Facility Information Summary

AER Reporting Year	2012
Licence Register Number	W0025-03
Name of site	Powerstown Landfill
Site Location	Powerstown, Co. 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 operated as a waste transfer station from 25/01/2012 to 05/09/2012. During this time a total of 2984.7 tonnes of material were accepted on-site and were removed and disposed of by Ray Whelan Ltd W0158-01. Detailed breakdown of these waste types and tonnages are reported in the PRTR for the site. A total of 5664.68tonnes of material was landfilled at Powerstown Landfill during January, September, October, November and December 2012. A total of 1262 tonnes of material was accepted at the civic amenity site at Powerstown Landfill during 2012. Details of these waste types and tonnages are also presented in the PRTR for the site. Environmental Monitoring was carried out as per licence requirements. Details of ELV and trigger level exceedances are presented In the Complaints - Incidents section of this report.

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.

Ray Whelan	27/03/13
Signature	Date
Group/Facility manager (or nominated, suitably qualified and experienced deputy)	

AIR-summary template

Lic No: W0025-03 Year 2012

Answer all questions and complete all tables where relevant

			Additional information
1	Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If **you do not have** licenced emissions and **do not complete a solvent management plan** (table A4 and A5) you do not need to complete the tables	Yes	Landfill Gas Flare

Periodic/Non-Continuous Monitoring

2	Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below	No	
3	Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? Basic air monitoring checklist AGN2	Yes	

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

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision therof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
LFGF1	Total Nox (as NO2)	Annually	150mg/Nm3	No 30min mean can exceed the ELV	49.01	mg/Nm3	yes	OTH	95.9	Mass load reported as per PRTR results
	Carbon monoxide (CO)	Annually	50mg/Nm3	No 30min mean can exceed the ELV	3.98	mg/Nm3	yes	OTH	7.78	
	Total Organic Carbon (as C)	Annually	10mg/m3	No 30min mean can exceed the ELV	5.1	mg/Nm3	yes	OTH	9.97	
	Hydrogen Chloride	Annually	50mg/Nm3	No 30min mean can exceed the ELV	2.44	mg/Nm3	yes	EN 1911-1 to 3:2003	4.77	
	Hydrogen Fluoride	Annually	5mg/m3	No 30min mean can exceed the ELV	0.73	mg/Nm3	yes	ISO/DIS 15713:2004	1.42	
	SO2	Annually			86.31	ppm		OTH	168.89	
	SELECT			SELECT		SELECT	SELECT	SELECT		

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

AIR-summary template	Lic No:	W0025-03	Year	2012

Continuous Monitoring

4	Does your site carry out continuous air emissions monitoring?	Yes	Continuous Monitoring carried out at landfill Flare LFGF1. These results were summarised as part of the gas model used to predict gas emissions for the site.
	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	Yes	
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	Yes	
7	Did your site experience any abatement system bypasses? If yes please detail them in table 4 below	N/A	

Table A2: Summary of average emissions -continuous monitoring

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

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

Table A3: Abatement system bypass reporting table

Bypass protocol

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

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

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

AIR-summary template	Lic No:	W0025-03	Year	2012

Solvent use and management on site

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

No	

Table A4: Solvent Management Plan Summary
Total VOC Emission limit value

Solvent regulations — Please refer to linked solvent regulations to complete table 5 and 6

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

Table A5: Solvent Mass Balance summary

	(I) Inputs (kg)	(O) Outputs (kg)						
Solvent	(I) Inputs (kg)	Organic solvent emission in	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g. by-	Solvents destroyed onsite through	Total emission of Solvent to air (kg)
							Total	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0025-03 Year 2012

			Additional information
1	Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If **you do not have** licenced emissions you only need to complete table W1 and or W2 for surface water analysis and visual inspections	Yes	Surface Water Pond Outlet (SWLO)
2	Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections	Yes	No events of contamination occurred

Table W1 Surface water monitoring

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

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

Table W2 Visual inspections-Please only enter details where contamination was observed.

Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
			SELECT		
			SELECT		

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

				Additional information
3	Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below		No	
4	Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box	External /Internal Lab Quality checklist / Assessment of results checklist	Yes	

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

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof Note 2	Licence Compliance criteria	Average 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	Suspended Solids	discrete	quarterly	SELECT	35mg/l	All values < ELV	<5	mg/L	yes	Gravimetric analysis	APHA / AWWA "Standard	APHA Section 2540-D	<166	Averaged quarterly results
SWLO	Water	Ammonia (as N)	discrete	quarterly		0.23		0.023	mg/L		DISCRETE METHODS	Kone UK Standard Method 1981	UK Standard Method 1981	0.76	Averaged quarterly results compared to SI No 278 of 2007
SWLO	Water	Dissolved Oxygen	discrete	quarterly		-		94	mg/L		Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard	APHA Section 4500-0G		Averaged quarterly results
SWLO	Water	Conductivity	discrete	quarterly		2500		751	µS/cm @20oC		Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA Section 2510-B		Averaged quarterly results
SWLO	Water	COD	discrete	quarterly		-		<20	mg/L		Digestion + Spectrophotometry	APHA / AWWA "Standard	APAH Section 5220	<664	Averaged quarterly results
SWLO	Water	Chlorides (as Cl)	discrete	quarterly		250		19	mg/L		DISCRETE METHODS	APHA / AWWA "Standard	APHA Section 4500-CL E	631	Averaged quarterly results
SWLO	Water	pH	discrete	quarterly		6.5-9.5		7.5	pH units		pH Meter (Electrode)	APHA / AWWA "Standard	APHA Section 4500-H+		Averaged quarterly results
SWLO	Water	Temperature	discrete	quarterly		25		11.1	degrees C		Temp probe				Averaged quarterly results
SWLO	Water	BOD	discrete	quarterly		-		<1.0	mg/L		Dissolved Oxygen Meter (Ele	APHA / AWWA "Standard	APHA Sectin 5210	<33	Averaged quarterly results
SWLO	Water	Volumetric Flow						88.75	m3/day						

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

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

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0025-03 Year 2012

Continuous monitoring

		Additional Information
Does your site carry out continuous emissions to water/sewer monitoring?	Yes	Continuous monitoring of pH, conductivity and TOC at inlet and outlet of surface water pond. No ELV set in licence for any parameter other than suspended solids.

If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)

Did continuous monitoring equipment experience downtime? **If yes please record downtime in table W4 below**	No	
Do you have a proactive service contract for each piece of continuous monitoring equipment on site?	Yes	
Did abatement system bypass occur during the reporting year? **If yes please complete table W5 below**	No	

Table W4: Summary of average emissions -continuous monitoring

Emission reference no:	Emission released to	Parameter/ Substance	ELV or trigger values in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission for current reporting year (kg)	% change +/- from previous reporting year	Monitoring Equipment downtime (hours)	Number of ELV exceedences in reporting year	Comments
SWLO	Water	Total Organic Carbon (as C)	N/A	2 minutes	SELECT	mg/L	49.82			N/A	Average concentration = 1.5mg/l
	SELECT	SELECT		SELECT	SELECT	SELECT					

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

Table W5: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

Bund/Pipeline testing template	Lic No:	W0025-03	Year	2012	

Bund testing

dropdown menu click to see options

			Additional information
1	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**	Yes	te Tank (LT), Lined and Covered leachate lagoon (LG)
2	Please provide integrity testing frequency period	3 years	
3	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)	Yes	
4	How many bunds are on site?	2	
5	How many of these bunds have been tested witin the required test schedule?	2	
6	How many mobile bunds are on site?	0	
7	Are the mobile bunds included in the bund test schedule?	N/A	
8	How many of these mobile bunds have been tested witin the required test schedule?	N/A	
9	How many sumps on site are included in the integrity test schedule?	0	
10	How many of these sumps are integrity tested within the test schedule?	N/A	
	Please list any sump integrity failures in table B1		
11	Do all sumps and chambers have high level liquid alarms?	No	
12	If yes to Q11 are these failsafe systems included in a maintenance and testing programme?	N/A	

Table B1: Summary details of bund /containment structure integrity test

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
LT Leachate Tank	reinforced concrete		Leachate	440m3	400m3	Structural assessment		19/10/2010	Yes	Pass		SELECT	2013	
LG Leachate Lagoon	other (please specify)	Lined and covered lagoon	Leachate	1221m3	-	BS8007 Still well and Hook gauge Method		17/11/2010	Yes	Pass		SELECT	2013	

* Capacity required should comply with 25% or 110% containment rule as detailed in your licence

			Commentary
14	Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance?	Yes	
15	Are channels/transfer systems to remote containment systems tested?	N/A	
16	Are channels/transfer systems compliant in both integrity and available volume?	N/A	

bunding and storage guidelines

Pipeline/underground structure testing

1	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**	No	
2	Please provide integrity testing frequency period	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

Groundwater/Soil monitoring template	Lic No:	W0025-03	Year	2012

			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 of unlined cells
7	Please specify the proposed time frame for the remediation strategy	SELECT	completed
8	Is there a licence condition to carry out/update ELRA for the site?	yes	ELRA completed during 2011
9	Has any type of risk assesment been carried out for the site?	yes	
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*	SELECT**	% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
Quarterly 2012	RCA1	Ammonia (as N)		Quarterly	0.1	0.06	mg/l	0.175			SELECT
	RCA1	Chloride		Quarterly	19	18.67	mg/l	187.5			
	RCA1	Dissolved Oxygen		Quarterly	74	71	% Saturation				
	RCA1	Conductivity		Quarterly	805	780	uS/cm	1,875			
	RCA1	pH		Quarterly	7.2	7.2	pH units				
	RCA1	Temp		Quarterly	12.7	11.5	oC				
	RCA1	TOC		Quarterly	1.9	1.9	mg/l				
	RCA1	boron		Annual	22		ug/l	750			
	RCA1	Cadmium		Annual	3.4		ug/l	3.75			
	RCA1	Calcium		Annual	4,100		mg/l				
	RCA1	Total Chromium		Annual	11		ug/l	37.5			
	RCA1	Copper		Annual	1.8		ug/l	1,500			
	RCA1	Iron		Annual	200		ug/l				
	RCA1	Lead		Annual	<0.5		ug/l	18.75			
	RCA1	Magnesium		Annual	24		mg/l				
	RCA1	Manganese		Annual	5,200		ug/l				
	RCA1	Nickel		Annual	83		ug/l	15			
	RCA1	Potassium		Annual	3.3		mg/l				

Groundwater/Soil monitoring template			Lic No:	W0025-03		Year	2012			
	RCA1	Sodium		Annual	7.4		mg/l	150			
	RCA1	Zinc		Annual	<3		ug/l				
	RCA1	Fluoride		Annual	<0.25		mg/l				
	RCA1	Mercury		Annual	<0.5		ug/l	0.75			
	RCA1	Sulphate		Annual	58		mg/l	187.5			
	RCA1	Total Alkalinity		Annual	347		mg/l				
	RCA1	Total Orthophosphate		Annual	0.01		mg/l				
	RCA1	TON		Annual	8.74		mg/l				
	RCA1	VOC		Annual	none detected		ug/l				SELECT

.+ where average indicates arithmetic mean

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

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	% change in average concentration previous year +/-	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
Quarterly 2012	GW8	Ammonia (as N)		Quarterly	0.38	0.287	mg/l	0.175			SELECT
	GW8	Chloride		Quarterly	23	22.25	mg/l	187.5			
	GW8	Dissolved Oxygen		Quarterly	23	18.5	% Saturation				
	GW8	Conductivity		Quarterly	750	742.5	uS/cm	1,875			
	GW8	pH		Quarterly	7.2	7.1	pH units				
	GW8	Temp		Quarterly	12	11.6	oC				
	GW8	TOC		Quarterly	67.1		mg/l				
	GW8	boron		Annual	85		ug/l	750			
	GW8	Cadmium		Annual	<0.5		ug/l	3.75			
	GW8	Calcium		Annual	120		mg/l				
	GW8	Total Chromium		Annual	1.1		ug/l	37.5			
	GW8	Copper		Annual	1.1		ug/l	1,500			
	GW8	Iron		Annual	220		ug/l				
	GW8	Lead		Annual	<0.5		ug/l	18.75			
	GW8	Magnesium		Annual	13		mg/l				
	GW8	Manganese		Annual	<25		ug/l				
	GW8	Nickel		Annual	2.4		ug/l	15			
	GW8	Potassium		Annual	4		mg/l				
	GW8	Sodium		Annual	10		mg/l	150			
	GW8	Zinc		Annual	<3		ug/l				
	GW8	Fluoride		Annual	<0.25		mg/l				
	GW8	Mercury		Annual	<0.5		ug/l	0.75			
	GW8	Sulphate		Annual	38		mg/l	187.5			
	GW8	Total Alkalinity		Annual	307		mg/l				

Groundwater/Soil monitoring template				Lic No:	W0025-03		Year	2012			
	GW8	Total Orthophosphate		Annual	0.02		mg/l				
	GW8	TON		Annual	9.74		mg/l				
							SELECT				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 GTV's | Drinking water (private supply) standards | Drinking water (public supply) standards | Interim Guideline Values (IGV)

Groundwater/Soil monitoring template	Lic No:	W0025-03	Year	2012

Table 3: Soil results

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

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

Environmental Liabilities template	Lic No:	W0025-03	Year	2012

Click here to access EPA guidance on Environmental Liabilities and Financial provision

			Commentary
1	ELRA initial agreement status	Submitted and agreed by EPA	submitted 2011
2	ELRA review status	SELECT	review required 2014
3	Amount of Financial Provision cover required as determined by the latest ELRA	4,673,901	
4	Financial Provision for ELRA status	SELECT	Carlow County Council, as a local authority, has made the necessary provisions, for the development,
5	Financial Provision for ELRA - amount of cover	Specify	management, restoration and aftercare of Powerstown Waste Management Facility. Carlow County Council
6	Financial Provision for ELRA - type	SELECT	is committed to the ongoing provision of funding for all site development works, environmental monitoring
7	Financial provision for ELRA expiry date	Enter expiry date	costs and restoration and aftercare works at Powerstown Landfill for the duration of the waste licence.
8	Closure plan initial agreement status	losure plan submitted and agreed by EP	submitted 2011
9	Closure plan review status	SELECT	review required 2014
10	Financial Provision for Closure status	SELECT	Carlow County Council, as a local authority, has made the necessary provisions, for the development,
11	Financial Provision for Closure - amount of cover	Specify	management, restoration and aftercare of Powerstown Waste Management Facility. Carlow County Council
12	Financial Provision for Closure - type	SELECT	is committed to the ongoing provision of funding for all site development works, environmental monitoring
13	Financial provision for Closure expiry date	Enter expiry date	costs and restoration and aftercare works at Powerstown Landfill for the duration of the waste licence.

Environmental Management Programme/Continuous Improvement Programme template

Lic No: W0025-03 Year 2012

Highlighted cells contain dropdown menu click to view

			Additional Information
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes	most recent document dated 3-4-2012
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	0	to be completed April 2013	Section Head	SELECT
Reduction of emissions to Air	refine gas generation model	100	completed march 2013	Section Head	
Reduction of emissions to Air	inspect all collection wellheads	100	completed 2012	Section Head	
Reduction of emissions to Air	temporary cap to cells 15-16	100	completed 2012	Section Head	
Reduction of emissions to Water	carry out risk assessment groundwater	70	to be completed may 2013	Section Head	
Reduction of emissions to Water	three new groundwater boreholes	100	completed 2012	Section Head	
Reduction of emissions to Wastewater	investigate leachate treatment	100	completed 2012	Section Head	
Additional improvements	complete EIS	100	completed 2012	Section Head	
SELECT		SELECT		SELECT	SELECT
SELECT		SELECT		SELECT	SELECT

Noise monitoring summary report	Lic No:	W0025-03	Year	2012

1 Was noise monitoring a licence requirement for the AER period? If yes please fill in table N1 noise summary below		Yes
2 Was noise monitoring carried out using the EPA Guidance note including completion of the "Checklist for noise measurement report" included in the guidance note as table 6?	Noise Guidance note NG4	Yes
3 Does your site have a noise reduction plan		No
4 When was the noise reduction plan last updated?		
5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?		No

Table N1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA_{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)?
29/11/2012 and 30/11/2012	30 min	N4		54	45	54	75	No	SELECT	Passing and distant off site traffic noise	SELECT
	30 min		N5	61	39	50	82	No		Passing and distant traffic. Vehicles entering and exiting landfill.	No
	30 min		N6	49	31	42	69	No		General rural environment	Yes
	30 min		S1	68	53	71	80	No		Passing Traffic	No
	30 min		S2	50	45	50	64	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? SELECT

** please explain the reason for not taking action/resolution of noise issues?
Daytime noise limit of 55dBA was exceeded at 2 NSL (N5 and S1). Observations recorded at the time of the survey indicate that passing traffic was the dominant noise source at both locations and landfill activities were not audible. It is considered that Powerstown Landfill did not contribute to the noise

Resource Usage/Energy efficiency summary

Lic No: W0025-03 Year 2012

			Additional information
1	When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below	2006	
2	Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information	SEAI - Large Industry Energy Network (LIEN)	
3	Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information	no	
		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 (MWHrs)				
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	82.469	86.329		
Fossil Fuels Consumption:	0	0		
Heavy Fuel Oil (m3)	0	0		
Light Fuel Oil (m3)		55		
Natural gas (CMN)	0	0		
Coal/Solid fuel (metric tonnes)	0	0		
Peat (metric tonnes)	0	0		
Renewable Biomass	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

Table R2 Water usage on site

					Water Emissions	Water Consumption	
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Volume Discharged back to environment(m^3yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	101	326					
Recycled water							
Total							

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

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

Table R3 Waste Stream Summary

	Total	Landfill	Incineration	Recycled	Other (Waste Transfer)
Hazardous (Tonnes)	33	0	0	33	0
Non-Hazardous (Tonnes)	9878.71	5664.68	0	1229.33	2984.7

Resource Usage/Energy efficiency summary

Lic No: W0025-03 Year 2012

Table R4: Energy Audit finding recommendations

Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
2006	Install timers on leachate pumps	use off-peak pumping	energy audit		Timers are not an option due to EPA requirements re	Landfill Manager		
2006	install scada system to track power usage	reduce power	energy audit		2007	Landfill Manager	2007	scada system operational
			SELECT					

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

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

Complaints and Incidents summary template

Lic No: W0025-03 Year 2012

Complaints

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	Additional information

Table 1 Complaints summary

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		

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

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	What is an incident

Table 2 Incidents summary

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	Liklihood of reoccurence
26/03/2012	Other(Flare Shutdown)	Licenced discharge point (LF(	1. Minor	Air	Other (add details	Flare shut down du	Normal activities	EPA	New	allow gas to re-genera	None	Complete	27/03/2012	Low
27/03/2012	Breach of ELV	Boundary Gas Wells G7, G27	1. Minor	Air	Other (add details)		Normal activities	EPA	Recurring		continue to op	Complete	27/03/2012	Medium
30/01/2012	Breach of ELV	Boundary Gas Wells TP15, G(	1. Minor	Air	Other (add details)		Normal activities	EPA	Recurring		continue to op	Complete	30/01/2012	Medium
28/02/2012	Breach of ELV	Boundary Gas Wells TP13, G2	1. Minor	Air	Other (add details)		Normal activities	EPA	Recurring		continue to op	Complete	28/02/2012	Medium
26/04/2012	Breach of ELV	Boundary Gas Wells	1. Minor	Air	Other (add details)		Normal activities	EPA	Recurring		continue to op	Complete	26/04/2012	Medium
17/05/2012	Breach of ELV	Boundary Gas Wells	1. Minor	Air	Other (add details)		Normal activities	EPA	Recurring		continue to op	Complete	17/05/2012	Medium
19/05/2012	Other(Flare Shutdown)	Licenced discharge point (LF(	1. Minor	Air	Other (add details	Low CH4	Normal activities	EPA	New	allow gas to re-genera	None	Complete	21/05/2012	Low
18/06/2012	Monitoring equipment offline	SCADA	1. Minor	No Uncontrolled release	Plant or equipmer	ESB power surge ca	Normal activities	EPA	New	Purchase new equipm	None	Complete	01/07/2012	Low
Q1 2012	Trigger level reached	Groundwater Well GW1	1. Minor	No Uncontrolled release	Other (add details)		Normal activities	EPA	Recurring	carry out further inves	None			High
08/06/2012	Breach of ELV	Boundary Gas wells	1. Minor	Air	Other (add details)		Normal activities	EPA	Recurring		continue to op	Complete	08/06/2012	Medium
26/07/2012	Breach of ELV	Boundary Gas Wells	1. Minor	Air	Other (add details)		Normal activities	EPA	Recurring		continue to op	Complete	26/07/2012	Medium
14/08/2012	Breach of ELV	Boundary Gas Wells	1. Minor	Air	Other (add details)		Normal activities	EPA	Recurring		continue to op	Complete	14/08/2012	Medium
04/09/2012	Breach of ELV	Boundary gas wells	1. Minor	Air	Other (add details)		Normal activities	EPA	Recurring		continue to op	Complete	04/09/2012	Medium
Q2 2012	Trigger level reached	Groundwater Well GW1, GW	1. Minor	No Uncontrolled release	Other (add details)		Normal activities	EPA	Recurring	carry out further inves	None			High
Q4 2012	Breach of ELV	Boundary Gas Wells	1. Minor	Air	Other (add details)		Normal activities		Recurring		continue to op	Complete		Medium
Q3 2012	Trigger level reached	Groundwater Well GW1	1. Minor	No Uncontrolled release	Other (add details)		Normal activities	EPA	Recurring	carry out further inves	None	Complete		High
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT

Total number of incidents current year	16
Total number of incidents previous year	24
% reduction/ increase	-33%

WASTE SUMMARY	Lic No:	W0025-03	Year	2012
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES	PRTR facility logon	dropdown list click to see options		

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

			Additional Information
1	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	Yes	Powerstown Landfill operated as a waste transfer station from 25/01/2012 to 05/09/2012. The waste accepted during this period was removed from the site by Ray Whelan Ltd W0158-01. This waste amounted to 2984.7 tonnes.
2	Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information	No	
3	Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information	No	

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

Licenced annual tonnage limit for your site (total tonnes/annum)	EWC code European Waste Catalogue EWC codes	Source of waste accepted	Description of waste accepted **Please enter an accurate and detailed description which applies to** European Waste Catalogue EWC codes	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 -
	200399, 200301, 200307, 200303, 200201, 190899, 190902, 190802		*mixed waste, separately collected*	*2984.7*					*D15-Storage pending*	*0*	*This waste was accepted at the site while landfilling activities were suspended. A detatiled breakdown of these waste types and tonnages is reported in the PRTR for Powerstown Landfill*
	170504	*Council clean up*	*Clay*	*2217*					*R13-Storage of waste*	*0*	
	190501	*O Toole Composting*	*Compost*	*103.44*					*R13-Storage of waste*	*0*	
	170101	*Council clean up*	*Rubble*	*854.34*					*R13-Storage of waste*	*0*	
	200202	*Council clean up*	*Soil and stones*	*152.72*					*R13-Storage of waste*	*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	Yes	
5	Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site	SELECT	
6	Does your facility have relevant nuisance controls in place?	Yes	
7	Do you have an odour management system in place for your facility? If no why?	Yes	
8	Do you maintain a sludge register on site?	Yes	
		No	

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
Household (residual)	30,000	2,006		
Commercial	7,000	2,739		
Industrial non hazardous solids	1,500	659	155,000approx	
Treated Sewage Sludge	500	261		Treated Sludge, Alum sludge
C&D	1,000	0		

WASTE SUMMARY	Lic No:	W0025-03	Year	2012

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	Dec-12	No	Public	Non Hazardous		No	No	No	99,000m.sq	59,000m sq	40,000 m. sq	Cell 7-13 composite liner (HDPE, 1m clay)
Cell 17	Jan-13	N/A	Yes	Public	Non Hazardous	2016	No	No	No				Cell 15-18 composite (HDPE, 0.5

Table 4 Environmental monitoring-landfill onl Landfill Manual-Monitoring Standards

Was meterological monitoring in compliance with Landfill Directive (LD) standard in reporting year +	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments
No	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					
17,000m2	16,000m2	84,000m2		84,000	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
13414	371	11724	7525	18078	No	WWTP	

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
504,002	0	N/A	Yes	

Environmental Protection Agency

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.15

REFERENCE YEAR	2012

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).
3.13	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.
3.4	Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.
3.6	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.
3.7	##
4.11	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
4.13	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.
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
4.9	Use of any waste principally as a fuel or other means to generate energy.

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
AER Returns Contact Name	Fergus Mulhare
AER Returns Contact Email Address	fmulhare@carlowcoco.ie
AER Returns Contact Position	Landfill Manager
AER Returns Contact Telephone Number	0599172478

AER Returns Contact Mobile Phone Number	0876551825
AER Returns Contact Fax Number	0599146356
Production Volume	9911.71
Production Volume Units	Tonnes
Number of Installations	1
Number of Operating Hours in Year	1378
Number of Employees	7
User Feedback/Comments	Powerstown Landfill operated as a waste transfer station during the period 25/01/12 to 05/09/12. No waste was landfilled during this period. All waste accepted during this period was transported from the site to Ray Whelan Ltd. (W0158-01).
Web Address	

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 ?	
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

4. WASTE IMPORTED/ACCEPTED ONTO SITE

Guidance on waste imported/accepted onto site

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	

4.1 RELEASES TO AIR

Link to previous years emissions data

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD				QUANTITY		
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
01	Methane (CH4)	C	MAB	as below	0.0	832600.0	0.0	832600.0
02	Carbon monoxide (CO)	M	PER	Flue gas analyser, Testo 350/454 MXL	7.78	7.78	0.0	0.0
08	Nitrogen oxides (NOx/NO2)	M	PER	Flue gas analyser, Testo 350/454 MXL	95.9	95.9	0.0	0.0
11	Sulphur oxides (SOx/SO2)	M	PER	Flue gas analyser, Testo 350/454 MXL	168.89	168.89	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 AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD				QUANTITY		
			Method Used					
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
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	4.77	4.77	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	1.42	1.42	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 AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD				QUANTITY		
			Method Used					
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
351	**Total Organic Carbon (as C)**	M	PER	FID na non-methane hydrocarbon cutter	9.97	9.97	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

	T (Total) kg/Year	M/C/E	Method Used: Method Code	Method Used: Designation or Description	Facility Total Capacity m3 per hour	
Total estimated methane generation (as per site model)	1177673.0	E	MAB	Calibrated landgem model	N/A	
Methane flared	345073.0	M	MAB	Measured at flare	500.0	(Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section A above)	832600.0	C	MAB	calculated from prediction m	N/A	

4.2 RELEASES TO WATERS

Link to previous years emissions data

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 conc

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT					QUANTITY			
			Method Used		SWLO			
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
79	Chlorides (as Cl)	M	ALT	APHA Section 4500-Cl E	631.0	631.0	0.0	0.0
22	Nickel and compounds (as Ni)	M	ALT	APHA section 3125	0.63	0.63	0.0	0.0
17	Arsenic and compounds (as As)	M	ALT	APHA Section 3125	0.03	0.03	0.0	0.0
19	Chromium and compounds (as Cr)	M	ALT	APHA Section 3125	0.03	0.03	0.0	0.0
20	Copper and compounds (as Cu)	M	ALT	APHA Section 3125	0.02	0.02	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			
POLLUTANT					QUANTITY			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

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

RELEASES TO WATERS					Please enter all quantities in this section in KGs				
POLLUTANT					QUANTITY				
			Method Used		SWLO				
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	Emission Point 2	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
238	Ammonia (as N)	M	ALT	UK Standard Method 1981	0.76	0.0	0.76	0.0	0.0
205	Antimony (as Sb)	M	ALT	APHA Section 3125	33.21	0.0	33.21	0.0	0.0
373	Barium	M	ALT	APHA Section 3125	0.99	0.0	0.99	0.0	0.0
374	Boron	M	ALT	APHA Section 3125	2.72	0.0	2.72	0.0	0.0
305	Calcium	M	ALT	APHA Section 3125	3985.4	0.0	3985.4	0.0	0.0
320	Magnesium	M	ALT	APHA Section 3125	0.33	0.0	0.33	0.0	0.0
338	Potassium	M	ALT	APHA Section 3125	0.07	0.0	0.07	0.0	0.0
370	Selenium	M	ALT	APHA Section 3125	0.04	0.0	0.04	0.0	0.0
341	Sodium	M	ALT	APHA Section 3125	0.26	0.0	0.26	0.0	0.0
351	**Total Organic Carbon (as C)**	M	ALT	Ntron TOC Analyser	49.82	0.0	49.82	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			
			Method Used					
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			
			Method Used					
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

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND					Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
			Method Used				
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		
			Method Used				
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

Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	13 02 05	Yes	7.3	mineral-based non-chlorinated engine, gear and lubricating oils	R13	M	Weighed	Offsite in Ireland	ENVA Ireland,W0181-01	-,-,Portlaoise,Co. Laois,Ireland	ENVA Ireland,W0181-01	-,-,Portlaoise,Co. Laois,Ireland
Within the Country	16 01 07	Yes	0.88	oil filters	R13	M	Weighed	Offsite in Ireland	ENVA Ireland,W0181-01	-,-,Portlaoise,Co. Laois,Ireland	R.D. Recycling,51727-1-KD,Houthalen,.,.,.,Belgium	Houthalen,.,.,.,Belgium
Within the Country	15 01 02	No	62.42	plastic packaging (bottles & wrapping)	R13	M	Weighed	Offsite in Ireland	Greenstar,WFP -KK-09-0003-01	-,-,-,Kilkenny,Ireland		
Within the Country	15 01 02	No	1.36	plastic packaging (polystyrene)	R13	M	Weighed	Offsite in Ireland	Danelle Recycling,WP01/08	-,-,-,-,Ireland		
Within the Country	20 01 38	No	187.6	wood other than that mentioned in 20 01 37	R13	M	Weighed	Offsite in Ireland	Greenstar,WFP -KK-09-0003-01	-,-,-,Kilkenny,Ireland		
Within the Country	20 01 35	Yes	209.76	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and and 20 01 23 containing hazardous components	R13	M	Weighed	Offsite in Ireland	Ratcliffe Recycling Ltd,WCP-DC-08-1130-01	Ballystahan ,St. Margarets ,Dublin,.,Ireland	Ratcliffe Recycling,WCP-DC-08-1130-01,Ballystahan,St. Margarets,Dublin,.,Ireland	.,.,.,.,Ireland
Within the Country	15 01 04	No	1.76	metallic packaging (steel cans)	R13	M	Weighed	Offsite in Ireland	Danelle Recycling,WP01/08	-,-,-,-,Ireland		
Within the Country	15 01 05	No	6.98	composite packaging (Tetrapak)	R13	M	Weighed	Offsite in Ireland	Greenstar,WFP -KK-09-0003-01	-,-,-,Kilkenny,Ireland		
Within the Country	15 01 07	No	68.94	glass packaging	R13	M	Weighed	Offsite in Ireland	Rehab Glasco Ltd.,WFP-KE-08-0357-01	-,-,Naas,Co. Kildare,Ireland		
Within the Country	16 01 03	No	3.46	end-of-life tyres	R13	M	Weighed	Offsite in Ireland	Laois Tyre Recycling,WCP-OY-10-636-01	-,-,Mountmellick,Co Laois,Ireland		
Within the Country	16 06 01	Yes	8.64	lead batteries	R13	M	Weighed	Offsite in Ireland	ENVA Ireland,W0181-01	-,-,Portlaoise,Co. Laois,Ireland	Campine Recycling Ltd,MLAV /05,Campine Recycling Ltd,173/GVDA,Beerse,.,Belgium	Campine Recycling Ltd,173/GVDA,Beerse,.,Belarus
Within the Country	16 06 04	No	0.58	alkaline batteries (except 16 06 03)	R13	M	Weighed	Offsite in Ireland	The Recycling Village,WFP-LH-10-0010-01	-,-,-,Co. Louth,Ireland		
Within the Country	17 08 02	No	11.92	gypsum-based construction materials other than those mentioned in 17 08 01	R13	M	Weighed	Offsite in Ireland	Greenstar,WFP -KK-09-0003-01	-,-,-,Kilkenny,Ireland		
Within the Country	19 07 03	No	13414.12	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	Mortarstown Waste Water Treatment Plant, D-0028	Carlow,.,.,.,Ireland		
Within the Country	20 01 01	No	215.44	paper and cardboard	R13	M	Weighed	Offsite in Ireland	Greenstar,WFP -KK-09-0003-01	-,-,-,Kilkenny,Ireland		
Within the Country	20 01 02	No	35.78	flat glass	R13	M	Weighed	Offsite in Ireland	Greenstar,WFP -KK-09-0003-01	-,-,-,Kilkenny,Ireland		
Within the Country	20 01 08	No	30.74	biodegradable kitchen and canteen waste	R13	M	Weighed	Offsite in Ireland	O'Toole Composting,WFP-CW-10-0003-01	Balintrane,Fenagh,Co. Carlow,-,Ireland		
Within the Country	20 01 11	No	8.21	textiles	R13	M	Weighed	Offsite in Ireland	Mrs Quinns Charity Shop,-	-,-,-,-,Ireland		
Within the Country	20 01 25	No	0.5	edible oil and fat	R13	M	Weighed	Offsite in Ireland	Pure Oil,KK/288/05	-,-,Barntown,Co. Wexford,Ireland		
Within the Country	20 01 40	No	102.36	metals	R13	M	Weighed	Offsite in Ireland	Greenstar,WFP -KK-09-0003-01	-,-,-,Kilkenny,Ireland		
Within the Country	20 02 01	No	281.46	biodegradable waste	R13	M	Weighed	Offsite in Ireland	Greenstar,WFP -KK-09-0003-01	-,-,-,Kilkenny,Ireland		
Within the Country	20 01 27	Yes	15.42	paint, inks, adhesives and resins containing dangerous substances	R13	M	Weighed	Offsite in Ireland	ENVA Ireland,W0181-01	-,-,Portlaoise,Co. Laois,Ireland	Nehlsen,D33300040,Braemen,.,.,.,Germany	Braemen,.,.,.,Germany
Within the Country	**20 01 21**	**Yes**	0.76	fluorescent tubes and other mercury-containing waste	R13	M	Weighed	Offsite in Ireland	KMK Metals,W0113-01	-,-,Tullamore,Co. Offaly,Ireland	KMK Metals,W0113-01	-,-,Tullamore,Co. Offaly,Ireland
Within the Country	20 01 36	No	0.2	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R13	M	Weighed	Offsite in Ireland	Irish Lamp Recycling ,WFP-KE-08-0348-01	-,-,-,-,Ireland		
Within the Country	20 03 99	No	464.14	municipal wastes not otherwise specified	D15	M	Weighed	Offsite in Ireland	Ray Whelan Ltd,W0158-01	Cappanaboe,Co Laois,.,.,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/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	20 03 01	No	1536.5	mixed municipal waste	D15	M	Weighed	Offsite in Ireland	Ray Whelan Ltd,W0158-01	Cappanaboe,Co Laois,,,,Ireland		
Within the Country	20 03 99	No	11.9	municipal wastes not otherwise specified	D15	M	Weighed	Offsite in Ireland	Ray Whelan Ltd,W0158-01	Cappanaboe,Co Laois,,,,Ireland		
Within the Country	20 03 07	No	32.9	bulky waste	D15	M	Weighed	Offsite in Ireland	Ray Whelan Ltd,W0158-01	Cappanaboe,Co Laois,,,,Ireland		
Within the Country	20 03 03	No	365.58	street-cleaning residues	D15	M	Weighed	Offsite in Ireland	Ray Whelan Ltd,W0158-01	Cappanaboe,Co Laois,,,,Ireland		
Within the Country	20 02 01	No	150.64	biodegradable waste	D15	M	Weighed	Offsite in Ireland	Ray Whelan Ltd,W0158-01	Cappanaboe,Co Laois,,,,Ireland		
Within the Country	19 08 99	No	3.52	wastes not otherwise specified (drain cleaning)	D15	M	Weighed	Offsite in Ireland	Ray Whelan Ltd,W0158-01	Cappanaboe,Co Laois,,,,Ireland		
Within the Country	19 09 02	No	411.34	sludges from water clarification	D15	M	Weighed	Offsite in Ireland	Ray Whelan Ltd,W0158-01	Cappanaboe,Co Laois,,,,Ireland		
Within the Country	19 08 02	No	8.18	waste from desanding	D15	M	Weighed	Offsite in Ireland	Ray Whelan Ltd,W0158-01	Cappanaboe,Co Laois,,,,Ireland		

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