	94.47260256	0.0	0.0
11	Sulphur oxides (SOx/SO2)	M	PER	Flue gas analyser, Testo 350/454 MXL	288.9634608	288.9634608	0.0	0.0
01	Methane (CH4)	M	MAB	LandGEM calculation used	0.0	874936.0	0.0	874936.0

\* 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 Used		Flare 1	QUANTITY		
			Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
80	Chlorine and inorganic compounds (as HCl)	M	PER	Impinger train containing 0.10 molar sodium hydroxide and deionised water solution in accordance EN1911 & EPA 26A	0.67683168	0.67683168	0.0	0.0
84	Fluorine and inorganic compounds (as HF)	M	PER	Impinger train containing 0.10 molar sodium hydroxide and deionised water solution in accordance EN1911 & EPA 26A	0.61133184	0.61133184	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 Used		Flare 1	QUANTITY		
			Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
351	Total Organic Carbon (as C)	M	PER	FID na non-methane hydrocarbon cutter	7.095816	7.095816	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:		Powerstown Landfill Site			
Please enter summary data on the quantities of methane flared and / or utilised					
Total estimated methane generation (as per site model)	T (Total) kg/Year	M/C/E	Method Used		Facility Total Capacity m3 per hour
			Method Code	Designation or Description	
	1256000.0	C	GasSim / Landgem	Model calculation	N/A
Methane flared	381064.0	M	-	Calculated based on flare flow and recorded run-time	0.0 (Total Flaring Capacity)
Methane utilised in engine/s	0.0	M	-	-	0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	874936.0	C	Calculated	Calculated	N/A

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

[ PRTR# : W0025 | Facility Name : Powerstown Landfill Site | Filename : PRTR 2011.xls | Return Year : 2011 |

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**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

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

POLLUTANT		Method Used			Please enter all quantities in this section in KGs							QUANTITY		
No. Annex II	Name	M/C/E	Method Code	Designation or Description	SWLO	Emission Point 1	Emission Point 2	Emission Point 3	Emission Point 4	Emission Point 5	Emission Point 6	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
79	Chlorides (as Cl)	M	ALT	EPA Laboratory Kilkenny		2838.24	0.0	0.0	0.0	0.0	0.0	2838.24	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 Used			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	SWLO	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 Used			Please enter all quantities in this section in KGs			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	SWLO	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
238	Ammonia (as N)	M	ALT	EPA Laboratory Kilkenny	36.2664	36.2664	0.0	0.0
240	Suspended Solids	M	ALT	EPA Laboratory Kilkenny	788.384	788.384	0.0	0.0
332	Ortho-phosphate (as PO4)	M	ALT	EPA Laboratory Kilkenny	6.3072	6.3072	0.0	0.0
305	Calcium	M	ALT	EPA Laboratory Kilkenny	204898.4	204898.4	0.0	0.0
320	Magnesium	M	ALT	EPA Laboratory Kilkenny	2207.52	2207.52	0.0	0.0
341	Sodium	M	ALT	EPA Laboratory Kilkenny	1561.032	1561.032	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](#)

**SECTION A : PRTR POLLUTANTS**

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

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

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

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

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

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

| PRTR# : W0025 | Facility Name : Powerstown Landfill Site | Filename : PRTR 2011.xls | Return Year : 2011 |

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**SECTION A : PRTR POLLUTANTS**

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

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

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

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

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR#: W0025 | Facility Name: Powerstown Landfill Site | Filename: PRTR 2011.xls | Return Year: 2011 |

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Please enter all quantities on this sheet in Tonnes

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Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste: Name and Licence/Permit No of Next Destination Facility 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)
						M/C/E	Method Used					
Within the Country	19 07 03	No	16675.74	landfill leachate other than those mentioned in 19 07 02	D15	M	Weighed	Offsite in Ireland	Mortarstown Waste Water Treatment Plant, D-0028	Carlow,.....,Ireland		
Within the Country	20 01 08	No	30	biodegradable kitchen and canteen waste	D15	M	Weighed	Offsite in Ireland	O'Toole Composting,WFP-CW-10-0003-01	Balintrane,Fenagh,Co. Carlow,.,Ireland		
Within the Country	20 02 01	No	331	biodegradable waste	D15	M	Weighed	Offsite in Ireland	Greenstar,WFP -KK-09-0003-01	.,.,.,Kilkenny,Ireland		
Within the Country	15 01 01	No	80	paper and cardboard packaging	D15	M	Weighed	Offsite in Ireland	Greenstar,WFP -KK-09-0003-01	.,.,.,Kilkenny,Ireland		
Within the Country	20 01 01	No	112	paper and cardboard	D15	M	Weighed	Offsite in Ireland	Greenstar,WFP -KK-09-0003-01	.,.,.,Kilkenny,Ireland		
Within the Country	15 01 07	No	70	glass packaging	D15	M	Weighed	Offsite in Ireland	Rehab Glasco Ltd.,WFP-KE-08-0357-01	.,.,Naas,Co. Kildare,Ireland		
Within the Country	20 01 02	No	43	glass	D15	M	Weighed	Offsite in Ireland	Greenstar,WFP -KK-09-0003-01	.,.,.,Kilkenny,Ireland		
Within the Country	15 01 04	No	3	metallic packaging	D15	M	Weighed	Offsite in Ireland	Rehab Glasco Ltd.,WFP-KE-08-0357-01	.,.,Naas,Co. Kildare,Ireland		
Within the Country	15 01 04	No	10	metallic packaging	D15	M	Weighed	Offsite in Ireland	Danelle Recycling,WP01/08	.,.,.,Ireland		
Within the Country	20 01 40	No	152	metals	D15	M	Weighed	Offsite in Ireland	Greenstar,WFP -KK-09-0003-01	.,.,.,Kilkenny,Ireland		
Within the Country	15 01 02	No	66	plastic packaging	D15	M	Weighed	Offsite in Ireland	Greenstar,WFP -KK-09-0003-01	.,.,.,Kilkenny,Ireland		
Within the Country	15 01 02	No	10	plastic packaging	D15	M	Weighed	Offsite in Ireland	Danelle Recycling,WP01/08	.,.,.,Ireland		
Within the Country	15 01 05	No	6	composite packaging	D15	M	Weighed	Offsite in Ireland	Greenstar,WFP -KK-09-0003-01	.,.,.,Kilkenny,Ireland		
Within the Country	20 01 11	No	10	textiles	D15	M	Weighed	Offsite in Ireland	Mrs Quinns Charity Shop,-	.,.,.,Ireland		
Within the Country	15 01 03	No	323	wooden packaging	D15	M	Weighed	Offsite in Ireland	Greenstar,WFP -KK-09-0003-01	.,.,.,Kilkenny,Ireland		
Within the Country	16 06 01	Yes	10	lead batteries	D15	M	Weighed	Offsite in Ireland	ENVA Ireland,W0181-01	.,.,Portlaoise,Co. Laois,Ireland		
Within the Country	16 06 04	No	3.18	alkaline batteries (except 16 06 03)	D15	M	Weighed	Offsite in Ireland	The Recycling Village,WFP-LH-10-0010-01	.,.,Co. Louth,Ireland		
Within the Country	13 02 05	Yes	8.26	mineral-based non-chlorinated engine, gear and lubricating oils	D15	M	Weighed	Offsite in Ireland	ENVA Ireland,W0181-01	.,.,Portlaoise,Co. Laois,Ireland		
Within the Country	20 01 25	No	1.66	edible oil and fat municipal wastes not otherwise specified	D15	M	Weighed	Offsite in Ireland	Pure Oil,KK/288/05	.,.,Barrtown,Co. Wexford,Ireland		
Within the Country	20 03 99	No		waste paint and varnish including containers)	D15	M	Weighed	Offsite in Ireland	ENVA Ireland,W0181-01	.,.,Portlaoise,Co. Laois,Ireland		
Within the Country	16 01 03	No		end-of-life tyres	D15	M	Weighed	Offsite in Ireland	Laois Tyre Recycling,WCP-OY-10-636-01	.,.,Mountmellick,Co. Laois,Ireland		
<b>Within the Country</b>	<b>17 08 02</b>	<b>No</b>	20	gypsum-based construction materials other than those mentioned in 17 08 01	D15	M	Weighed	Offsite in Ireland	Greenstar,WFP -KK-09-0003-01	.,.,.,Kilkenny,Ireland		
Within the Country	20 03 99	No	0.72	municipal wastes not otherwise specified (fluorescent lights)	D15	M	Weighed	Offsite in Ireland		.,.,Tullamore,Co. Offaly,Ireland		
Within the Country	20 03 99	No	0.3	municipal wastes not otherwise specified (filament only no EWC)	D15	M	Weighed	Offsite in Ireland	KMK Metals,- Irish Lamp Recycling ,WFP-KE-08-0348-01	.,.,.,Ireland		

\* 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](#)