Facility Information Summary		1			
AER Reporting Year	2017]		
Licence Register Number	w0067-002		•		l
Name of site	Rathroeer	n Landfill, ki	Ilala Rd, Ballina Ma	yo	l
Site Location					
NACE Code					
Class/Classes of Activity					l
National Grid Reference (6E, 6 N)					L
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.					
		C	ompleted Capping o	of Cell 3B Rathr	oe

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.

9	
Michael Hegarty	25/03/2018
Signature Group/Facility manager	Date
(or nominated, suitably qualified and experienced deputy)	

AID arms	tomplot-					00/7 000		Year	2017	
AIR-summary Answer all question	template ons and complete all table	s where relevant			Lic No:	w0067-002			2017	
•	-						Additional informati	on	1	
				nd A2 below for the current						
reporting year a		ions. If you do not h	ave licenced emis	sions and do not complete a						
30176	management plan (to	, , , and MJ) you		piete trie tables	No]	
Period	ic/Non-Continuous N	Nonitoring							ı	
Are there any res	ults in breach of licence rec	quirements? If yes ple	ase provide brief de	tails in the comment section of						
,		TableA1 below			Completed Landfil					
Was all monitoris	ng carried out in accordance	o with EDA quidance	Basic air monitoring							
note AG2 ar	nd using the basic air monit	toring checklist?	checklist	AGN2	SELECT					
Table A1: Lice	ensed Mass Emissions	s/Ambient data-p	eriodic monito	ring (non-continuous)						
										Comments -
										reason for change in %
										mass load
			ELV in licence or							from previous
Emission		Frequency of	any revision			Unit of	Compliant with		Annual mass	year if
reference no:	Parameter/ Substance	Monitoring	therof	Licence Compliance criteria	Measured value	measurement	licence limit	Method of analysis	load (kg)	applicable
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT SELECT			SELECT SELECT		SELECT SELECT	SELECT SELECT	SELECT SELECT		<u> </u>
Note 1: Volumetri	ic flow shall be included as	a reportable paramet	er						l	1
	Continuous N	/lonitoring								
	Continuous II									
Does your site ca	rry out continuous air emis	sions monitoring?			SELECT					
If yes please revi		oring data and report		pelow in Table A2 and compare						
	onitoring equipment exper	ience downtime? If ye	s please record dov	wntime in table A2 below	SELECT					
Did continuous m						l			I	
	another consists	ior oneh nizf - · · ·	a	audam ant?	CELECT					
	pactive service agreement f	or each piece of conti	nuous monitoring e	quipment?	SELECT					
Do you have a pro	site experience any abatem	nent system bypasses?	'If yes please detail		SELECT SELECT					
Do you have a pro		nent system bypasses?	'If yes please detail							
Do you have a pro Did your s Table A2: Surr	site experience any abatem	nent system bypasses?	' If yes please detail us monitoring			Annual Emission	Annual maximum	Monitoring	Number of ELV	Comments
Did your s Did your s Table A2: Sum Emission	site experience any abatem	nent system bypasses?	' If yes please detail us monitoring	them in table A3 below	SELECT	Annual Emission	Annual maximum	Equipment	exceedences in	Comments
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AER Monitor	ring returns sur	mmary template-WAT	ER/WASTEWAT	ER(SEWER)		Lic No:	w0067-002		Year	2017				
complete	table W2 and W you do not have li	nissions direct to surface w 3 below for the current re- icenced emissions you only orm water analysis and vis	porting year and a y need to complete	nswer further	SELECT		Additional information							
2 discharges	or watercourses of	licence to carry out visual on or near your site? If yes idence of contamination n	please complete t	able W2 below	SELECT									
Table	e W1 Storm wa	ter monitoring												
Location reference	Location relative to site activities	PRTR Parameter SELECT	Licenced Parameter SELECT	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria SELECT	Measured value	Unit of measurement SELECT	Compliant with licence	Comments				
SW 1		BOD	JEELUI	27/09/2017		Section	,		JALLOT					
SW 1	upstream upstream	Suspended Solids		27/09/2017			<6 10 mg/l	mg/l mg/l						
SW 1	upstream upstream	COD pH		27/09/2017 27/09/2017			66 mg/l 7.4 pH Units	mg/l pH Units						
SW 1 SW 1	upstream upstream	Conductivity @20C Ammonia as NH3-N		27/09/2017 27/09/2017			643 uS/cm 0.125	uS/cm mg/l						
SW 1	upstream	Chloride		27/09/2017			29.1	mg/l						
SW 1	upstream upstream	Sulphate Temperature (by client)		27/09/2017 27/09/2017			65.3 Refer to Client	mg/l C						
SW 1	upstream	Dissolved Oxygen (mg/l)		27/09/2017			9.16 @fab	mg/l						
SW 2 SW 2	onsite onsite	BOD Suspended Solids		27/09/2017 27/09/2017	<u> </u>		<6 8 mg/l	mg/l mg/l						
SW 2 SW 2	onsite onsite	COD pH		27/09/2017 27/09/2017			73 mg/l 7.3 pH Units	mg/l pH Units						
SW 2 SW 2	onsite	Conductivity @200		27/09/2017			597 uS/cm	uS/cm						
SW 2	onsite onsite	Ammonia as NH3-N Chloride		27/09/2017			0.119 30.1	mg/l mg/l						
SW 2 SW 2	onsite onsite	Sulphate Temperature (by client)		27/09/2017 27/09/2017			66 Refer to Client	mg/l C						
SW 2	onsite	Dissolved Oxygen (mg/l)		27/09/2017			8.76 @lab	mg/l						
SW 3	downstream	BOD		27/09/2017			<5	mg/l						
SW 3	downstream downstream	Suspended Solids COD		27/09/2017 27/09/2017			4 mg/l 61 mg/l	mg/l mg/l						
SW 3	downstream	pH		27/09/2017			7.1 pH Units	pH Units						
SW 3	downstream downstream	Conductivity @20C Ammonia as NH3-N		27/09/2017 27/09/2017			611 uS/cm 0.489	uS/cm mg/l						
SW 3	downstream downstream	Chloride Sulphate		27/09/2017 27/09/2017			29.7 67.9	mg/l mg/l						
SW 3	downstream	Temperature (by client)		27/09/2017			Refer to Client	Č						
SW 3	downstream	Dissolved Oxygen (mg/l)		27/09/2017			8.12 @lab	mg/l						
SW 4 SW 4	downstream downstream	BOD Suspended Solids		27/09/2017 27/09/2017			<5 4 mg/l	mg/l mg/l						
SW 4 SW 4	downstream	COD pH		27/09/2017 27/09/2017			60 mg/l 7.3 pH Units	mg/l pH Units						
SW 4	downstream	Conductivity @200		27/09/2017			620 uS/cm	uS/cm						
SW 4 SW 4	downstream downstream	Ammonia as NH3-N Chloride		27/09/2017 27/09/2017			0.495 29.9	mg/l mg/l						
SW 4	downstream downstream	Sulphate Temperature (by client)		27/09/2017 27/09/2017			67.7 Refer to Client	mg/l						
SW 4		Dissolved Oxygen (mg/l)		27/09/2017			8.20 @tab	mg/l						
SW5	downstream	BOD		27/09/2017			2	mg/l						
SW5 SW5	downstream downstream	Suspended Solids COD		27/09/2017 27/09/2017			9 mg/l 28 mg/l	mg/l mg/l						
SW5 SW5	downstream downstream	pH Conductivity @200		27/09/2017 27/09/2017			7.9 pH Units 633 uS/cm	pH Units uS/cm						
SW5	downstream	Ammonia as NH3-N		27/09/2017			0.014	mg/l						
SW5 SW5	downstream downstream	Chloride Sulphate		27/09/2017 27/09/2017			25.9 38.7	mg/l mg/l						
SW5 SW5	downstream	Temperature (by client) Dissolved Oxygen (mg/l)		27/09/2017 27/09/2017			Refer to Client 9.13 @lab	C mg/l						
3473	SELECT	SELECT SELECT	SELECT	27703/2017		SELECT	7.13 0160	SELECT	SELECT					
*tringer values n		ne Agency outside of licence				SELECT		SELECT	SELECT					
		inspections-Please on		where contamin	ation was obse	rved.								
Location	Date of					Source of								
Reference	inspection		Description of cont	tamination		contamination	Corrective act	ion	Comr	ments				
						SELECT								
			·····											
		er and /or wastewater of licence requirements? If y			n-continuous)	ì								
3 Was there a	any result in breach o	or licence requirements? If y omment section of Table W3	jes piease provide bi B below	ter details in the	SELECT		Additional information							
Was all mor	nitoring carried out	in accordance with EPA												
guidance and	checklists for Quali	ty of Aqueous Monitoring	External /Internal Lab Quality	Assessment of										
			checklist		SELECT									
Table W3: Lie	icensed Emissio	ns to water and /or w	astewater (sew	er)-periodic mor	nitoring (non-co	ontinuous)								
						ELV or trigger values in licence or							Procedural	
Emission	Emission	Parameter/ SubstanceNote		Frequency of		any revision			Unit of	Compliant with		Procedural	reference	Annual mass load
reference no:	released to SELECT	1 SELECT	Type of sample SELECT	monitoring	Averaging period SELECT	therof ^{Note 2}	Licence Compliance criteria SELECT	Measured value	measurement SELECT	SELECT SELECT	Method of analysis SELECT	reference source SELECT	standard number	r (kg)
Note 1: Volumet	tric flow shall be inc	duded as a reportable param	eter					L						1
Note 2: Where E		es (ELV) do not apply to your	licence please comp	xare results against El	QS for Surface water	r or relevant recepto	or quality standards							
Continuous r		s emissions to water/sewer r	monitorin ²		CELEGY		Additional Information		1					
		inuous monitoring data belo	-		SELECT	l			J					
relevant Emissic	mmarise your cont on Limit Value (ELV))	w = 1 rable w4 and	compare it to its										
6 Did continuous r	monitoring equipme	ent experience downtime? If	yes please record o	lowntime in table]					
W4 below					SELECT				1					
7 Do you have a m														
7 Do you have a pr					SELECT]					
8 Did abatement s	system bypass occu	r during the reporting year? I rage emissions -contin	If yes please comple	ete table W5 below	SELECT				J					

7	Do you have a pr	roactive service cor	ntract for each piece of conti	nuous monitoring ec	uipment on site?	SELECT				
8	Did abatement system bypass occur during the reporting year? If yes please complete table W5 below					SELECT				
	Table W4: Su	immary of ave	rage emissions -contin	uous monitorin	g		,			
		Emission released to		ELV or trigger values in licence or any revision thereof					Number of ELV exceedences in reporting year	Comments
		SELECT	SELECT		SELECT	SELECT	SELECT			
		SELECT	SELECT		SELECT	SELECT	SELECT			

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

Table W5	Table W5: Abatement system bypass reporting table											
Date	Duration (hours)		Resultant emissions	Reason for bypass	action*	submitted to the	When was this report submitted?					
	_					EPA? SELECT						

*Measures taken or proposed to reduce or limit bypass frequency

und/Pipeline te	esting template				Lic No:	w0067-002		Year	2017	7				
Bund testing	7	dropdown menu d	lick to see options				Additional information							
e you required by y	our licence to undertake ir	ntegrity testing on bunds and cont	ainment structures ? if yes ple	ase fill out table B1 below li	sting all new bunds and									
ntainment structur	res on site, in addition to al	I bunds which failed the integrity	test-all bunding structures wh	nich failed including mobile										
e table below, pleas	se include all bunds outsic	le the licenced testing period (mo	obile bunds and chemstore incl	uded)		Yes								
	ity testing frequency period					3 years								
		erground pipelines (including storr	nwater and foul), Tanks, sump	s and containers? (containe	rs refers to "Chemstore"									
pe units and mobile ow many bunds are						Yes								
		hin the required test schedule?						_						
ow many mobile bur				Completed Landf	illing to Cell 3B Rathroeen	Landfill in July 2016								
	included in the bund test					SELECT								
	nobile bunds have been tes site are included in the inte	ted within the required test sched	dule?											
	umps are integrity tested w													
	integrity failures in table B						•							
	mbers have high level liqui					SELECT								
		in a maintenance and testing pro ir integrity test programme?	gramme?			SELECT SELECT		-						
the rife water kete	ention Pona included in you	ir integrity test programme?				SELECT								
Ta	able B1: Summary details of	of bund /containment structure in	tegrity test	1										
														Resu
and /Containment									Integrity reports maintained on		Integrity toot follows		Scheduled date	retes
und/Containment ructure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	for retest	repor
eachate Lagoon	reinforced concrete		Leachate			Hydraulic test		2017	Yes	Pass		SELECT	202	
nemstore bund	prefabricated		Paint spills			Hydraulic test		2017	Yes	Pass		SELECT	202	:0
	mply with 25% or 110% containment been carried out in accorda	rule as detailed in your licence nce with licence requirements and	d are all structures tested in				Commentary							
ne with BS8007/EPA				bunding and storage guide	lines	SELECT								
	r systems to remote contai					SELECT								
re channels/transfer	r systems compliant in bot	h integrity and available volume?				SELECT								
Pipeline/undergr	round structure testing													
re you required by w	our licence to undertake in	ntegrity testing* on underground s	structures e a ninelines or sum	ons atc 2 if was plaged fill out	table 2 below listing all									
		nich failed the integrity test and a				SELECT								
ease provide integri	ity testing frequency period	i			•	SELECT								
olease note integrity	y testing means water tight	ness testing for process and foul p	oipelines (as required under yo	ur licence)										
Tab	ble B2: Summary details of	pipeline/underground structures	integrity test	1										
				Type of secondary										
				containment				Integrity test						
			Does this structure have			Integrity reports			Corrective action	Scheduled date	Results of retest(if in current			
Structure ID	Type system SELECT	Material of construction: SELECT	Secondary containment? SELECT	SELECT	Type integrity testing SELECT	maintained on site? SELECT	Results of test SELECT	<50 words	taken	for retest	reporting year) SELECT			
	JEEE G I	JEEE GT	SELECT	SELECT	SEECI	SELECT	SEEEGI		<u> </u>	1	SEEE (
												1		

		w0067-002		Year	2017
			Comments		
			Comments	Γ	
Are you required to carry out groundwater monitoring as part of your licence	requirements?	yes		Please provide an i	nterpretation of groundwater monitoring data in the
2 Are you required to carry out soil monitoring as part of your licence requiren	nents?	no		interpretation b	oox below or if you require additional space please
³ Do you extract groundwater for use on site? If yes please specify use in comr	nent section	no			undwater/contaminated land monitoring results retaion as an additional section in this AER
Do monitoring results show that groundwater generic assessment criteria su 4 GTVs or IGVs are exceeded or is there an upward trend in results for a subst. If yes, please complete the Groundwater Monitoring Guideline Template Reg (link in cell G8) and submit separately through ALDER as a licensee return AN answer questions 5-1 below.	ance? ort <u>Groundwater</u>	SELECT			
5 Is the contamination related to operations at the facility (either current and/	or historic)	SELECT			
6 Have actions been taken to address contamination issues? If yes please sumn	narise remediation				
strategies proposed/undertaken for the site		SELECT			
7 Please specify the proposed time frame for the remediation strategy		SELECT			
8 Is there a licence condition to carry out/update ELRA for the site?		SELECT			
9 Has any type of risk assesment been carried out for the site?		SELECT			
10 Has a Conceptual Site Model been developed for the site?		SELECT			
11 Have potential receptors been identified on and off site?		SELECT			
12 Is there evidence that contamination is migrating offsite?		SELECT		Ple	ease enter interpretation of data here

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance		Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	Upward trend in pollutant concentration over last 5 years of monitoring data
	MW2	pH		Q	7.4 pH Units	0.00	pH Units		SELECT
	MW2	Conductivity @20C		Q	943 uS/cm	0.00	uS/cm		
	MW2	Ammonia as NH3-N		Q	0.598	0.00	mg/l		
	MW2	Sodium, total		Q	38	0.00	mg/l		
	MW2	Chloride		Q	56.7	0.00	mg/l		
	MW2	Potassium, total		Q	5	0.00	mg/l		
	MW2	Sulphate		Q	40.8	0.00	mg/l		
	MW2	Temperature (by client)		Q	Refer to Client	0.00	C		
	MW2	Dissolved Oxygen (mg/l)		Q	4.7 @lab	0.00	mg/l		
	MW2	TOC		Q	4.93	0.00	mg/l		
	MW2	Faecal Coliforms Filtration		Q	< 10	0.00	cfu/100ml		
							SELECT		SELECT

where average indicates arithmetic mean
 where average indicates arithmetic mean
 maintum concentration indicates the maximum measured concentration from all monitoring results produced during the reporting year
 Table 2: Downgradient Croundwater monitoring results

Date of sampling	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
	MW3	pH		Q	6.6 pH Units	0.00	pH Units			SELECT
	MW3	Conductivity @20C		Q	981 uS/cm	0.00	uS/cm			
	MW3	Ammonia as NH3-N		Q	0.089	0.00	mg/l			
	MW3	Sodium, total		Q	15	0.00	mg/l			
	MW3	Chloride			22.6		mg/I			
	MW3	Potassium, total		Q	5	0.00	mg/l			
	MW3	Sulphate			20.2		mg/l			
	MW3	Temperature (by client)			Refer to Client		C			
	MW3	Dissolved Oxygen (mg/l)		Q	4.14@lab	0.00	mg/I			
	MW3	TOC		A	2.96	0.00	mg/l			
	MW3	Faecal Coliforms Filtration		Q	4	0.00	cfu/100ml			
	MW3	·								
							SELECT			SELECT

Groundwater monitoring template

ore information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and subsection on the use of soil and groundwater standards/ generic assessment criteria (GAC) and subsection of the Management of Contemporate and Account and Ac

	Groundwater	Drinking water		
Surface	regulations	(private supply)	Drinking water (public	Interim Guideline
water EQS	GTV's	standards	supply) standards	Values (IGV)

Table 3: Soil results

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

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

Environmental Liabilities template	Lic No:	w0067-002	Year	2017
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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 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 surance with Environmental Impairment Liability cover, Completed Landfilling to Cell 3B R	Rathroeen Landfill in July 2016
7 Financial provision for ELRA expiry date Enter expiry date	
8 Closure plan initial agreement status losure plan submitted and agreed by EPA	
9 Closure plan review status SELECT	
10 Financial Provision for Closure status SELECT	
11 Financial Provision for Closure - amount of cover Specify	
12 Financial Provision for Closure - type surance with Environmental Impairment Liability cover,	
Financial provision for Closure expiry date Enter expiry date	

Environmental Management Programme/Continuous Improvement Programme	template	Lic No:	w0067-002	Year	2017
Highlighted cells contain dropdown menu click to view		Additional Information		_	<u> </u>
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				
Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes				
Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes				

Environmental Management Programme (EMP) report									
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes				
Reduction of emissions to Air	Reduce odours feom Cell 3A	100	Permanent Cap installed	Section Head	Reduced emissions				
Energy Efficiency/Utility conservation	Gas Utilisation	40	Grid connection approved	Section Head	SELECT				
SELECT		SELECT		SELECT	SELECT				

Noise monitoring summary report	Lic No:	w0067-002	Year	2017
Was noise monitoring a licence requirement for the AER period? If yes please fill in table N1 noise summary below		Yes]	
in jos piouso illi ili tubio ivi iloiso sullilitur ji bolow	<u>Noise</u>		1	
2 Was noise monitoring carried out using the EPA Guidance note, including completion of the	Guidance	Yes		
"Checklist for noise measurement report" included in the guidance note as table 6?	note NG4			
3 Does your site have a noise reduction plan		No		
4 When was the noise reduction plan last updated?		Enter date		
5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) s survey?	ince the last noise	No		
Completed Landfilling to Cell 3B Rathroeen	Landfill in July 2010	6	-	
Table N1. Naisa manitaring summany				

Table N1: Noi	se monitoring su	ummary									
Date of monitoring		Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA_{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive	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)?
								No	SELECT	Road traffic	SELECT
								No		Road traffic	
								No		Road traffic	
								No		Road traffic	
								No		Road traffic	
								No		Road traffic	
								No		Road traffic	
								No		Road traffic	

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)
Any additional comments: (less than 200 words)

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

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

	Additional information
Enter date of audit	
No	
SELECT	

Table R1 Energy usag	e on site			
Energy Use	Previous year		compared to	Completed Landfilling to Cell 3B Rathroeen Landfill in July 2016
Total Energy Used (MWHrs)				
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (N	/IWHrs)			
Electricity Consumption (MWHrs)	123142	137242		
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	8320	7890		
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				Water Emissions	Water Consumption		
		Water extracted	compared to previous reporting	vs overall site	Volume Discharged back to	Volume used i.e not discharged to environment e.g. released as steam	
Water use	Previous year m3/yr.	Current year m3/yr.	year**	production*	environment(m³yr):	m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	296	69					
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					
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)					

Table R4: Energy Audit finding recommendations							
Date of audit			Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Status and comments
			SELECT				
			SELECT				
			SELECT				

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

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

Complaints and	Incidents summary templa	te			Lic No:	w0067-002		Year	2017	7		
		Complaints										
Have you receiv	ved any environmental complaints i summary details of complaints			Yes	Additional inform	ation						
					Completed Landfi	lling to Cell 3B Rath	nroeen Landfill in Jul	y 2016				
Table 1	1 Complaints summary		1									
			Brief description of									
			complaint (Free txt <20	Corrective action< 20			Further					
Date	Category	Other type (please specify)	words)	words	Resolution status	Resolution date	information					
	SELECT			 	SELECT		+	-				
	SELECT				SELECT			1				
	SELECT			<u> </u>	SELECT			1				
	SELECT				SELECT							
Total complaints												
open at start of												
reporting year												
Total new												
complaints received during												
reporting year												
Total complaints												
closed during												
reporting year												
Balance of												
complaints end of reporting year												
reporting year	<u> </u>											
		Incidents			Additional inform	ation						
Have any incidents	occurred on site in the current repo	orting year? Please list all incide	ents for current reporting		Additional inform	1						
riave any molderits		ble 2 below	onto for our one reporting	SELECT								
	-					_						
*For informati	on on how to report and what											
	stitutes an incident	What is an incident										
Table 2 Incidents sur	mmary	1				lost	Talasti da i to			ı	D	
			Incident category*rlassa			Other cause(please	Activity in			Corrective action<20	Preventative action <20	
Date of occurrence	Incident nature	Location of occurrence	Incident category*please refer to guidance	Receptor	Cause of incident		progress at time of incident	Communication	Occurrence	words	action <20 words	
Date of occurrence	moldoni flatare	200001011010000110100	roror to guidance	посорио	Sause of modern	opoury)	o. moident	SS./IIIIGIIICGCIOII	New	***************************************		_
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT		İ	
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			
L	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			
Total number of		1										

incidents current year

SECTION A-PRTR ON					Lic No:	w0067-002		Year	2017			
	SITE WASTE TREATMENT AND	WASTE TRANSFERS TAB-	TO BE COMPLETED E	BY ALL IPPC AND WA	ASTE FACILITIES	PRTR facility logor	L	dropdown I	st click to see options			
SECTION B- WASTE	ACCEPTED ONTO SITE-TO BE CO	MPLETED BY ALL IPPC AN	ID WASTE FACILITIES			J	Additional Informati	on				
Were any wastes accepte	d onto your site for recovery or disposal o	or treatment prior to recovery or	disposal within the bound	daries of your facility ?; (w	aste generated within your boundaries			Ī				
is to be captured through If yes please enter details						SELECT		1				
								Ī				
Did your site have any rej	ected consignments of waste in the curre	nt reporting year? If yes please o	give a brief explanation in t	the additional information	1	No		†				
Was wa	aste accepted onto your site that was gen	erated outside the Republic of Ir	reland? If yes please state	the quantity in tonnes in a	additional information	No		1				
Licenced annual	waste accepted onto your s	Source of waste accepted	Description of waste	Quantity of waste	Quantity of waste accepted in	Reduction/	Reason for	Packaging Content (%)-	Disposal/Recovery or	Quantity of	Comments -	1
tonnage limit for your site (total		·	accepted Please enter an	accepted in current reporting year (tonnes)	previous reporting year (tonnes)	Increase over previous year +/ -	reduction/ increase from previous	only applies if the waste has a packaging	treatment operation carried out at your site and the description	waste remaining on		
tonnes/annum)			accurate and detailed description - which	33		%	reporting year	component	of this operation	site at the end of reporting		
			applies to relevant EWC code							year (tonnes)		
	European Waste Catalogue EWC codes		European Waste Catalogue EWC codes									
			Catalogue EWC codes									
												1
												1
											1	_
SECTION C-TO BE CO	OMPLETED BY ALL WASTE FACILI	TIES (waste transfer stati	ions, Composters. M	laterial recovery faci	ilities etc) EXCEPT LANDFILL SIT	ES						
Is all waste procession info	rastructure as required by your licence an	d approved by the Anency in nia	ce? If no please list wasto	processing infrastructure	required onsite	SELECT				1		
,	,, ,	,,,	,							1		
Is all waste storage infrast	tructure as required by your licence and a	pproved by the Agency in place?	PIf no please list waste sto	rage infrastructure requir	ed on site	SELECT				J		
Does your facility have rel	levant nuisance controls in place?	24				SELECT				1		
Do you maintain a sludge	nagement system in place for your facility register on site?	yr ii no wnyr				SELECT				1		
SECTION D-TO BE CO	OMPLETED BY LANDFILL SITES O	NLY	1									
Table 2 Waste type	and tonnage-landfill only				1							
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								
Non Hazardous	45,000	0	0	Commence								
			0									
	ormation-Landfill only				1							
Table 3 General Inic	ormation-tandilli only											
				Delevis on Doblis		Boodleted data to	X	Laborator and and	A	Total disposal area occupied by	Lined disposal area occupied by	Uniti
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 ashestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year		Lined disposal area occupied by waste	Unlii
Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling		Inert or non-hazardous		Licence permits ashestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	area occupied by	area occupied by	Unlin
	Date landfilling commenced				Inert or non-hazardous		asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	area occupied by waste	area occupied by waste	Unlii
Cell 3 B	Feb-14			Operated		cease landfilling	asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	area occupied by waste	area occupied by waste	Unlii
Cell 3 B Table 4 Environmen Was meterological	Feb-14	Jul-16		Operated		cease landfilling	ashestos No	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	area occupied by waste	area occupied by waste	Unlin
Cell 3 B Table 4 Environmen Was meterological monitoring in compliance with Landfill	Feb-14 Ital monitoring-landfill only	Jul-16 Landfill Manual-Monitoring Star Was Landfill Gas monitored in	No ndards	Operated Public		cease landfilling 01/07/2016 Was topography of the site	No Has the statement under SSA(A)(S) of WMA been	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	area occupied by waste	area occupied by waste	Unlin
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| PRTR# : W0067 | Facility Name : Rathroeen Landfill | Filename : AER 2017 March 2018.xls | Return Year : 2016 |



Guidance to completing the PRTR workbook

PRTR Returns Workbook

Version 1.1

REFERENCE YEAR	2016

1. FACILITY IDENTIFICATION

Parent Company Name	Mayo County Council
Facility Name	Rathroeen Landfill
PRTR Identification Number	W0067
Licence Number	W0067-02

Classes of Activity

I	No.	class_name
ı	-	Refer to PRTR class activities below

Address 1	Rathroeen
Address 2	Ballina
Address 3	
Address 4	
	Мауо
Country	Ireland
Coordinates of Location	-6.11271 52.9597
River Basin District	IEWE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Michael Hegarty
AER Returns Contact Email Address	mhegarty@mayococo.ie
AER Returns Contact Position	Assistant Landfill Manager
AER Returns Contact Telephone Number	0872046722
AER Returns Contact Mobile Phone Number	0872046722
AER Returns Contact Fax Number	09624056
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	6
User Feedback/Comments	In Releases to Air Tab, the figure for Methane is negative. This is due to
	the difference between the Gassim model being used (estimated) by
	Tobins Consulting Engineers in 2008, and the measured figures from
Web Address	the LFG model and flowrates at the site.
TVED Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name				
5(d)	Landfills				
5(c)	Installations for the disposal of non-hazardous waste				
	Landfills				
50.1	General				

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

5. ODEVERTO REGULATIONS (6.1. No. 545 61 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	
used ?	

4. WASTE IMPORTED/ACCEPTED ONTO SITE

Guidance on waste imported/accepted onto site

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

4.1 RELEASES TO AIR

Link to previous years emissions data

PRTR#: W0067 | Facility Name: Rathroeen Landfill | Filename: AER 2017 March 2018.xls | Return Year: 2017 |

29/11/2018 14:11

SECTION A: SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR						Please enter all quantities in			
	POLLUTANT				METHOD		QUANTITY		
					Method Used				
	No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
03		Carbon dioxide (CO2)	E	ESTIMATE		2597198.0	2597198.0	0.0	0.0
01		Methane (CH4)	M	ESTIMATE		-534534.4	-534534.4	0.0	0.0
		* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button							

SECTION B : REMAINING PRTR POLLUTANTS

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

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

Additional Data Requested from Landfill operators

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

andfill:		

Landfill:	Rathroeen Landfill					
Please enter summary data on the quantities of methane flared and / or utilised			Met	hod Used		_
				Designation or	Facility Total Capacity m3	i
	T (Total) kg/Year	M/C/E	Method Code	Description	per hour	i
Total estimated methane generation (as per						i
site model)	594644.6	E	Estimated	Gassim 2.5	N/A	İ
Methane flared	1129179.0	С	Calculated	Landfill Gas Survey 2017		(Total Flaring Capacity)
Methane utilised in engine/s					0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section						i
A above)	-534534.4				N/A	

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE Haz Waste : Address of Next Haz Waste: Name and Licence/Permit No of Transfer Destination European Waste Code Hazard Description of Waste Operation Carrowbrown,headford Road,Galway,Galway,Ireland Within the Country 15 01 02 No 27.84 plastic packaging (Pet & HDPE) R5 м Weighed Offsite in Ireland Barna Waste ,W0106-02 Carrowbrown,headford Road,Galway,Galway,Ireland Within the Country 15 01 02 Weighed Offsite in Ireland Barna Waste ,W0106-02 1.24 plastic packaging (polystyrene) Carrowbrown,headford Road,Galway,Galway,Ireland Oranmore,Galway ,Galway,Galway,Ireland Offsite in Ireland Barna Waste ,W0106-02 Galway Metal ,WFP-11-g-Offsite in Ireland 0005-01 Within the Country 15 01 04 3.64 metallic packaging R4 Within the Country 15 01 04 No 22.42 metallic packaging R5 Weighed Carrowbrown,headford Road,Galway,Galway,Ireland Offsite in Ireland Barna Waste ,W0106-02 Within the Country 15 01 05 1.98 composite packaging (tetra Paks) Weighed Midland Scrap Annagh, Birr, Offally, R42RT68,
Offsite in Ireland Metals, NWCPO-08-01118-02 Ireland Within the Country 16 01 03 16.7 end-of-life tyres R5 Weighed Recyfuel, SA BE 459735458, Zoning Ind Zoning Ind Est, D'Hein, Eingis, B4480, Belgi Est, D'Hein, Eingis, B4480, Belgi Unit 1,Allied Ind Est,Kylemore Rd,Dublin 10,Ireland gases in pressure containers (including 1.1 halons) containing dangerous substances To Other Countries 16 05 04 Weighed McGraths Industrial Turlough, Castlebar, Mayo, Ma Offsite in Ireland Waste, NWCPO-09003002-03 yo, Ireland Within the Country 17 02 01 61.52 wood R3 Weighed gypsum-based construction mater 7.48 than those mentioned in 17 08 01 McGraths Industrial Turlough, Castlebar, Mayo, Ma Offsite in Ireland Waste, NWCPO-09003002-03 yo, Ireland Within the Country 17 08 02 No Weighed Weighed Offsite in Ireland Barna Waste ,W0106-02 Carrowtrown, headford
Road, Galway, Galway, Ireland
Wayo County Countil, D0016- Beleek, Ballina, Mayo
Volume Calculation Offsite in Ireland 01 ,Mayo, Ireland 23.78 paper and cardboard landfill leachate other than those 59345.0 mentioned in 19 07 02 Within the Country 20 01 01 R5 Within the Country 19 07 03 No D9 м Turlough,Castlebar,Mayo,Ma McGraths Industrial Turlough,Castlebar,Mayo,Ma

Offsite in Ireland Waste,MWCPO-09003002-03 yo,Ireland

Stanley Bourke Bourke

Offsite in Ireland Waste, "." d

Waste," d

d Within the Country 20 01 01 91.85 paper and cardboard (cardboard) Weighed Within the Country 20 01 02 No 43.84 glass R5 М Offsite in Ireland Rehab Recycling Ltd, Exempt Cork,..., Ireland Midland Scrap Annagh, Birr, Offally, R42RT68, Offsite in Ireland Metals, NWCPO-08-01118-02 Ireland 9.4 glass (window Glass) R5 Within the Country 20 01 02 Weighed The Old Creamery,Angelsborough,Kill mallock,Limerick,Ireland Weighed Within the Country 20 01 10 16.54 clothes R3 Offsite in Ireland KMK Metals, W0113-Cappinure Ind
Estate Dalingea

Offsite in Ireland KMK Metals W0113-02 Rolliamore Offaly Ireland
Crag Avenue Clondalkin
Industrial Estate Dublin

Offsite in Ireland Greyhound Recycling W0047 22 Dublin Ireland 02,Cappinure Ind Est, Daingean Cappinure Ind Est, Daingean Rd, Tullamore, Offaly, Ireland Rd, Tullamore, Offaly, Ireland fluorescent tubes and other mercury-0.84 containing waste Within the Country 20 01 21 Weighed Within the Country 20 01 25 0.84 edible oil and fat R9 Weighed Enva,W0184-01,Clonminam Greenouge Ind Ind Clonminam Ind Clonminam Ind State Rathcoole, Dublin, Dubl Est, Portlaoise, Laoise, Laoise, Ir Est, Portlaoise, Laoise, Laoise, Ir in, Ireland eland eland eland oil and fat other than those mentioned in 20 2.82 01 25 R9 Offsite in Ireland Rialta,W0192-02 eland Recyfuel,SA BE 459735458.Zoning Ind Unit 1 Allied Inc 459735458,Zoning Ind Zoning Ind Est,D'Hein,Eingis,B4480,Belgi Est,D'Hein,Eingis,B4480,Belgi Est,Kylemore Rd,Dublin 10,Ireland Unit 1,Allied Ind paint, inks, adhesives and resins containing
5.84 dangerous substances D10 To Other Countries 20 01 27 Yes Weighed Abroad Eco Safe Systems.W0054-02 medicines other than those mentioned in 20 0.18 01 31 Within the Country 20 01 3 KMK Metals W0113Cappinure Ind 02 Cappinure Ind Estate, Daingean Rd, Tullamore, Offaly, Ireland Rd, Tullamore, Offaly, Ireland Rd, Tullamore, Offaly, Ireland Rd, Tullamore, Offaly, Ireland Rd, W0192-02, Greenouge Ind Ind Cerenouge Ind Cerenouge Ind Cerenouge Ind Ind Cerenouge Ind Ind Individual Rd, Ireland Rd, Irela batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these 3.70 Datteries
 batteries and accumulators included in 16
 06 01, 16 06 02 or 16 06 03 and unsorted
 batteries and accumulators containing these
 6.58 batteries Within the Country 20 01 33 Yes Weighed Offsite in Ireland KMK Metals, W0113-02 Within the Country 20 01 33 Offsite in Ireland Rialta, W0192-02 discarded electrical and electronic Cappinure Ind equipment other than those mentioned in 160.3 20 01 21, 20 01 23 and 20 01 35 Estate,Daingean Rd,Tullamore,Offaly,Ireland Offsite in Ireland KMK Metals, W0113-02 Within the Country 20 01 36 Weighed discarded electrical and electronic equipment other than those mentioned in Cappinure Ind Estate,Daingean Rd,Tullamore,Offaly,Ireland 0.0 20 01 21, 20 01 23 and 20 01 35 Within the Country 20 01 36 м Weighed Offsite in Ireland KMK Metals, W0113-02 Carrowbrown,headford Offsite in Ireland Barna Waste ,W0106-02 Galway Metal ,WFP-11-g-Offsite in Ireland 0005-01 Road,Galway,Galway,Ireland Oranmore,Galway ,Galway,Galway,Ireland Within the Country 20 01 39 No 36.34 plastics (Hard plastics) R5 М Weighed Within the Country 20 01 40 172.02 metals (scrap metals) Weighed Carrowbrown,headford Road,Galway,Galway,Ireland Within the Country 20 02 01 0.0 biodegradable waste (green waste) Offsite in Ireland Barna Waste ,W0106-02

Offsite in Ireland Rathroeen Landfill, W0067-2 Rathroeen Landfill, Killala

Coolturk Quarries Ltd,Crossmolina,.,Mayo,Irela

Mayo County Councils Area
Offsite in Ireland Offices,EXM

Offsite in Ireland Coolturk Quarries Ltd,.

ceramics other than those mentioned in 17
162.9 01.06

0.0 mixed municipal waste

mixture of concrete, bricks, tiles and

D1

D1

R11a

Weighed

M Weighed

No

Within the Country 20 03 01

Within the Country 20 03 03

Within the Country 17 01 07



A survey of landfill sites to determine the quantity of methane flared and or recovered in utilisation plants for 2017

Please choose from the drop down menu the license number for your site	W0067
Please choose from the drop down menu the name of the landfill site	Rathroeen Landfill
Please enter the number of flares operational at your site in 2017	1
Please enter the number of engines operational at your site in 2017	0
Total methane flared	1,129,179 kg/year
Total methane utilised in engines	0 kg/year

Please note that the closing date for reciept of completed surveys is 31/03/2018

Introduction

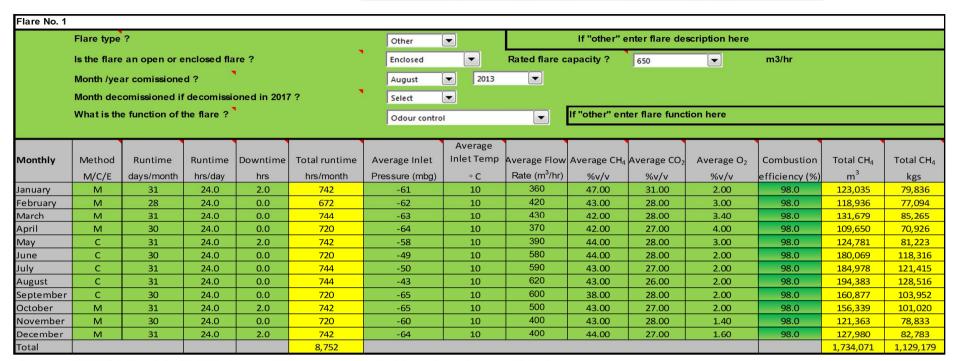
The Office of Environmental Sustainability (OES) of the Environmental Protection Agency acts as the inventory agency in Ireland with responsibility for compiling and reporting national greenhouse gas inventories to the European Commission and the United Nations Framework Convention on Climate Change. In addition to meeting international commitments Ireland's national greenhouse gas inventory informs national agencies and Government departments as they face the challenge to curb emissions and meet Ireland's emission reduction targets under the Effort Sharing Decision (No. 406/2009/EC). The national inventory also informs data suppliers, making them aware of the importance of their contributions to the inventory process and a means of identifying areas where input data may be improved.

It is on this basis that the Environmental Protection Agency is asking landfill operators to partake in this survey so that the most uptodate information on methane flaring and recovery in utilisation plants at landfills sites is used in calculating the contribution of the landfill sector to national greenhouse gas emissions

The Environmental Protection Agency wishes to thank you for partaking in this survey. If you have any questions about the survey and how to complete it please view the "Help sheet" worksheet. If however, your query is not answered by viewing the "Help sheet" worksheet please contact:

LFGProject@epa.ie

Once completed please send the completed file as an attachment clearly stating the name and or license number of the landfill site (e.g. W000 Xanadu landfill_2017) to: LFGProject@epa.ie



Please note: Only fill the "Yearly" table if data is not availabe or cannot be calculated nor estimated on a monthly basis

							Average							
Yearly	Method	Runtime	Runtime	Downtime	Total runtime	Average Inlet	Inlet Temp	Average Flow	Average CH ₄	Average CO ₂	Average O ₂	Combustion	Total CH ₄	Total CH ₄
	M/C/E	days/year	hrs/day	hrs	hrs/year	Pressure (mbg)	∘ C	Rate m³/hr	%v/v	%v/v	%v/v	efficiency (%)	m ³	kgs
2017					0		10					98.0	0	0