Facility Information	Summary	
AER Reporting Year	2015	
Licence Register Number	W0025-04	
Name of site	Powerstown Landfill	
Site Location	Powerstown, County 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.

Activities consisted of the landfilling of munical waste (56652 tonnes) and the operation of a civic amenity site (1015 tonnes)

No major infrastructure changes occurred during the reporting year

Environmental performance is summarised as follows:

Air: flare emissions in compliance Noise: emissions in compliance

Goundwater: elevated downgradient ammonia, no trigger levels exceeded.

Surface water: one SS exceedance Q3
Leachate: no applicable ELV's

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 Date
Group/Facility manager
(or nominated, suitably qualified and experienced deputy)

	AIR-summary template	Lic No:	W0025-04	Year	2015	
-	Answer all questions and complete all tables where relevant					
1	Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If you do not have licenced emissions and do not complete a solvent management plan (table A4 and A5) you do not need to complete the tables	Yes	Additio	nal information LFGF1		
	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 monitoring note AG2 and using the basic air monitoring checklist? Massall monitoring checklist? 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		Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass	Comments -reason for change in % mass load from previous year if applicable
	Nitrogen oxides			No 30min mean can exceed	55.7					
LFGF1	(NOx/NO2)	annual	150	the ELV		mg/Nm3	SELECT	ОТН	153.7	no significant change
LFGF1	Carbon monoxide (CO)	annual		SELECT	3.17	mg/Nm3	SELECT	ОТН	8.8	
LFGF1	Sulphur oxides (SOx/SO2)	annual		SELECT	383	mg/Nm3	SELECT	ОТН	1059	
LFGF1	Volatile organic compounds (as TOC)	annual			3.7	mg/Nm3		отн	10.2	
	Chlorine and inorganic				2.08					
LFGF1	compounds (as HCI)	annual				mg/Nm3		ОТН	5.7	
	Fluorine and inorganic				4.64					
LFGF1	compounds (as HF)	annual				mg/Nm3		OTH	12.8	
LFGf1	SELECT	annual		SELECT		SELECT	SELECT	SELECT		

Α	IR-summary	template				Lic No:	W0025-04		Year	2015	j	
		Continuous N	Monitoring									
4	oes your site car	ry out continuous air emis	sions monitoring?			SELECT	for temperature, fl for these parame	coring carried out at l low, CH4, CO2, CO, O ters. The results wer nto the landfill gas su	2. There are no ELV e summarised and			
-	f yes please revie		oring data and report t relevant Emission Lim		elow in Table A2 and compare					-		
5 D	id continuous mo	onitoring equipment exper	ience downtime? If ye	s please record dow	ntime in table A2 below	Yes						
6 D	o you have a proa	active service agreement fo	or each piece of contin	uous monitoring ed	quipment?	Yes						
7	Did your s	site experience any abatem	nent system bypasses?	If yes please detail	them in table A3 below	SELECT		NA				
Т	able A2: Sum	mary of average em	issions -continuo	us monitoring								
	mission eference no:	Parameter/ Substance	ELV in licence or	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments	
			any revision therof									
L		SELECT			SELECT	SELECT						
		SELECT				SELECT]

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

SELECT SELECT

SELECT

SELECT

Table A3: Abatement system bypass reporting table

Bypass protocol

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

SELECT

SELECT

SELECT

^{*} 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:	W0025-04		Year	2015
Solvent	t use and manageme	nt on site							
Do you have a tota	al Emission Limit Value of d	irect and fugitive emis	ssions on site? if yes	please fill out tables A4 and A5					
Table A4: Solve	ent Management Pla	in Summary	Solvent	1	No				
	ssion limit value	Julianian y	regulations	Please refer to linked solven complete table 5					
Reporting year	Total solvent input on	Total VOC	Total VOC		Compliance				
1077	site (kg)	emissions to Air	emissions as %of		,				
		from entire site (direct and fugitive)		Total Emission Limit Value (ELV) in licence or any revision					
				therof					
					SELECT				
Table Ac	Calarat Mara Balan				SELECT				
Table A5:	Solvent Mass Baland	ce summary							1
	(I) Inputs (kg)			(0)	Outputs (kg)				
Solvent		Organic solvent	Solvents lost in	Collected waste solvent (kg)	Fugitive Organic	Solvent released	Solvents destroyed	Total emission of	
	(I) Inputs (kg)	emission in waste	water (kg)		Solvent (kg)	in other ways e.g.	onsite through	Solvent to air (kg)	
							Total		

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

Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If you do not have licensed emissions you up/n peed to complete table W1 and or W2 for storm water analysis and visual inspections

Was it a requirement of your licence to carry out visual inspections on any surface water 2 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

Table W1 Storm water monitoring

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

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

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

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

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

3	Was there any result in breach of licence requirements? If y	es please provide br	ief details in the		
-	comment section of Table W3	below		No	Additional information
	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		
4	require improvement in additional information box	checklist	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 theref ^{Note 2}	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference	Annual mass load (kg) Comments
SWLO	Water	volumetric flow	SELECT	continuous	every 2 mins	the of	SELECT	modernou value	m3/day	SELECT	SELECT	SELECT	Standard Hamber	(ng)
SWLO	Water	Ammonia (as N)	discrete	quarterly		0.065		0.035	mg/L	yes	DISCRETE METHODS	UK Standard method 1981	EPA Method W07	Averaged quarterly results
SWLO	Water	Dissolved Oxygen	discrete	quarterly		-		90.675	% Sat		Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA Section 4500-0 G	Averaged quarterly results.
SWLO	Water	Conductivity	discrete	quarterly		2500		672.5	μS/cm@25oC	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA Section 2510-B	Averaged quarterly results.
SWLO	Water	COD	discrete	quarterly				20	mg/L		Digestion + Spectrophotometry	ISO 15705:2002	EPA Method W01	Averaged quarterly results.
SWLO	Water	Chlorides (as Cl)	discrete	quarterly		250		20.25	mg/L	yes	DISCRETE METHODS	US EPA	EPA Method W07	Averaged quarterly results.
SWLO	Water	рН	discrete	quarterly		6.5 - 9.5		7.5	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA Section 4500 H+	Averaged quarterly results.
SWLO	Water	Suspended Solids	discrete	quarterly		35	<35 ELV	34.5	mg/L	see comments	Gravimetric analysis	ISEN 872:2005	EPA Method W03	Averaged quarterly results. Q3 value exceeded ELV (97)
SWLO	Water	Temperature	discrete	quarterly		25		11.5	degrees C	yes	Thermometry			Averaged quarterly results.
SWLO	Water	BOD	discrete	quarterly				<2.0						Averaged quarterly results.
SWLO	Water	Orthophosphate (P)	discrete	annually		0.035		0.01	mg/l		DISCRETE METHODS	US EPA	EPA W07	annual results
SWLO	Water	Sulphate	discrete	annually		250		39	mg/L	yes	Ion Chromatography	APHA / AWWA "Standard Methods"	J01	annual results
SWLO	Water	Alkalinity	discrete	annually				279	mg/L		DISCRETE METHODS	APHA / AWWA "Standard Methods"	APHA Section 2320B	annual results
SWLO	Water	Boron	discrete	annually		1000		0.02	μg/L	yes	ICP / ICPMS (Inductively Coupled Plasma - Mass Spectrometry)	B.S. (British Standard)	EPA W05	annual results
SWLO	Water	Cadmium and compounds (as Cd)	discrete	annually		5		<0.2	μg/L	yes	ICP / ICPMS (Inductively Coupled Plasma - Mass Spectrometry)	B.S. (British Standard)	EPA W05	annual results
SWLO	Water	Calcium	discrete	annually				94	mg/L		ICP / ICPMS (Inductively Coupled Plasma - Mass Spectrometry)	B.S. (British Standard)	EPA W05	annual results
SWLO	Water	Copper	discrete	annually		2000		1	μg/L	yes	ICP / ICPMS (Inductively Coupled Plasma - Mass Spectrometry)	B.S. (British Standard)	EPA W05	annual results
SWLO	Water	Iron	discrete	annually		200		10	μg/L	yes	ICP / ICPMS (Inductively Coupled Plasma - Mass Spectrometry)	B.S. (British Standard)	EPA W05	annual results
SWLO	Water	lead	discrete	annually		10		1	μg/L	yes	ICP / ICPMS (Inductively Coupled Plasma - Mass Spectrometry)	B.S. (British Standard)	EPA W05	annual results
SWLO	Water	Magnesium	discrete	annually				13	mg/l		ICP / ICPMS (Inductively Coupled Plasma - Mass Spectrometry)	B.S. (British Standard)	EPA W05	annual results
SWLO	Water	manganese	discrete	annually		50		5	μg/L	yes	ICP / ICPMS (Inductively Coupled Plasma - Mass Spectrometry)	B.S. (British Standard)	EPA W05	annual results

AER Monitor	ring returns su	ımmary template-W	ATER/WASTEW	ATER(SEWER)	Lic No:	W0025-04		Year	2015	5			
SWLO	Water	Mercury	discrete	annually	1		0.5	μg/L	yes	ICP / ICPMS (Inductively Coupled Plasma - Mass Spectrometry)	B.S. (British Standard)	EPA W05	annual results
SWLO	Water	Nickel	discrete	annually	20		1	μg/L	yes	ICP / ICPMS (Inductively Coupled Plasma - Mass Spectrometry)	B.S. (British Standard)	EPA W05	annual results
SWLO	Water	Potassium	discrete	annually			1.7	mg/L		ICP / ICPMS (Inductively Coupled Plasma - Mass Spectrometry)	B.S. (British Standard)	EPA W05	annual results
SWLO	Water	Sodium	discrete	annually	200		8.9	mg/L	yes	ICP / ICPMS (Inductively Coupled Plasma - Mass Spectrometry)	B.S. (British Standard)	EPA W05	annual results
SWLO	Water	Zinc	discrete	annually			13	μg/L		ICP / ICPMS (Inductively Coupled Plasma - Mass Spectrometry)	B.S. (British Standard)	EPA W05	annual results

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

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AER Monitoring returns summary template-WATER/WASTEWATER(SEWER	.) Li	c No:	W0025-04	Ye	ear	2015
Continuous monitoring			Additional Inform	ation		
Does your site carry out continuous emissions to water/sewer monitoring?		surface water po	ond as per licence req	ied out at the inlet to the uirements but not at the tin the licence for TOC.		
If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)						
6 Did continuous monitoring equipment experience downtime? If yes please record downtime in table W4 below	No					
7 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	N/A					

Table W4: Summary of average emissions -continuous monitoring

			ELV or trigger values in licence					% change +/- from previous reporting	Monitoring	Number of ELV	
Emission	Emission			Averaging	Compliance					exceedences in	
reference no:							(kg)		downtime (hours)		Comments
	SELECT	SELECT		SELECT	SELECT	SELECT					
	SELECT	SELECT		SELECT	SELECT	SELECT					

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

Table W5: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

Bund/Pipeline tes	ting template				Lic No:	W0025-04		Year	2015	5				
Bund testing	1	dropdown menu cli	ck to see options				Additional information							
Are you required by you	ur licence to undertake i	ntegrity testing on bunds and con	tainment structures ? if yes p	lease fill out table B1 below	w listing all new bunds and									
containment structures	s on site, in addition to al	I bunds which failed the integrity	test-all bunding structures w	hich failed including mobi	ile bunds must be listed in		Condition 3.11 of licence requires tank and drum storage areas							
		le the licenced testing period (mo					to be tested. This condition is relevant only to Leachate Tank							
1				,		Yes 3 years	and Leachate Lagoon.							
2 Please provide integrity		a erground pipelines (including stori	muntar and faul). Tanks sum	one and containers? (conta	inore refere to	3 years								
3 "Chemstore" type units		erground pipelines (including stori	iliwater aliu lourj, raliks, suir	ips and containers: (conta	illers refers to	No								
4 How many bunds are or						110	2 1 bund around leachate tank, 1 storage lagoon							
		hin the required test schedule?					2							
6 How many mobile bund	ds are on site?						0							
7 Are the mobile bunds in						N/A								
		sted within the required test sche	dule?			N/A								
9 How many sumps on sit							0							
10 How many of these sun						N/A								
	tegrity failures in table B					No		7						
11 Do all sumps and chami		d alarms? in a maintenance and testing pro	aramma?			No SELECT		1						
		in a maintenance and testing pro ur integrity test programme?	granne:			N/A		1						
13 13 the rise water Retell	aon i ona maiaded III yo	or meeting test programme?				IV/A	+	4						
Tabl	e B1: Summary details o	f bund /containment structure int	egrity test	Ī										
														Results of retest(if in
Bund/Containment									Integrity reports maintained on		Integrity test failure		Scheduled date	
structure ID	Туре	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	site?	Poculte of toet	explanation <50 words	Corrective action taken	for retest	reporting yea
							Other test type				explanation 430 Words			
LT Leachate Tank	reinforced concrete	glass lined	Leachate	440	0 400	Structural assessment		Dec-13	Yes	Pass		SELECT	201	
		glass lined Lined and covered lagoon	Leachate Leachate	440 350		Structural assessment Hydraulic test	BS8007	Dec-13 Dec-13	Yes Yes	Pass Pass		SELECT	201 201	16
LG Leachate Lagoon * Capacity required should comp	other (please specify) ply with 25% or 110% containmen	Lined and covered lagoon It rule as detailed in your licence	Leachate				BS8007 Commentary					SELECT		16
LG Leachate Lagoon * Capacity required should comp Has integrity testing bee	other (please specify) ply with 25% or 110% containment en carried out in accorda	Lined and covered lagoon	Leachate d are all structures tested in	350	0	Hydraulic test						SELECT		16
LG Leachate Lagoon * Capacity required should comp Has integrity testing ber 15 line with BS8007/EPA G	other (please specify) ply with 25% or 110% containment en carried out in accorda Guidance?	Lined and covered lagoon It rule as detailed in your licence since with licence requirements an	Leachate d are all structures tested in		0	Hydraulic test Yes						SELECT		16
LG Leachate Lagoon * Capacity required should comp Has integrity testing ber 15 line with BS8007/EPA G 16 Are channels/transfer s	other (please specify) ply with 25% or 110% containment en carried out in accorda duidance? systems to remote contain	Lined and covered lagoon It rule as detailed in your licence unce with licence requirements an inment systems tested?	Leachate d are all structures tested in	350	0	Hydraulic test Yes No						SELECT		16
LG Leachate Lagoon * Capacity required should comp Has integrity testing ber 15 line with BS8007/EPA G 16 Are channels/transfer s	other (please specify) ply with 25% or 110% containment en carried out in accorda duidance? systems to remote contain	Lined and covered lagoon It rule as detailed in your licence since with licence requirements an	Leachate d are all structures tested in	350	0	Hydraulic test Yes						SELECT		16
LG Leachate Lagoon * Capacity required should comp Has integrity testing ber 15 line with BS8007/EPA G 16 Are channels/transfer s	other (please specify) ply with 25% or 110% containment en carried out in accorda duidance? systems to remote contain	Lined and covered lagoon It rule as detailed in your licence unce with licence requirements an inment systems tested?	Leachate d are all structures tested in	350	0	Hydraulic test Yes No						SELECT		16
LG Leachate Lagoon * Capacity required should com Has integrity testing bet 15 line with BS8007/EPA G 16 Are channels/transfer s 17 Are channels/transfer s	other (please specify) ply with 25% or 110% containment en carried out in accorda duidance? systems to remote contain	Lined and covered lagoon It rule as detailed in your licence unce with licence requirements an inment systems tested?	Leachate d are all structures tested in	350	0	Hydraulic test Yes No						SELECT		16
LG Leachate Lagoon *Capacity required should comp Has integrity testing be 15 line with BS8007/EPA G 16 Are channels/transfer s 17 Are channels/transfer s Pipeline/undergror	other (please specify) by with 25% or 110% containmer en carried out in accorda suidance? systems to remote contai systems compliant in bot und structure testing	Lined and covered lagoon trale as detailed in your leaves nee with licence requirements an inment systems tested? h integrity and available volume?	Leachate d are all structures tested in	bunding and storage guide	olines.	Hydraulic test Yes No						SELECT		16
LG Leachate Lagoon * Capacity required should comy Has integrity testing be 15 line with BS8007/EPA G 16 Are channels/transfer s 17 Are channels/transfer s Pipeline/undergrou Are you required by you	other (please specify) by with 25% or 110% containmer or carried out in accorda suidance? systems to remote contai systems compliant in bot und structure testing ur licence to undertake in	Lined and covered lagoon It vile a desibled in your licence ne with licence requirements an ninment systems tested? In integrity and available volume? Integrity testing* on underground	Leachate d are all structures tested in structures e.g. pipelines or st	bunding and storage guide	olines.	Hydraulic test Yes No SELECT						SELECT		16
LG Leachate Lagoon *Capacity required should comp Has integrity testing be: 15 line with BS8007/EPA G 16 Are channels/transfer s 17 Are channels/transfer s Pipeline/undergrout Are you required by you 1 all underground structure	other (please specify) ply with 25% or 110% containmen or carried out in accords suidance? ystems to remote contai systems compliant in bot und structure testing ur licence to undertake in ures and pipelines on site ures and pipelines on site	Uned and covered lagoon It vie a defailed in your lecenz rece with licence requirements an Imment systems tested? h integrity and available volume? Integrity testing* on underground which failed the integrity test an	Leachate d are all structures tested in structures e.g. pipelines or st	bunding and storage guide	olines.	Hydraulic test Yes No SELECT						SELECT		16
LG Leachate Lagoon *Capachy required should come Has integrity testing be 15 line with BS8007(Fy testing be 16 Are channels/transfer s 17 Are channels/transfer s Pipeline/undergrout Are you required by you 1 all underground structu 2 Please provide integrity	other (please specify) by with 25% or 110% containmen carried out in accord de juidance? ysstems to remote contain systems to remote contain systems compliant in bot und structure testing ur licence to undertake it rres and pipelines on site testing frequency perio	Lined and covered lagoon to the statistic year lesses ince with licence requirements an imment systems tested? h integrity and available volume? Integrity testing* on underground which failed the integrity test and	Leachate d are all structures tested in structures e.g. pipelines or su d all which have not been te	356 bunding and storage guide umps etc? If yes please fill sted withing the integrity t	olines.	Hydraulic test Yes No SELECT						SELECT		16
LG Leachate Lagoon *Capachy required should come Has integrity testing be 15 line with BS8007(Fy testing be 16 Are channels/transfer s 17 Are channels/transfer s Pipeline/undergrout Are you required by you 1 all underground structu 2 Please provide integrity	other (please specify) by with 25% or 110% containmen carried out in accord de juidance? ysstems to remote contain systems to remote contain systems compliant in bot und structure testing ur licence to undertake it rres and pipelines on site testing frequency perio	Uned and covered lagoon It vie a defailed in your lecenz rece with licence requirements an Imment systems tested? h integrity and available volume? Integrity testing* on underground which failed the integrity test an	Leachate d are all structures tested in structures e.g. pipelines or su d all which have not been te	356 bunding and storage guide umps etc? If yes please fill sted withing the integrity t	olines.	Hydraulic test Yes No SELECT						SELECT		16
LG Leachafe Lagoon *Capacity request debud some Has integrify testing be 15 line with SS007/EPA G 16 Are channels/transfer s 17 Are channels/transfer s Pipeline/undergrou Are you required by you 1 all underground structure. *Please provide integrity t *please note integrify t	other (please specify) by whe 25% or 10% containers or carried out in accord de juidance? ystems to remote contai systems compliant in bot und structure testing ur licence to undertake is res and pipelines on site t testing frequency perio esting means water tight	Lined and covered lagoon to the statistic year lesses ince with licence requirements an imment systems tested? h integrity and available volume? Integrity testing* on underground which failed the integrity test and	Leachate d are all structures tested in structures e.g. pipelines or si d all which have not been te	356 bunding and storage guide umps etc? If yes please fill sted withing the integrity t	olines.	Hydraulic test Yes No SELECT						SELECT		16
LG Leachafe Lagoon *Capacity request debud some Has integrify testing be 15 line with SS007/EPA G 16 Are channels/transfer s 17 Are channels/transfer s Pipeline/undergrou Are you required by you 1 all underground structure. *Please provide integrity t *please note integrify t	other (please specify) by whe 25% or 10% containers or carried out in accord de juidance? ystems to remote contai systems compliant in bot und structure testing ur licence to undertake is res and pipelines on site t testing frequency perio esting means water tight	Lined and covered lagoon to the activate your lesses unce with licence requirements an imment systems tested? h integrity and available volume? Integrity testing* on underground which failed the integrity test and of a failed the rintegrity test and the systems testing for process and foul integrity testing for process and foul integrity test and	Leachate d are all structures tested in structures e.g. pipelines or si d all which have not been te	356 bunding and storage guide umps etc? If yes please fill sted withing the integrity t	olines.	Hydraulic test Yes No SELECT						SELECT		16
LG Leachafe Lagoon *Capacity request debud some Has integrify testing be 15 line with SS007/EPA G 16 Are channels/transfer s 17 Are channels/transfer s Pipeline/undergrou Are you required by you 1 all underground structure. *Please provide integrity t *please note integrify t	other (please specify) by whe 25% or 10% containers or carried out in accord de juidance? ystems to remote contai systems compliant in bot und structure testing ur licence to undertake is res and pipelines on site t testing frequency perio esting means water tight	Lined and covered lagoon to the activate your lesses unce with licence requirements an imment systems tested? h integrity and available volume? Integrity testing* on underground which failed the integrity test and of a failed the rintegrity test and the systems testing for process and foul integrity testing for process and foul integrity test and	Leachate d are all structures tested in structures e.g. pipelines or si d all which have not been te	356 bunding and storage guide umps etc? If yes please fill sted withing the integrity t	olines.	Hydraulic test Yes No SELECT						SELECT		16
LG Leachafe Lagoon *Capacity request debud some Has integrify testing be 15 line with SS007/EPA G 16 Are channels/transfer s 17 Are channels/transfer s Pipeline/undergrou Are you required by you 1 all underground structure. *Please provide integrity t *please note integrify t	other (please specify) by whe 25% or 10% containers or carried out in accord de juidance? ystems to remote contai systems compliant in bot und structure testing ur licence to undertake is res and pipelines on site t testing frequency perio esting means water tight	Lined and covered lagoon to the activate your lesses unce with licence requirements an imment systems tested? h integrity and available volume? Integrity testing* on underground which failed the integrity test and of a failed the rintegrity test and the systems testing for process and foul integrity testing for process and foul integrity test and	Leachate d are all structures tested in structures e.g. pipelines or si d all which have not been te	356 bunding and storage guide umps etc? If yes please fill sted withing the integrity t	olines.	Hydraulic test Yes No SELECT						SELECT		16
LG Leachafe Lagoon *Capacity request debud some Has integrify testing be 15 line with SS007/EPA G 16 Are channels/transfer s 17 Are channels/transfer s Pipeline/undergrou Are you required by you 1 all underground structure. *Please provide integrity t *please note integrify t	other (please specify) by whe 25% or 10% containers or carried out in accord de juidance? ystems to remote contai systems compliant in bot und structure testing ur licence to undertake is res and pipelines on site t testing frequency perio esting means water tight	Lined and covered lagoon to the activate your lesses unce with licence requirements an imment systems tested? h integrity and available volume? Integrity testing* on underground which failed the integrity test and of a failed the rintegrity test and the systems testing for process and foul integrity testing for process and foul integrity test and	Leachate d are all structures tested in structures e.g. pipelines or si d all which have not been te	bunding and storage guide bunding and storage guide umps etc ? if yes please fill sted withing the integrity to your licence)	olines.	Hydraulic test Yes No SELECT	Commentary	Dec-13				SELECT		16
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LG Leachate Lagoon *Coacty requered about com, this integrity testing be 13 line with BSS007/Est 16 Are channels/transfer s 17 Are channels/transfer s Pipeline/undergro Are you required by you 1 all underground structu 2 Please provide integrity t *please note integrity t Table Structure ID	other (please specify) ply with 25% or 110% containment or carried out in accorda uildance? systems compliant in bot und structure testing ur licence to undertake is ures and pipelines on site t testing frequency perio BZ: Summary details of p	Lined and covered lagoon In the a detailed in your leanur Cee with licence requirements an Imment systems tested? In integrity and available volume? Integrity testing* on underground which failed the integrity test and d d Material of construction:	Leachate d are all structures tested in structures e.g. pipelines or si d all which have not been te pipelines (as required under y ntegrity test Does this structure have Secondary containment?	bunding and storage guide sumps etc ? if yes please fill sted withing the integrity to your licence) Type of secondary containment	out table 2 below listing test period as specified Type integrity testing	Hydraulic test Yes No SELECT No SELECT Integrity reports maintained on site?	Commentary Results of test	Dec-13 Integrity test failure explanatior	Yes Corrective action	Pass Scheduled date for retest	reporting year)	SELECT		16

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

Groundwater/Soil monitoring template Lic No: W0025-04 Year 2015

		Comments	
1 Are you required to carry out groundwater monitoring as part of your licence requirements?	ves		Please provide an interpretation of groundwater monitoring data in the
2 Are you required to carry out soil monitoring as part of your licence requirements?	no		interpretation box below or if you require additional space please
³ Do you extract groundwater for use on site? If yes please specify use in comment section	no		include a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER
4 Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit Groundwater separately through ALDER as a licensee return AND answer questions 5-monitoring template 5 Is the contamination related to operations at the facility (either current and/or historic)	yes yes	A Tier 3 risk assessment for Powerstown Landfill was submitted to the EPA. This report contains the requirement of the groundwater monitoring template and the conceptual site model.	Groundwater quality results were submitted to the EPA during 2015 in the form of quarterly and annual groundwater compliance monitoring reports. Quarterly groundwater monitoring results for Powerstown Landfill were compared to S.I. No 9 of 2010 for the 4 monitoring events. Groundwater results were also compared to groundwater trigger levels (GTLs)for the site. Following the completion of the Tier 3 risk Assessment report, groundwater compliance values were derived for BH1, BH2, BH3 and GW8 which supersede previous groundwater trigger
Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site 7 Please specify the proposed time frame for the remediation strategy 8 Is there a licence condition to carry out/update ELRA for the site?	yes SELECT SELECT	Capping of unlined cells completed. Tier 3 Risk Assessment completed. Recommendations as per section 9 of the Tier 3 Risk assessment are currently being carried out for the Powerstown Stream and groundwater monitoring.	
9 Has any type of risk assesment been carried out for the site?	yes	submitted to EPA .	
10 Has a Conceptual Site Model been developed for the site?	yes		
11 Have potential receptors been identified on and off site?	N/A		
12 Is there evidence that contamination is migrating offsite?	yes		

Table 1: Upgradient Groundwater monitoring results

	- 1-9									
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data
2015	RCA2	Ammonia (as N)		quarterly	0.048	0.027	mg/l	0.175	S.I No 9 2010	no
		chloride		quarterly	21	20.3	mg/l	187.5	S.I No 9 2010	no
		Dissolved Oxygen		quarterly	76	72	% saturation			no
		Conductivity		quarterly	839	796	uS/cm	1875	S.I No 9 2010	no
		рН		quarterly	7.3	7.2	pH units			no
		Temp		quarterly	11.3	9.1	оС			no
		TOC		quarterly	1	1	mg/l			no
		boron		annually	nm		ug/l	750	S.I No 9 2010	no
		cadmium		annually	<0.020		ug/l	3.75	S.I No 9 2010	no
		calcium		annually	120		mg/l			no
		total chromium		annually	1.8		ug/l	37.5	S.I No 9 2010	no
		copper		annually	<1.0		ug/l	1500	S.I No 9 2010	no
		iron		annually	170		ug/l			no
		lead		annually	<1.0		ug/l	18.75	S.I No 9 2010	no
		magnesium		annually	16		ug/l			no
		manganese		annually	35		ug/l			no
		nickel		annually	<1.0		ug/l	15	S.I No 9 2010	no
		potassium		annually	1.3		mg/l			no
		sodium		annually	7		mg/l	150	S.I No 9 2010	no
		zinc		annually	18		ug/l			no
		fluoride		annually	<0.020		mg/l			no
		mercury		annually	<0.50		ug/l		S.I No 9 2010	no
		sulphate		annually	44		mg/l	187.5	S.I No 9 2010	no
		total alkalinity		annually	313		mg/l			no
		Orthophosphate		annually	0.012		mg/l			no
		TON		annually	11		mg/l			no

^{.+} where average indicates arithmetic mean

11

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

Date of sampling reference Substance Methodology frequency Concentration unit GTV's* SELECT** of monitor gramming reference Conductivity Quarterly 31 31 % saturation Dissolved Oxygen Quarterly 7.3 7.1 pH units 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	ge on ears
Sample location Parameter/ Substance Methodology frequency Concentration reference Substance Methodology frequency Concentration unit GTV's* SELECT** of monitor monit	ge on ears
Date of sampling reference Substance Methodology frequency Concentration unit Average Concentration unit GTV's* SELECT** of monitor monitor meterence Substance Methodology frequency Concentration unit GTV's* SELECT** of monitor mo	ears
sampling reference Substance Methodology frequency Concentration unit GTV's* SELECT** of monitor 2015 GW8 Ammonia (as N) quarterly 0.096 0.053 mg/l 0.175 S.I No 9 2010 no chloride quarterly 26 23.5 mg/l 187.5 S.I No 9 2010 no Dissolved Oxygen quarterly 31 31 % saturation no Conductivity quarterly 781 734 uS/cm 1875 S.I No 9 2010 no pH quarterly 7.3 7.1 pH units no no Temp quarterly 12.1 11.6 oC no no TOC quarterly 1 1 mg/l no no	
2015 GW8 Ammonia (as N) quarterly 0.096 0.053 mg/l 0.175 S.I No 9 2010 no chloride quarterly 26 23.5 mg/l 187.5 S.I No 9 2010 no Dissolved Oxygen quarterly 31 31 % saturation no Conductivity quarterly 781 734 uS/cm 1875 S.I No 9 2010 no pH quarterly 7.3 7.1 pH units no Temp quarterly 12.1 11.6 oC no TOC quarterly 1 1 mg/l no	
chloride quarterly 26 23.5 mg/l 187.5 S.I No 9 2010 no Dissolved Oxygen quarterly 31 31 % saturation no Conductivity quarterly 781 734 uS/cm 1875 S.I No 9 2010 no pH quarterly 7.3 7.1 pH units no Temp quarterly 12.1 11.6 oC no TOC quarterly 1 1 mg/l no	
Dissolved Oxygen Quarterly 31 31 % saturation no	
Conductivity quarterly 781 734 uS/cm 1875 S.I No 9 2010 no pH quarterly 7.3 7.1 pH units no Temp quarterly 12.1 11.6 oC no TOC quarterly 1 1 mg/l no	
Temp quarterly 12.1 11.6 oC no no TOC quarterly 1 1 mg/l no no	
TOC quarterly 1 1 mg/l no	
1 1	
cadmium annually 0.02 ug/l 3.75 S.I No 9 2010 no	
calcium annually 99 mg/l no	
total chromium annually 1.8 ug/l 37.5 S.I No 9 2010 no	
copper annually <1	
iron annually 79 ug/l no	
lead annually <1 ug/l 18.75 S.I No 9 2010 no	
magnesium annually 16 ug/l no	
manganese annually 20 ug/l no	
nickel annually <1 ug/l 15 S.I No 9 2010 no	
potassium annually 2.7 mg/l no	
sodium annually 8.8 mg/l 150 S.I No 9 2010 no	
zinc annually 12 ug/l no	
fluoride annually <0.20 mg/l no	
mercury annually <0.5 ug/l 0.75 S.I No 9 2010 no	
sulphate annually 43 mg/l 187.5 S.I No 9 2010 no	
total alkalinity annually 278 mg/l no	
Orthophosphate annually <0.01 mg/l no	
ISELECT SELECT	
SELECT	

Groundw	ater/Soil m	onitoring temp	late		Lic No:	W0025-04			Year	2015	
Table 3: 9	Soil results										
Date of sampling	Sample location reference	Parameter/ Substance		Monitoring frequency	Maximum Concentration	Average Concentration		unit			
							SELECT				
							SELECT				
			•	•	•				-		
Г									٦		
		Wh	ere additional det	ail is required ple	ease enter it here in 20	0 words or less					

Environmental Liabilities template	Lic No:	W0025-04	Year	2015

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

	_		Commentary
1	ELRA initial agreement status		
		Submitted and agreed by EPA	
2	ELRA review status	Review required and completed	
3 A	Amount of Financial Provision cover required as determined by the latest ELRA	Specify	3,474,000
4	Financial Provision for ELRA status	Required but not submitted	
		·	
5	Financial Provision for ELRA - amount of cover	Specify	
-			
6	Financial Provision for ELRA - type	Public Liability Insurance with Environmental Impairment Liability cover,	
U	Tillancial Frovision for EERA - type	r abile Liability insurance with Environmental impairment Liability Cover,	
-	Singuistal agenticing for SLDA coming data	Fakes assets, dake	
/	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	Closure plan submitted and agreed by EPA	
9	Closure plan review status	Review required and completed	
10	Financial Provision for Closure status	Required but not submitted	
11	Financial Provision for Closure - amount of cover	Specify	7,415,000
12	Financial Provision for Closure - type	cash deposit	
13	Financial provision for Closure expiry date	Enter expiry date	

	Environmental Management Programme/Continuous Improvement Programme	e template	Lic No:	W0025-04	Year	2015
	Highlighted cells contain dropdown menu click to view		Additional Information		_	
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes				
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes				
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes				
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes				

Environmental Management Programme (EMP) report										
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes					
	cell 17/18									
	review odour management		additional gas wells							
	plan		update plan							
	inspect and seal wellheads		inspections completed							
	Update gas production		new gas model completed							
	model									
	Carry out gas utilisation									
	study									
Reduction of emissions to Air		90		Individual	Reduced emissions					
	Complete Tier 3				Increased compliance with					
Groundwater protection	Risk Assessment	90	report submitted to EPA	Individual	licence conditions					
	Review bird control									
	tender									
	Review pest control									
	tender									
	Investigate leachate		new tenders in place		Increased compliance with					
Additional improvements	treatment	90	leachate trials completed	Individual	licence conditions					

Noise monitoring summary report	Lic No:	W0025-04	Year 2015
1 Was noise monitoring a licence requirement for the AER period? If yes please fill in table N1 noise summary below		Yes	
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? Does your site have a noise reduction plan	Noise Guidance note NG4	Yes	
When was the noise reduction plan last updated? Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last relevant to site noise emissions.	noise survey?	Enter date No	

Table N1: No	se monitoring s	ummary									
Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}		If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site</u> compliant with noise limits (day/evening/night)?
10/12/2015	15:14	opposite old entrance	S1	71	60	75	85	No	SELECT	no audible site activities, noise sources are from motorway and regional road	Yes
10/12/2015	15:44	opposite old entrance	S1	71	61	75	81	No		no audible site activities, noise sources are from motorway and regional road	Yes
10/12/2015	16:14	opposite old entrance	S1	72	60	75	80	No		no audible site activities, noise sources are from motorway and regional road	Yes
10/12/2015	11:49	local access road	S2	68	51	62	93	No		no audible site activities, noise sources are from local road and quarry to the south	Yes
10/12/2015	12:19	local access road	S2	67	51	61	92	No		no audible site activities, noise sources are from local road and quarry to the south	Yes
10/12/2015	12:50	local access road	S2	65	49	61	89	No		no audible site activities, noise sources are from local road and quarry to the south	Yes
10/12/2015	13:28	near old entrance	N4	57	51	60	69	No		no audible site activities, noise sources are from motorway and regional road	Yes
10/12/2015	14:08	near old entrance	N4	58	53	61	67	No		no audible site activities, noise sources are from motorway and regional road	Yes
10/12/2015	14:38	near old entrance	N4	58	52	61	68	No		no audible site activities, noise sources are from motorway and regional road	Yes
10/12/2015	08:30	near new entrance	N5	52	48	53	73	No		minor audible site activities, noise sources are from local road and quarry to the south	Yes
10/12/2015	09:30	near new entrance	N5	51	47	51	75	No		minor audible site activities, noise sources are from local road and quarry to the south	Yes
10/12/2015	09:31	near new entrance	N5	52	46	51	78	No		minor audible site activities, noise sources are from local road and quarry to the south	Yes
10/12/2015	10:06	east of railway line	N6	49	42	48	68	Yes		minor audible site activities, noise sources are from local road and quarry to the south	Yes
10/12/2015	10:36	east of railway line	N6	49	44	49	69	No		minor audible site activities, noise sources are from local road and quarry to the south	Yes
10/12/2015	11:07	east of railway line	N6	49	44	49	73	No		minor audible site activities, noise sources are from local road and quarry to the south	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?	
Any additional comments? (less than 200 words)	

Yes

accredited programme

other initiative (please specify)

energy audit

Resource Usage/Energy efficiency summary Lic No: W0025-04 Year 2015

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

2 such as the SEAI programme linked to the right? If yes please list them in additional information

Industry Energy Network (LIEN)

N/A

07/01/2014 Council has signed up to Energy MAP

Additional information

Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage

3

in additional information

Table R1 Energy usag	e 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)	85.11	95.34		
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	55	61		
Natural gas (m3)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

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

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

Table R2 Water usage	e on site		·		Water Emissions	Water Consump	tion
	Water extracted		compared to	consumption if it	Volume Discharged back to	Volume used i.e not discharged to environment	Unaccounted for
Water use	Previous year m3/yr.	Current year m3/yr.	reporting year**	production*	environment(m ³ yr):	e.g. released as	Water:
Groundwater							
Surface water							
Public supply	72.87	81.46					
Recycled water							
Total							

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

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

Table R3 Waste Stream	Summary				
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)	32.08			32.08	
Non-Hazardous (Tonnes)	57637.29	56652.84		984.45	

e Usage/Energy efficiency sur	nmary			Lic No:	W0025-04		Year	2015
Table R4: Energy Au	dit finding recommenda	tions						
Date of audit		Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
07/01/2014	Reduce site MIC from 74 to <29	Contact service	energy audit	25	2014	Energy Engineer		completed during 2014
, ,	Remove storage	Remove storage	0,			3, 3		, , , , , , , , , , , , , , , , , , ,
	humidifier in storage	heaters and install de-humidifier in						Completed February
07/01/2014		storage containers Replace convector	energy audit	25	2014	Site Managemen	t	2014
	heater with radiant	heater with radiant heater with						use of heaters
07/01/2014	appropriate controls	appropriate controls	energy audit	25	2014	Site Managemen	t	area
	Improve housekeeping, optimise PC usage and	Ensure lights and pc's and shut down						

minimal

2014 all staff

continuously

ongoing

Table R5: Power Generation: Where	power is generat	ed onsite (e.g. power g	eneration facilities/fo	ood and drink industr	y)please complete the folio
	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 or	n Site				

when not in use

energy audit SELECT

07/01/2014 lighting

Complaints and Incidents summary template		Lic No:	W0025-04	Year	2015
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	Yes				

Table 1	Complaints summary						
			Brief description of				
			complaint (Free txt <20	Corrective action< 20			Further
Date	Category	Other type (please specify)	words)	words	Resolution status		information
	Odour		odour nuisance	additional cover	Complete	30/01/2015	
	Odour		odour nuisance	additional cover	Complete	30/01/2015	
Jan-15	Odour		odour nuisance	additional cover	Complete	30/01/2015	
	Odour		odour nuisance	additional cover	Complete	30/01/2015	
Jan-15	Odour		odour nuisance	additional cover	Complete	30/01/2015	
Jan-15	Odour		odour nuisance	additional cover	Complete	30/01/2015	
Apr-15		flies	flies near landfill	additional cover	Complete	30/04/2015	
May-15		flies	flies near landfill	additional cover	Complete	31/05/2015	
May-15		flies	flies near landfill	additional cover	Complete	31/05/2015	
Jun-15		flies	flies near landfill	additional cover	Complete	30/06/2015	
Jun-15		flies	flies near landfill	additional cover	Complete	30/06/2015	
Jul-15		flies	flies near landfill	additional cover	Complete	31/07/2015	
Sep-15		flies	flies near landfill	additional cover	Complete	31/07/2015	
	SELECT				SELECT		
otal complaints				•			
pen at start of							
eporting year	0						
otal new		†					
omplaints							
eceived during							
cccived duling							

reporting year
Total complaints closed during reporting year Balance of complaints end of reporting year

		In	cidents			Ī								
					Additional information	_								
Have any incide	nts occurred on site in the current	reporting year? Please list a	Il incidents for current											
	reporting year	in Table 2 below	_	Yes										
*For information	on on how to report and what													
	stitutes an incident	What is an incident												
		- I	⊒											
Table 2 Incidents sur	mmary													
			Incident				Activity in							
			category*please refer to			Other cause(please	progress at time			Corrective action<20	Preventative action		Resolution	Likelihood of
Date of occurrence	Incident nature	Location of occurrence	guidance	Receptor	Cause of incident	specify)	of incident	Communication	Occurrence	words	<20 words	Resolution status	date	reoccurence
25/12/2015	Odour	flare shutdown	2. Limited	Air	Plant or equipment issues		Normal activities	EPA	New	flare restart	flare mtce	Complete	25/12/2015	5 Low
15/12/2015	leachate level above 1m	cells 15-18	1. Minor	no release	Plant or equipment issues		Normal activities	EPA	New	pump leachate	pump mtce	Complete	31/12/201	5 Medium
14/12/2015	leachate level above 1m	cells 15-18	1. Minor	no release	Plant or equipment issues		Normal activities	EPA	New	pump leachate	pump mtce	Complete	31/12/2015	5 Medium
										continue gas	continue gas			
08/12/2015	breach of ELV CO2	boundary gas well	1. Minor	Air	Other (add details)	gas migration	Normal activities	EPA	Recurring	extraction	extraction	Complete	31/12/201	5 Medium
										continue gas	continue gas			
26/11/2015	breach of ELV CO2	boundary gas well	1. Minor	Air	Other (add details)	gas migration	Normal activities	EPA	Recurring	extraction	extraction	Complete	30/11/201	5 Medium
										continue gas	continue gas			
29/10/2015	breach of ELV CO2	boundary gas well	1. Minor	Air	Other (add details)	gas migration	Normal activities	EPA	Recurring	extraction	extraction	Complete	30/10/201	5 Medium
										continue gas	continue gas			
16/09/2015	breach of ELV CO2	boundary gas well	1. Minor	Air	Other (add details)	gas migration	Normal activities	EPA	Recurring	extraction	extraction	Complete	30/09/201	5 Medium
										continue gas	continue gas			
06/08/2015	breach of ELV CO2	boundary gas well	1. Minor	Air	Other (add details)	gas migration	Normal activities	EPA	Recurring	extraction	extraction	Complete	30/08/201	5 Medium
										continue gas	continue gas			
23/07/2015	breach of ELV CO2	boundary gas well	1. Minor	Air	Other (add details)	gas migration	Normal activities	EPA	Recurring	extraction	extraction	Complete	31/07/201	5 Medium

Complaints and	l Incidents summary t	emplate			Lic No:	W0025-04		Year	20:	15				
25/06/2015	breach of ELV CO2	boundary gas well	1. Minor	Air	Other (add details)	gas migration	Normal activities	EPA	Recurring	continue gas extraction	continue gas extraction	Complete	30/06/2019	5 M
25/05/2015	breach of ELV CO2	boundary gas well	1. Minor	Air	Other (add details)	gas migration	Normal activities	EPA	Recurring	continue gas extraction	continue gas extraction	Complete	31/05/2019	5 M
24/04/2015	breach of ELV CO2	boundary gas well	1. Minor	Air	Other (add details)	gas migration	Normal activities	EPA	Recurring	continue gas extraction	continue gas extraction	Complete	30/04/2011	5 M
18/03/2015	breach of ELV CO2	boundary gas well	1. Minor	Air	Other (add details)	gas migration	Normal activities	EPA	Recurring	continue gas extraction	continue gas extraction	Complete	31/03/201	5 M
06/02/2015	breach of ELV CO2	boundary gas well	1. Minor	Air	Other (add details)	gas migration	Normal activities	EPA	Recurring	continue gas extraction	continue gas extraction	Complete	28/02/201	5 M
16/01/2015	breach of ELV CO2	boundary gas well	1. Minor	Air	Other (add details)	gas migration	Normal activities	EPA	Recurring	continue gas extraction	continue gas extraction	Complete	31/01/201	5 M
13/10/2015	Breach of ELV	surface emissions VOC	1. Minor	Air	Other (add details)	gas migration	Normal activities	EPA	Recurring	continue gas extraction	continue gas extraction	Complete	30/10/201	5 M
12/05/2015	Breach of ELV	surface emissions VOC	1. Minor	Air	Other (add details)	gas migration	Normal activities	EPA	Recurring	continue gas extraction	continue gas extraction	complete	31/05/2019	5 M
20/08/2015	Breach of ELV SS	Licenced discharge point (ty	1. Minor	Water	Adverse weather	suspended solids	Normal activities	EPA	New	close emission pt.	continue monitoring	Complete	30/08/2015	5 Lo
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SE

the ansence of the landfill manager on

WASTE SUMMARY	Lic No:	W0025-04	Year	2015	
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIE	S	PRTR facility logon		dropdown list click to see options	

SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES			
	А	dditional Information	n
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 1 through PRTR reporting)	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	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	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 h	ave been repo	orted in your P	RTR workbook)

Description of waste accepted Please enter an accurate and detailed description-which applies to relevant EWC code Quantity of waste accepted in current reporting year (tonne Quantity of waste accepted in Packaging Content (%)-Disposal/Recovery or treatment operation carried out at your site and the description of this operation Licenced annual onnage limit for your Source of waste accepted previous reporting year (tonnes) Increase over eduction/increas on site at the end of reporting site (total eporting year (tonnes from previous waste has a packaging year (tonnes) reporting year European Waste Catalogue EWC codes opean Waste Catalogue EWC codes 15418 50,000 ray whelan pre-treated municipal waste D5- Specially engineered landfile 200307 4275 clonmel waste D5- Specially engineered landfill AS-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials

DS-Specially engineered landfill

0 country clean D5- Specially engineered landfil country clean R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the D5- Specially engineered landfill D5- Specially engineered landfill
R8-Recyling/rectamation or other inorganic materials which includes soil celaning resuling in recovery of the
D5- Specially engineered landfill
D5- Specially engineered landfill clean ireland killarney waste disposal pre-trweated street cleaning D5- Specially engineered landfill killarney waste disposal pre-treated household waste D5- Specially engineered landfil waste recovery services pre-treated municipal waste D5- Specially engineered landfi clare waste bulky waste D5- Specially engineered landfill treated municipal waste white skip hire bulky waste
white skip hire pre-treated household waste D5- Specially engineered landfi D5- Specially engineered landfill white skip hire pre-treated municipal waste D5- Specially engineered landfill clonmel waste bottom ash cover material stabilised biowaste cover material RS-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the RS-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the clean ireland nternational catering waste D5- Specially engineered landfill public skips carlow county council kilkenny county council uncil, not possible to verify from our records du

CTION C-TO BE COMPLETED BY	ALL WASTE FACILITIES (waste	transfer stations. Composters	Material recovery facilities	s etc) EXCEPT LANDELL	SITES

278.28

carlow county council clean ups carlow county council fly tipping

carlow county council g carlow county council

carlow county council rubble

carlow county council

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?

170101

rable 2	waste type	e and tonnage-iandiiii (эпіу

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
residual household				
commercial	48,500	56,600		
industrial solids				
C&D	1,000	0	50,000	
treated sludge	500	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		Lined disposal area occupied by waste	Unlined area	Comments on liner type
										SELECT UNIT	SELECT UNIT	SELECT UNIT	
cell 15/16	2006	2012	no	public	non-haz	2016	no	no	no	18,000	18,000	0	bentonite/double HDPE
cell 17	2013	2015	no	public	non-haz	2016	no	no	no	9,000	9,000	0	bentonite/double HDPE
cell 18	2015	present	Yes	public	Non Hazardous	2016	No	No	No	9,000	9,000	0	bentonite/double HDPE

D5- Specially engineered landfill D5- Specially engineered landfill

D5- Specially engineered landfill

D5 - Specially engineered landfill R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the

R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the

onitoring in mpliance with andfill Directive (LD) andard in reporting ara + with LD standard in reporting year yes yes yes yes yes yes yes able 5 Capping-Landfill Only Area with temporary cap Area with temporary cap Area with final cap to LD Area with final cap to LD		1				Lic No:	W0025-04		Year
onitoring in mpliance with andfill Directive (LD) andard in reporting ara + with LD standard in reporting year yes yes yes yes yes yes yes able 5 Capping-Landfill Only Area with temporary cap Area with temporary cap Area with final cap to LD Area with final cap to LD		ntal monitoring-landfill only	Landfill Manual-Monitoring Star	ndards			•		•
please refer to Landfill Manual linked above for relevant Landfill Directive monitoring standards able 5 Capping-Landfill only Area with waste that should be permanently capped to date under	Was meterological monitoring in compliance with Landfill Directive (LD) standard in reporting year +	Was leachate monitored in compliance	compliance with LD standard in			Were emission limit values agreed with	of the site surveyed in	under S53(A)(5) of WMA been submitted in	Comments
Area with temporary cap Area with final cap to LD Area with final cap to LD Area with final cap to LD	yes	yes		yes	Yes	Yes	Yes	No	
		andfill only			should be permanently				
	Area uncapped*		Area with final cap to LD			What materials are used in the can	Comments		
36,000 0 0 temporary cap planned for 2016 18,000		SELECT UNIT	Standard m2 ha, a	Area capped other					
please note this includes daily cover area	SELECT UNIT		Standard m2 ha, a		18,000				
able 6 Leachate-Landfill only	SELECT UNIT 36,000	0			18,000			_	
leachate from your site treated in a Waste Water Treatment Plant? Yes	36,000 please note this include	0 es daily cover area			18,000		<u> </u>	4	

Yes
No

							Specify type of	
	Volume of leachate in		Leachate (COD) mass load		Leachate (Chloride)		leachate	
	reporting year(m3)	Leachate (BOD) mass load (kg/annum)	(kg/annum)	Leachate (NH4) mass load (kg/annum)	mass load kg/annum	Leachate treatment on-site	treatment	Comments
ľ	16871	1265	15959	607	12.231	0		
	100/1	1203	13535	007	12,231	· · ·		,

	Please ensure that all information reported in the landfill gas section is consistent with the Landfill Gas Survey submitted in conjunction with PRTR returns				
la 7 Landfill Can Landfill and					

Table 7 Landfill Gas	s-Landfill only			
Gas Captured&Treated			Was surface emissions monitoring performed	
by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	during the reporting year?	Comments
3,389,166	0	0	Yes	



| PRTR# : W0025 | Facility Name : Powerstown Landfill Site | Filename : W0025_2015.xls | Return Year : 2015 |

Guidance to completing the PRTR workbook

PRTR Returns Workbook

Version 1.1.19

1 FACILITY IDENTIFICATION

1.1 AGIENT IDENTIFICATION	
Parent Company Name	
Facility Name	Powerstown Landfill Site
PRTR Identification Number	W0025
Licence Number	W0025-04

Classes of Activity

Cidocoo oi riolirity	
No.	class_name
	Refer to PRTR class activities below

Address 1	Kilkenny Rd.
Address 2	
Address 3	
Address 4	
	Carlow
Country	Ireland
Coordinates of Location	
River Basin District	
NACE Code	
	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	
AER Returns Contact Email Address	
AER Returns Contact Position	
AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	
Production Volume Units	
Number of Installations	
Number of Operating Hours in Year	
Number of Employees	
User Feedback/Comments	Air emissions-There is a difference in emissions in the period 2014 to
	2015, aswell as previous to that. The reason for this is likely due to the
	use of different calculation methods. For these calculations, a
	claibrated landfill gas calibration model was used to provide a best
Web Address	

2. PRTR CLASS ACTIVITIES

2.1 KTK OLAGO ACTIVITIES	
	Activity Name
5(d) 5(c) 5(d)	Landfills
5(c)	Installations for the disposal of non-hazardous waste
5(d)	Landfills
	General
3. SOLVENTS REGULATIONS (S.I. No. 543 of 20	002)

Is it applicable? Have you been granted an exemption? If applicable which activity class applies (as per Schedule 2 of the regulations)? Is the reduction scheme compliance route being

WASTE IMPORTED/ACCEPTED ONTO SITE Do you import/accept waste onto your site for on-

Guidance on waste imported/accepted onto site

site treatment (either recovery or disposal activities) ?

This question is only applicable if you are an IPPC or Quarry site

07/06/2016 09:27

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

	RELEASES TO AIR				Please enter all quantities i	in this section in KGs		
	POLLUTANT		Mi	THOD			QUANTITY	
				Method Used	flare 1			
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
08	Nitrogen oxides (NOx/NO2)	M	EN 15058:2004	•	153.7	153.7	0.0	0.0
02	Carbon monoxide (CO)	M	EN 14792:2005		8.8	8.8	0.0	0.0
11	Sulphur oxides (SOx/SO2)	M	OTH	TGN 21, NDIR absorption	1059.0	1059.0	0.0	0.0
				Total estimated methane				
				generated minus methane				
01	Methane (CH4)	M	OTH	flared	0.0	245635.0	0.0	245635.0

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

SECTION B : REMAINING PRTR POLLUTANTS

SECTION B. REMAINING I KIKI SEESIAN										
	RELEASES TO AIR	Please enter all quantities in this section in KGs								
		METH	HOD	QUANTITY						
			Me	ethod Used	flare 1					
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 HCI)	M	EN 1911-1 to 3:2003		5.7		5.7 0.	0.0		
84	Fluorine and inorganic compounds (as HF)	M	ISO/DIS 15713:2004		12.8	1	2.8 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		
				M	ethod 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		
					EN12619:2013 Flame						
237		Volatile organic compounds (as TOC)	M	OTH	Ionisation Detection	10.2	! 1	0.2 0.0	0.0		
		* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button									

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) tlared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report the Nemethane (CH4) emission to the environment under T(total) KGyf rot Section A. Sector specific PRTR pollutants above. Please complete the table below:

Link to previous years emissions data

Landfill:	Powerstown Landfill Site					
Please enter summary data on the quantities of methane flared and / or utilised			Met	hod Used		
				Designation or	Facility Total Capacity m3	
	T (Total) kg/Year	M/C/E	Method Code	Description	per hour	
Total estimated methane generation (as pe						
site model)	944846.0	E	OTH	Landgem	N/A	
Methane flared	699211.0	M	ОТН	From landfill gas survey	0.0	(Total Flaring Capacity)
Methane utilised in engine/					0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section A						
above)	245635.0	С	OTH	Calculated. Landgem model	N/A	

O. O	ENT & OTTOTILE TRA		Please enter	all quantities on this sheet in Tonnes	One I licitarii	. 110020_	2010.810 11010111 1011 . 21	,,,,,				07700/2010 00:2
			Quantity (Tonnes per Year)		Waste		Method Used		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 Destinatio i.e. Final Recovery / Disposal Situ (HAZARDOUS WASTE ONLY)
Transfer Destination	European Waste Code	Hazardous		Description of Waste	Treatment Operation	M/C/E	Method Used	Location of Treatment				
Within the Country	13 02 05	Yes	6.34	mineral-based non-chlorinated engine, gear and lubricating oils	R13	М	Weighed	Offsite in Ireland	ENVA Ireland, W0181-01 Greenstar, WFP - KK-09-0003	-,-,Portlaoise,Co. Laois,Ireland	ENVA Ireland,W0181-01	-,-,Portlaoise,Co. Laois,Ireland
Within the Country	15 01 02	No	64.78	plastic packaging (bottles & wrapping)	R13	М	Weighed	Offsite in Ireland		-,-,-,Kilkenny,Ireland		
Within the Country	15 01 05	No	0.0	composite packaging (tetrapac)	R13	М	Weighed	Offsite in Ireland		-,-,-,Kilkenny,Ireland		
Within the Country	15 01 07	No	59.08	glass packaging	R13	М	Weighed	Offsite in Ireland		-,-,Naas,Co. Kildare,Ireland Mooretown,Dromiskin,Dunda	ı	
Within the Country	16 01 03	No	0.0	end-of-life tyres	R13	М	Weighed	Offsite in Ireland		k,Co Louth,Ireland -,-,Portlaoise,Co.	R.D. Recycling,51727-1-	
To Other Countries	16 01 07	Yes	1.02	oil filters	R13	М	Weighed	Abroad	ENVA Ireland,W0181-01	Laois, Ireland	KD,Houthalen,,Belgium Campine Recycling Ltd,MLAV /05,Campine Recycling	Houthalen,,,,,,Belgium Campine Recycling
To Other Countries	16 06 01	Yes	5.68	lead batteries	R13	M	Weighed	Abroad	ENVA Ireland,W0181-01	-,-,Portlaoise,Co. Laois,Ireland	Ltd,173/GVDA,Beerse,.,Belgi um	Ltd,173/GVDA,Beerse,.,Be us
Within the Country	16 06 04	No		alkaline batteries (except 16 06 03)	R13	М	Weighed	Offsite in Ireland	The Recycling Village,WFP- LH-10-0010-01 Greenstar,WFP -KK-09-0003	-,-,-,Co. Louth,Ireland		
Within the Country	17 08 02	No		gypsum-based construction materials other than those mentioned in 17 08 01 landfill leachate other than those mentioned	R13	М	Weighed	Offsite in Ireland		-,-,-,Kilkenny,Ireland		
Within the Country	19 07 03	No	16871.0	in 19 07 02	D8	М	Weighed	Offsite in Ireland		Carlow,.,.,Ireland		
Within the Country	20 01 01	No	189.34	paper and cardboard	R13	М	Weighed	Offsite in Ireland		-,-,-,Kilkenny,Ireland		
Within the Country	20 01 02	No	28.22	flat glass	R13	М	Weighed	Offsite in Ireland	01	-,-,-,Kilkenny,Ireland Balintrane,Fenagh,Co.		
	20 01 08 20 01 11	No No		textiles	R13 R13	M M	Weighed Weighed		CW-10-0003-01 Mrs Quinns Charity Shop,-	Carlow,-,Ireland -,-,-,-,Ireland Cappincur Industrial Estate,Daingean		
Within the Country	20 01 21	Yes	0.5	fluorescent tubes and other mercury- containing waste	R13	М	Weighed	Offsite in Ireland	KMK Metals,W0113-01	Road,Tullamore,Co. Offaly,Ireland	KMK Metals,W0113-01	-,-,Tullamore,Co. Offaly,Ireland
Within the Country	20 01 23	Yes	21.76	discarded equipment containing chlorofluorocarbons	R13	М	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	.,.,,lreland
Within the Country	20 01 25	No		edible oil and fat	R13	M	Weighed	Offsite in Ireland	Pure Oil Ltd,NWCPO-10- 02557-01	-,Ballyweather,Barntown,Co. Wexford,Ireland	N	
To Other Countries	20 01 27	Yes	16.9	paint, inks, adhesives and resins containing dangerous substances discarded electrical and electronic equipmer	R13	М	Weighed	Abroad	ENVA Ireland,W0181-01	-,-,Portlaoise,Co. Laois,Ireland	Nehlsen,D33300040,Braeme n,,Germany	Braemen,.,.,,Germany
Within the Country	20 01 35	Yes	66.6	other than those mentioned in 20 01 21 and and 20 01 23 containing hazardous components discarded electrical and electronic equipmer	R13	М	Weighed	Offsite in Ireland	Ratcliffe Recycling Ltd,WCP- DC-08-1130-01	Ballystahan ,St. Margarets ,Dublin,.,Ireland Woodstock Industrial	Ratcliffe Recycling,WCP-DC- 08-1130-01,Ballystahan,St. Margarets,Dublin,.,Ireland	.,,,,,lreland
Within the Country	20 01 36	No	0.16	other than those mentioned in 20 01 21, 20 01 23 and 20 01 35 discarded electrical and electronic equipmer	R13	М	Weighed	Offsite in Ireland		Estate,Kilkenny Road,Athy ,Co. Kildare,Ireland		
Within the Country	20 01 36	No	38.0	other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R13	М	Weighed	Offsite in Ireland	Ratcliffe Recycling Ltd,WCP- DC-08-1130-01 Greenstar,WFP -KK-09-0003	,Dublin,.,Ireland		
Within the Country	20 01 38	No	89.86	wood other than that mentioned in 20 01 37	R13	M	Weighed	Offsite in Ireland		-,-,-,Kilkenny,Ireland		
Within the Country	20 01 40	No	90.18	metals	R13	М	Weighed	Offsite in Ireland		,Dublin,.,Ireland		
Within the Country	20 02 01	No	225.36	biodegradable waste	R13	М	Weighed	Offsite in Ireland		-,-,-,Kilkenny,Ireland		
Within the Country	15 01 05	No	5.56	composite packaging	R13	М	Weighed	Offsite in Ireland		-,-,-,Kilkenny,Ireland		

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