Facility Information	n Summary				
AER Reporting Year	2016				
Licence Register Number	W0028-03				
Name of site	Ballydonagh Landfill				
Site Location	Ballydonagh, Dublin Rd, Athlone, County Westmeath.				
NACE Code	3821				
Class/Classes of Activity	Landfill closed 2010. Civic waste facility closed 2015				
National Grid Reference (6E, 6 N)	(-)6.22878 53.3496				

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.

This landfill closed in July 2010. The last section (1.3Ha) of the landfill was fully capped in 2012. On the closing of the landfill Oxigen Environmental operated a civic waste facility for Household waste up until the end of August 2015. The civic waste facility has been closed since that date. The quantity of waste received in 2015 was 669 tonnes. No waste was received in 2016, which is a 100% decrease on 2015. Leachate removal decreased from 2810 tonnes in 2015 to 2021 tonnes in 2016, a 28% reduction. The number of incidents in 2016 was 10, compared to 7 in 2015, a 30% increase. There is some evidance that might suggest that ground water is leaking into and out of the landfill. This leak may be causing Ammonia levels to rise in BH5. In response to this a sample from BH5 will be taken on the 22/2/17 and tested for list 1 & 2 parameters. Further actions maybe required on foot of this.

Declaration:

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

Signature

Group/Facility manager

(or nominated, suitably qualified and experienced deputy)

Date

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	AIR-summary template	Lic No:	W0028-03	Year	2016	
	Answer all questions and complete all tables where relevant					
			Add	itional 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	4.50	not carried out in 201 The existing flare is quality & quantity of the	oring for Nox, SO2 & TOC. Monitorin 15, but was carried out in June 2016. not able to cope with the change in 18 as on a 24 / 7 basis. As a result thuring for 12hours each day.		

	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	SELECT
3	Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? Basic air monitoring monitoring monitoring checklist? AGN2	SELECT

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
Flare stack	Nitrogen oxides (NOx/NO2)	Yearly	150	100 % of values < ELV	34.8	mg/Nm3	yes	EN 14792:2005		
Flare stack	Carbon monoxide (CO)	Yearly	50	100 % of values < ELV	48.7	mg/Nm3	γes	EN 15058:2004		
Flare stack	Volatile organic compounds (as TOC)	Yearly		100 % of values < ELV		mg/Nm3	yes SELECT	OTH SELECT		

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

	AIR-summary template	Lic No:	W0028-03	Year	2016	
	Continuous Monitoring					
4	Does your site carry out continuous air emissions monitoring?	No				
	If yes please review your continuous monitoring data and report the required fields below in Table A2 and comp it to its relevant Emission Limit Value (ELV)	are			_	
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	SELECT				
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	SELECT				
7	Did your site experience any abatement system bypasses? If yes please detail them in table A3 below Table A2: Summary of average emissions -continuous monitoring	SELECT				

Emission reference no:	Parameter/ Substance	ELV in licence or any revision therof		Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	2002/00/2005 00:00:00:00
	SELECT			SELECT	SELECT					
	SELECT	10			SELECT					i
	SELECT				SELECT				_	
	SELECT				SELECT					
	SELECT		"		SELECT	3			i -	

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

Bypass protocol

Date*	Duration** (hours)	Location	Reason for bypass	Impact magnitude	Corrective action
				<u></u>	
	 				

^{*} 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:	W0028-03		Year	2016	
Solven	t use and manageme	ent on site								
Do you have a tota	al Emission Limit Value of o	direct and fugitive em	issions on site? if y	es please fill out tables A4 and A	.5		No			
	ent Management Plassion limit value	an Summary	Solvent regulations	Please refer to linked solve complete table 5			INO			
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision therof	Compliance					:
		(4)			SELECT				s	
Table A5:	Solvent Mass Balan	ce summary							-	
	(I) Inputs (kg)			(O)	Outputs (kg)					
Solvent	(i) inputs (kg)		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:	W0028-03	Y
				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 storm water analysis and visual inspections	No		rface water monitoring points, SW1 is US on the and SW3 (DS) is located on a SW drain the around the landfill & NG	.,
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 evidence of contamination	
	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 thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with	Comments
SW1	upstream	SELECT	Ammonia (as'N)	22/06/2016		SELECT	<0.41	mg/L	SELECT	Exceeds A1, complies with A2
SW1	upstream		Conductivity	22/06/2016			623	μS/cm @20oC		Complies with A1
SW1	upstream		80D	22/06/2016			<1	mg/L		Complies with A1
SW2	downstream		Ammonia (as N)	22/06/2016			<0.41	mg/L		Exceeds A1, complies with A2
SW2	downstream		Conductivity	22/06/2016			633	μS/cm @20oC		Complies with A1
SW2	downstream	SELECT	BOD	22/06/2016		SELECT	2	mg/L	SELECT	Complies with A1

^{*}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
	P	- 10 240 - 10 20 20 20 20 20 20 20 20 20 20 20 20 20	SELECT		
			SELECT		

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

		andreament bearing		P frion commi	110003
3	Was there any result in breach of licence requirements? If y comment section of Table W3		ef details in the	SELECT	Additional information
	Was all monitoring carried out in accordance with EPA				
	guidance and checklists for Quality of Aqueous Monitoring	External /Internal		July 95, 238	
	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	SELECT	

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

Emission released to	Parameter/ SubstanceNote 1	The Part of the Control of the Contr	Frequency of monitoring		ELV or trigger values in licence or any revision therof ^{Note 2}	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load	Comments
 SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT			
										all transmission				

2016

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 EQ5 for Surface water or relevant receptor quality standards

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER	R) Lic No:	W0028-03	Year 2016	
Continuous monitoring		Additional Information		
5 Does your site carry out continuous emissions to water/sewer monitoring?	No			
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	SELECT			
7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?	SELECT			
8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below	SELECT			
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		Number of ELV exceedences in	Comments
	SELECT	SELECT	M	SELECT	SELECT	SELECT					Contraction
	SELECT	SELECT	9	SELECT	SELECT	SELECT	8				

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

Table W5: Abatement system bypass reporting table

Date	Ouration (hours)	DODD THE STATE OF	Resultant emissions	Reason for bypass	Corrective action*	Was a report submitted to the EPA?	When was this report submitted?
						SELECT	5
]						II

^{*}Measures taken or proposed to reduce or limit bypass frequency

Band testing dropdown menu click to see options Additional information 2 No. Isachate holding stanks. 2 No. Isachate so dispersion of legable to understake integrity testing on bunds and containment structures which failed miduding mobile bunds must be listed in buth stanks indicate that otherwise research and great and mobile bunds on stanks the listed in buth stanks indicate that otherwise research a greater of bunds, underground pipelines (including flowbile bunds and chemistoric included) No. Isachate stanks which the required test schedule? No. Isachate stank bunds are on size? We the mobile bunds have been tested within the required test schedule? So all sumps and chambers have high level floudd airam? Ye so flows many of these sumps are integrity tests the lengthy tests schedule? No. Isachate stank has a high level alarm? Ye so flows many of these sumps are integrity failure in lengthy tests schedule? No. Isachate stank has a high level alarm? Ye so flows many of these sumps are integrity failure in landle as all summance and testing programme? No. Isachate stank has a high level alarm yet of the summany details of bund / containment structure integrity test failure Scheduled data sum/Containment Table 81: Summany details of bund / containment structure integrity test failure Scheduled data sum/Containment structure integrity test failure Scheduled d						. t	iteman es								-
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Secretary of the control of the cont	Bund testing	cho-	dropdown menu d	dick to see options	1.			Additional Information							
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Table 11: Emmany desire of body growing middles and another middle and						le bunds must be listed in			.						
Table 15 - Semany desired for the semant and	the table below, <u>plea</u>	ise include all bunds out:	side the licenced testing period (mo	obile bunds and chemstore inc	uded)		Yes		'						
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SELECT SE	structure ID		Specify Other type	Product containment	Actual capacity	Capacity required*		Other test type	Test date			explanation <50 words		for retest	reporti
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Figeline/underground structure testing re 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 floor districtives and pipelines on site which failed the integrity test and all which have not been tested withing the Integrity test period as specified as periodic integrity testing means water tightness testing for process and foul pipelines (as required under your licence) Table 82: Summary details of pipeline/underground structures integrity test Type of secondary containment Type system Material of construction: SELECT					bunding and storage guide	aines			-						
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The second state of the se					
Groundwater/Soil monitoring template	Lic No:	W0028-03	Year	2016	
			1001	2010	

			Comments	
Are you required to carry out groundwater monitoring as part of your lice requirements?	4	/es	Monitor 1 upgradient and 3 downgradient.	Please provide an interpretation of groundwater monitoring data in the
2 Are you required to carry out soil monitoring as part of your licence requi	rements?	10		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 co	omment section	10		include a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER
separately through ALDER as a licensee return AND answer questions n	Groundwater nonitoring emplate p	oossible	Exceedances of IGV's are most likely a result of the underlying geological makeup.	w we will also the control of the co
5 Is the contamination related to operations at the facility (either current ar	nd/or historic) u	insure		
6 Have actions been taken to address contamination issues?If yes please su	mmarise	SEV EN	The landfill has been	15
remediation strategies proposed/undertaken for the site	у	es	fully capped.	
7 Please specify the proposed time frame for the remediation strategy	2	4 months		High levels of Ammonia have been recorded in BH5 which is
8 Is there a licence condition to carry out/update ELRA for the site?	y	es		downgradient of the landfill. This is located in a forest area, where the
9 Has any type of risk assesment been carried out for the site?	y	es	Submitted	well head is low to the ground and uncovered. This borehole had a cap
10 Has a Conceptual Site Model been developed for the site?	n	10	·	placed on it in January 2017 to prevent any surface ingress. The Council
11 Have potential receptors been identified on and off site?	y.	es	Private wells	will sample and test for List 1 & 2 parameters. This may indicate

Table 1: Upgradient Groundwater monitoring results

	,									
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data
		Total								
		oxidised					1 :- 1	43 (1.3)		
07/12/2016	ВН7	nitrogen		Annual	2.2	2.2	mg/l			no
07/12/2016	ВН7	Iron		Annual	<0.23		mg/l		i	no
07/12/2016	ВН7	Sulphate		Annual	9.4		mg/l			no
	-	Ammoniacal						111111111111111111111111111111111111111		
07/12/2016	вн7	nitrogen		Annual	<0.41	<0.41	mg/l	Track		data not available

^{.+} where average indicates arithmetic mean

Table 2: Downgradient Groundwater monitoring results

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

	oundwater/Soil monitoring template				W0028-03		Year	Year 2016		
Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data	
BH5	Total oxidised		Annual	2	2	mg/l				
BH5	1			0.26						-
BH5	Sulphate		Annual	10.3				 		4
BH5	Ammoniacal nitrogen Total		Annual	1.44					data not available	
BH8	oxidised nitrogen		Annual	<0.7					no	
	 							<u> </u>		
	Ammoniacal									
BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	H5 H5 H5 H5 H8	location reference Parameter/ Substance Total oxidised nitrogen H5 Iron H5 Sulphate Ammoniacal nitrogen Total oxidised nitrogen H8 nitrogen H8 Iron H8 Sulphate Ammoniacal	location reference Substance Methodology Total oxidised nitrogen H5 Iron H5 Sulphate Ammoniacal nitrogen Total oxidised nitrogen H8 Iron H8 Sulphate Ammoniacal oxidised nitrogen H8 Iron H8 Sulphate Ammoniacal	location reference Substance Methodology Monitoring frequency Total oxidised Annual H5 Iron Annual H5 Sulphate Annual H5 nitrogen Annual H5 nitrogen Annual H5 Annual H6 Annual H8 Iron Annual H8 Iron Annual H8 Iron Annual H8 Annual H8 Annual H8 Annual Annual Annual Annual Annual Annual Annual	location reference Substance Methodology Monitoring frequency Concentration Total oxidised Annual 2 H5 Iron Annual 0.26 H5 Sulphate Annual 10.3 Ammoniacal nitrogen Annual 1.44 Total oxidised Annual 1.44 H8 Iron Annual 1.47 H8 Iron Annual 1.47 Ammoniacal 1.47	location reference Substance Methodology Monitoring frequency Concentration Concentration Total oxidised H5 nitrogen Annual 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3	Docation reference	Docation reference	Docation reference	location reference Substance Methodology Monitoring frequency Concentration Unit GTV's* SELECT** of monitoring data of monitori

Groundwater/Soil monitoring template	Lic No:	W0028-03	Year	2016	
	- 10 10				

Tak	ماد	2.	Soil	results
1 80)	-5:	2011	resuits

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

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

Environmental Liabilities template	Lic No:	W0028-03	Year	2016
Click here to access EPA guidance on Environmental Liabilities and Fina	ncial		Teal .	2010

ere to access EPA guidance on Environmental Liabilities and Financial provision

			Commentary
1	ELRA initial agreement status		Ballydonagh is an engineered landfill with a sealed under liner. The landfill is closed & it is permanently capped. Leachate is removed as required from the landfill & an extensive monitoring regime is in place in & around the landfill. A 1000 m3 flare is now operating 12 hours per day to burn of the gas and operates at over 1000C while regular gas balancing is carried out to ensure the maximum gas
	¥	Required but not submitted	extraction from the landfill.
2	ELRA review status	SELECT	
3	Amount of Financial Provision cover required as determined by the latest ELRA	Specify	
4	Financial Provision for ELRA status	SELECT	
5	Financial Provision for ELRA - amount of cover	Specify	
6	Financial Provision for ELRA - type	SELECT	
7	Financial provision for ELRA expiry date	Enter expiry date	
8		losure plan submitted and agreed by	EPA
9	Closure plan review status	SELECT	
4.5			Westmeath Co. Council will draw from reserved internal capital resources to fund the
10	Financial Provision for Closure status	SELECT	ongoing aftercare of the landfill.
11	Financial Provision for Closure - amount of cover	Specify	Westmeath Co. Council will draw from
			reserved internal capital resources to fund the
12	Financial Provision for Closure - type	SELECT	ongoing aftercare of the landfill.
13	Financial provision for Closure expiry date	Enter expiry date	and altered to the landing

1920	Environmental Management Programme/Continuous Improvement Programme	e template	Lic No:	W0028-03	Year	2016
	Highlighted cells contain dropdown menu click to view		Additional Information	on		
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes	in accordance with re	MS is to ensure the operation of the site is egulatory requirements and best landfill ment a schedule of objectives and targets.		
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	the gas collection sys	osed the emphasis is on, management of tem, the operation of the flare and the . The civic amenity site closed Aug 2015.		
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	extraction wells. 2) leak in the under lin	es for 2017: 1) Carry out repairs to the gas Monitor leachate generation. Check for a ner. 3) Flaring the maximum amount of gas quire the flare to be down sized / replaced.	*.	
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		their well water monitored by the Council ed regarding adverse findings.		

Environmental Management Programme (EMP) report									
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes				
Energy Efficiency/Utility conservation	Examine the utisation of landfill gas as a source of energy		Contractor was appointed, however they have indicated that they are no longer interested in completing the contract due to fall off in gas flows.		None				
SELECT		SELECT		SELECT	SELECT				
SELECT		SELECT		SELECT	SELECT				

Noise monitoring summary report	Lic No:	W0028-03	Year	2016
1 Was noise monitoring a licence requirement for the AER period? If yes please fill in table N1 noise summary below		No		
if yes please in in table (41 hoise summary below	Noise			
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?	Guidance note NG4	SELECT		
3 Does your site have a noise reduction plan	note NO4	SELECT		
4 When was the noise reduction plan last updated?		Enter date		
Have there been changes relevant to site noise emissions (e.g. plant or operational changes) sinc survey?	e the last noise	SELECT		

Table N1: No	Table N1: Noise monitoring summary					and the same of					
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 <u>site</u> compliant with noise limits (day/evening/night)?
								SELECT	SELECT		SELECT
	-				-						gradiente de chemical
						<u> </u>			1		
					-						
				-							

^{*}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)	

3

2016

When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below

Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information

Network (LIEN)

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

additional information

Enter date of audit

Yes

SELECT

Table R1 Energy usag	e on site	1			
Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	
Total Energy Used (MWHrs)	T-1				
Total Energy Generated (MWHrs)					
Total Renewable Energy Generated (M	//WHrs)				
Electricity Consumption (MWHrs)	39.12	40.87		4% increase	
Fossil Fuels Consumption:					
Heavy Fuel Oil (m3)					
Light Fuel Oil (m3)					
Natural gas (m3)					
Coal/Solid fuel (metric tonnes)					
Peat (metric tonnes)					
Renewable Biomass					
Renewable energy generated on site	ąr				

^{*} 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 Wate	er usage on site	I			Water Emissions	Water Consumption		
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	compared to previous reporting	A STATE OF THE PROPERTY OF THE PARTY OF THE	Volume Discharged back to environment(m³yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:	
Groundwater	0		D					
Surface water	0		0					
Public supply	no figures. Low	no figures. Low						
Recycled water	O		D					
Total				i		 	-	

^{*} 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)						
Non-Hazardous (Tonnes)						

Usage/Energy efficiency summary				Lic No:	W0028-03		Year	2016
Table R	4: Energy Audit finding recommen	dations						
Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
			SELECT					
			SELECT					
			SELECT					

	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)			127		
KWH per Litre of Process Water					
KWH per Litre of Total Water used on S	iite				

Complaints and Incidents summary template	Lic No:	W0028-03	Year	2016	
Complaints				-	
	Additional in	nformation			
Have you received any environmental complaints in the current reporting year? If yes please complete summary	110				
details of complaints received on site in table 1 below					

19016	1 Complaints summary						
Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action< 20 words	Resolution status	Possiution date	Further
	SELECT	Totale type (piesse specify)	1	40103	SELECT	Resolution date	Information
	SELECT				SELECT		-
	SELECT		· · · · · · · · · · · · · · · · · · ·	 	SELECT		+
	SELECT				SELECT		1
	SELECT				SELECT		1
Total complaints open at start of reporting year Total new complaints received during reporting year			9.				*
Total complaints closed during reporting year							
Balance of complaints end of reporting year							

	Incidents		7000	
Have any incidents occurred on site in the current repo	rting year? Please list all incid	ents for current reporting	Yes	Additional information
*For information on how to report and what constitutes an incident	What is an incident			

Table 2 Incidents sui	mmary		1											
						Other	Activity in				Preventative			
			Incident category*please	1		cause(please	progress at			Corrective action<20	action <20		Resolution	Likelihood of
Date of occurrence		Location of occurrence	refer to guidance	Receptor	Cause of Incident	specify)	time of incident	Communication	Occurrence	words	words	Resolution status	date	reoccurence
11/01/2016	Other(please specify)	Flare	1. Minor	Air	Low methane		Normal activities	EPA	Recurring			Ongoing		Medium
20/01/2016	Other(please specify)	Flare	1. Minor	Air	Low methane		Normal activities	EPA	Recurring			Ongoing		Medium
15/06/2016	Trigger level reached	perimeter gas wells	1. Minor	Air	high CH4 & CO2		Normal activities	EPA	Recurring		<u> </u>	Ongoing		High
18/08/2016	Monitoring equipment offline	Flare	1. Minor	Air	air compr down		Normal activities	EPA	Recurring		-	Complete		Medium
21/10/2016	Other(please specify)	Flare	1. Minor	Air	Low methane	_	Normal activities		Recurring			Ongoing		Medium
11/11/2016	Other(please specify)	Flare	1. Minor	Air	Plant or equipme	nt issues	Normal activities		New	thermocoupler replace	-d	Complete		Medium
18/11/2016	Monitoring equipment offline	Flare	1. Minor	Air	High O2		Normal activities		New	pipes repaired	<u> </u>	Complete		Medium
03/12/2016	Monitoring equipment offline	Flare	1. Minor	Air	power failure		Normal activities		New	рурез теринев		Complete		
	Trigger level reached	Surface water		Water	ground conditions		Normal activities		Recurring	_				Medium
	Trigger level reached	Ground water		Ground	ground conditions		Normal activities			Cap well & sample		Ongoing Ongoing		High High

Total number of	
incidents current	
year	
Total number of	
incidents previous	
year	. 7
% reduction/	
Increase	30% increase

VASTE SUMMARY	Lic No:	W0028-03	Year	2016	NISS STATE
ECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TA	B- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES	PRTR facility logon	dropdown list clic	ck to see options	

SECTION B- WAST	E ACCEPTED ONTO SITE-TO E	E COMPLETED BY ALL I	PPC AND WASTE FAC	CILITIES		7					
							Additional Information	2n			
Were any wastes <u>accept</u> boundaries is to be capt	ted onto your site for recovery or disp tured through PRTR reporting)	osal or treatment prior to reco	very or disposal within the	boundaries of your facility	?; (waste generated within your	N/A	Landfill closed				
If yes please enter detail	ls in table 1 below							,			
Was was	ejected consignments of waste in the te accepted onto your site that was g	enerated outside the Republic	of Ireland? If yes please sta	ate the quantity in tonnes i	in additional information	No No					
Table 1 Details o	of waste accepted onto ye	our site for recovery,	disposal or treatm	nent (do not inclu	de wastes generated at yo	our site, as the	se will have be	en reported in yo	ur PRTR workbook)		
Ucenced 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 relevant EWC code 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 -
			<u> </u>			1	<u> </u>	<u> </u>			
	COMPLETED BY ALL WASTE F				ery facilities etc) EXCEPT LAND	OFILL SITES					
ls all waste storage infra	structure as required by your licence	and approved by the Agency in	place? If no please list was	ite storage infrastructure r	equired an site	Yes					
	elevant nuisance controls in place? anagement system in place for your f e register on site?	acility? If no why?				Yes Yes N/A					
SECTION D-TO BE	COMPLETED BY LANDFILL SIT	ES ONLY	1								
	and tonnage-landfill only										
Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (toa)	Remaining licensed capacity at end of reporting year (m3)	Comments							

Table 3 General information-Landfill only	
Table 3 delieral intollination-callotti offy	

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	Is there a separate cell for asbestos?	Accepted exhester in reporting	area occupied by	Lined disposal area occupied by waste	Unlined area	Comments on liner type
										SELECT UNIT	SELECT UNIT	SELECT UNIT	
Whole landfill	1991	2010	No	Public	Non Hazardous	9	No			5.9ha	5.9ha		engineered landfill

NASTE SUMMAR					Lic No:	W0028-03		Year	2016
Table 4 Environme	ental monitoring-landfill or	ly Landfill Manual-Monitoring S	tandards						
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	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	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments	
+ please refer to Landfi	Yes Manual linked above for relevant andfill only		Yes dards	INO	Yes	No	No	Landfill closed	
Table 5 Capping-La	I Manual linked above for relevant andfill only			Area with waste that	Yes	No	INO	Landfill closed	
+ please refer to Landfi Table 5 Capping-La	l Manual linked above for relevant	Landfill Directive monitoring stan		Area with waste that should be permanently	Yes	No]No	Landfill closed	
+ please refer to Landfil Table 5 Capping-La Area uncapped*	I Manual linked above for relevant andfill only			Area with waste that	Yes What materials are used in the cap	Comments	No	Landfill closed	
.+ please refer to Landfil Table 5 Capping-La Area uncapped*	I Manual linked above for relevant andfill only Area with temporary cap	Area with final cap to LD	dards	Area with waste that should be permanently capped to date under		Comments	No	Landfill closed	
+ please refer to Landfi Table 5 Capping-La Area uncapped*	I Manual linked above for relevant andfill only Area with temporary cap	Area with final cap to LD	dards	Area with waste that should be permanently capped to date under		Comments Final capping of	No	Landfill closed	
.+ please refer to Landfil Table 5 Capping-La Area uncapped*	I Manual linked above for relevant andfill only Area with temporary cap	Area with final cap to LD	dards	Area with waste that should be permanently capped to date under licence		Comments	No	Landfill closed	

Table 6 Leachate-Landfill only

9 Is leachate from your site treated in a Waste Water Treatment Plant?
10 Is leachate released to surface water? If yes please complete leachate mass load information below

Charles and American Company of the	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

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
268,879	0	\$1.00	No	Gas flared using 1000m3/hr flare 12 hrs/da



Guidance to completing the PRTR workbook

PRTR Returns Workbook

REFERENCE YEAR 2016 1. FACILITY IDENTIFICATION Parent Company Name | Westmeath County Council Facility Name Ballydonagh Landfill PRTR Identification Number | W0028 Licence Number W0028-03 Classes of Activity No. class_name - Refer to PRTR class activities below Address 1 Ballydonagh Address 2 Dublin Road Address 3 Athlone Address 4 Westmeath Country Ireland Coordinates of Location |-6.22878 53.3496 River Basin District IEGBNISH NACE Code 3821

Main Economic Activity Treatment and disposal of non-hazardous waste AER Returns Contact Name | Patrick Tighe AER Returns Contact Email Address | ptighe@westmeathcoco.ie AER Returns Contact Position | Senior Executive Technician AER Returns Contact Telephone Number 044 9332128 AER Returns Contact Mobile Phone Number | 087 7958143 **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 The Civic Amenity site operated by a third party closed in August 2015. As a result there are no tonnages to report for glass, clothes, mixed municipal waste, C & D waste, wood, metals and biodegradable waste. There was a 47% reduction in methane being flared in 2016 compared to 2015. This was as a result of a reduction in flare operation from 24 hours per day to 12 hours per day. The estimated fugitive emissions from the site are 9% higher than the 2015 figures due to the reduction in flaring. Web Address 2. PRTR CLASS ACTIVITIES
Activity Number
5(d) **Activity Name** 5(c) Installations for the disposal of non-hazardous waste 5(d) 50.1 Landfills General 3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002) Is it applicable? Have you been granted an exemption? If applicable which activity class applies (as per Schedule 2 of the regulations)? Is the reduction scheme compliance route being 4. WASTE IMPORTED/ACCEPTED ONTO SITE Guidance on waste imported/accepted onto site Do you import/accept waste onto your site for onsite treatment (either recovery or disposal

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

activities)?

SECTION A	SECTOR	SPECIFIC PRTS	POLITANTE
SECTION A	SELIUK	SPECIFIC PRIM	PULLUIANIS

	RELEASES TO AIR		Please enter all quantities in this section in KGs								
A Committee of the Comm	POLLUTANT	ALL STATE OF THE PARTY OF THE P	M	ETHOD			QUANTITY				
No. Annex II	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	E/E-Was MCMas			
	Methane (CH4) Carbon dioxide (CO2)		OTH OTH	Calculated using gas sym Calculated using gas sym	0.	0 438807.0 0 1341897.0	0.0	438807			

* Select a row by double-clicking on the Pollutant Name (Column 8) then dick the delete button

SECTION B : REMAINING PRTR POLLUTANTS

	RELEASES TO AIR	and the second s	Please enter all quantities in this section in KGs							
	POLLUTANT	METHOD		QUANTITY						
No. Annex II	Name	Method Used 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						

^{*} 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 quantitie	s in this section in KC	G5	33.6%
	POLLUTANT			METHOD		to-market and the state of the	QUANTITY	
Pollutant No.		larrie	M/C/E Method Code	Method Used Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Ye
	* Sefect a row by double-clicking on the Pollutant N	lame (Column B) then click the deleta button			0.0	0	0.0 0.0	

Additional Data Requested from Land	Ifill operators	-	-			
flared or utilised on their facilities to accompany the figure	e Gases, landfill operators are requested to provide summary data on landfill gas (Methane) wa for total methane generated. Operators should only report their Net methane (CH4) emission ctor specific PRTR pollutants above. Please complete the table below:					
	Ballydonagh Landfill				_	
Please enter summary data on the quantities of methane flared and / or utilised			Method Used			
1	T (Total) kg/Year	M/C/E	Method Code	Designation or Description	Facility Total Capacity m3 per hour	
Total estimated methane generation (as per		F 1 24 00 1				1
site model)	623664.0		ОТН	Gassim Lite 1,5	N/A	
Methane flared	184857.0	Ç	OTH	calculated using ay flow	1000.0	(Total Flaring Capacity)
Methane utilised in engine/s	0.0	11 - 22	Part of the last o	d Parallel State of the State o		(Total Utilising Capacity)
Net methane emission (as reported in Section A above)	438807.0	С	отн	Total minus flared	N/A	

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE | PRTR# W0028 | Facility Name | Ballydonagh Landfill | Filename | Ballydonagh PRTR W0028_2016.xlsm | Return Year | 2016 |

				quantities on this sheet in Tonnes	`	, ,				<u> </u>		21/03/2017 14
Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment	MICIE	Method Used Method Used	Location of Treatment	Haz Waste: Name and Licence/Permit No of Next Destination Facility Nor 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 Destinati i.e. Final Recovery / Disposal St (HAZARDOUS WASTE ONLY)
Transition December	0000	11102010000		Description of Frasts	Operation	ITANOIL	IMEDIOG OSEC	Headinent		Caldan late at Atlata		
			la	andfill leachate other than those mentioned					Athlone Waste Water	Golden Island ,Athlone ,Westmeath,Co		
Within the Country	19 07 03	No	1967.35 in	n 19 07 02 andfill leachate other than those mentioned	D8	С	Volume Calculation	Offsite in Ireland	Treatment Plant, D0007-01 Mullingar Waste Water	Westmeath, Ireland Clonmore, Mullingar, County		
Within the Country	19 07 03	No	53.28 in	1 19 07 02	D8	С	Volume Calculation	Offsite in Ireland	Treatment Plant, D0008-01	Westmeath, Ireland		

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

Link to previous years waste data
Link to previous years waste summary data & percentage change
Link to Waste Guidance