Facility Information Summary	
AER Reporting Year	2012
Licence Register Number	W0067-02
Name of site	Rathroeen Landfill
Site Location	Killala Road Ballina County Mayo
NACE Code	
Class/Classes of Activity	
National Grid Reference (6E, 6 N)	

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.

Landfilling of Cell 3A commenced in April 2013, Permanent capping of Cell 2was completeed in May 2013

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.

____Michael Hegarty_____	_____29/03/2013_____
Signature	Date
Group/Facility manager (or nominated, suitably qualified and experienced deputy)	

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Answer all questions and complete all tables where relevant

			Additional information
1	Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If **you do not have** licenced emissions and **do not complete a solvent management plan** (table A4 and A5) you do not need to complete the tables	No	

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 checklist	SELECT	

AGN2

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
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		

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

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Continuous Monitoring

4	Does your site carry out continuous air emissions monitoring?	SELECT	
	If yes please review your continuous monitoring data and report the required fields below in Table 3 and compare it to its relevant Emission Limit Value (ELV)		
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table 3 below	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 4 below	SELECT	

Table A2: Summary of average emissions -continuous monitoring

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

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

Table A3: Abatement system bypass reporting table Bypass protocol

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

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

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

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Solvent use and management on site

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

SELECT

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

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

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

Table A5: Solvent Mass Balance summary

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

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		Additional information
1	Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If **you do not have** licenced emissions you only need to complete table W1 and or W2 for surface water analysis and visual inspections	No
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

Table W1 Surface water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
SW1	upstream	SELECT	DO	12/12/2012		N/A	8.65 @ lab	SELECT	SELECT	
SW1	upstream		Ammonical Nitrogen	12/12/2012			0.342	mg/L		
SW1	upstream		BOD	12/12/2012			1	mg/L		
SW1	upstream		COD	12/12/2012			17	mg/L		
SW1	upstream		Chloride	12/12/2012			46.7	mg/L		
SW1	upstream		Conductivity	12/12/2012			0.806	mg/L		
SW1	upstream		pH	12/12/2012			7.3	mg/L		
SW1	upstream		Total Suspended Solids	12/12/2012			24	mg/L		
SW1	upstream		Sulphate	12/12/2012			53.8	mg/L		
SW1	upstream		DO	18.7.12			8.96	% sat		
SW1	upstream		Ammonical Nitrogen	18.7.12			0.045	mg/l N		
SW1	upstream		BOD	18.7.12			1	mg/l O2		
SW1	upstream		COD	18.7.12			49	mg/l O2		
SW1	upstream		Chloride	18.7.12			28.3	mg/l Cl		
SW1	upstream		Conductivity	18.7.12			0.608	mS/cm		
SW1	upstream		pH	18.7.12			7.4	pH units		
SW1	upstream		Total Suspended Solids	18.7.12			3	mg/l		
SW1	upstream		Total Phosphourous	18.7.12			0.08	mg/l P		
SW1	upstream		Cadmium	18.7.12			0.5	ug/l		
SW1	upstream		Calcium	18.7.12			128	mg/l		
SW1	upstream		Chromium	18.7.12			0.5	ug/l		
SW1	upstream		Copper	18.7.12			1	ug/l		
SW1	upstream		Iron	18.7.12			706	ug/l		
SW1	upstream		Lead	18.7.12			0.5	ug/l		
SW1	upstream		Magnesium	18.7.12			8	mg/l		
SW1	upstream		Manganeese	18.7.12			54	ug/l		
SW1	upstream		Mercury	18.7.12			0.1	ug/l		
SW1	upstream		Potassium	18.7.12			6	mg/l		
SW1	upstream		Sulphate	18.7.12			68.9	mg/l SO4		
SW1	upstream		Sodium	18.7.12			17	mg/l		
SW1	upstream		Alkalinity	18.7.12			260	mg/l CaCO3		
SW1	upstream		Zinc	18.7.12			5	ug/l		
SW1	upstream		Nickel	18.7.12			4	ug/l		
SW1	upstream		DO	30.5.12			5.08	% sat		
SW1	upstream		Ammonical Nitrogen	30.5.12			0.02	mg/l N		
SW1	upstream		BOD	30.5.12			1	mg/l O2		
SW1	upstream		COD	30.5.12			49	mg/l O2		
SW1	upstream		Chloride	30.5.12			32.3	mg/l Cl		
SW1	upstream		Conductivity	30.5.12			0.644	mS/cm		
SW1	upstream		pH	30.5.12			7.7	pH units		
SW1	upstream		Total Suspended Solids	30.5.12			72	mg/l		
SW1	upstream		Sulphate	30.5.12			46.1	mg/l SO4		
SW1	upstream		DO	22.02.12				% sat		
SW1	upstream		Ammonical Nitrogen	22.02.12			0.034	mg/l N		
SW1	upstream		BOD	22.02.12			1	mg/l O2		
SW1	upstream		COD	22.02.12			58	mg/l O2		
SW1	upstream		Chloride	22.02.12			26	mg/l Cl		
SW1	upstream		Conductivity	22.02.12			0.51	mS/cm		
SW1	upstream		pH	22.02.12			7.5	pH units		
SW1	upstream		Total Suspended Solids	22.02.12			5	mg/l		
SW2	onsite		DO	12.12.12			8.56	mg/l		

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SW2	onsite		Ammonical Nitrogen	12.12.12			0.137	mg/l N		
SW2	onsite		BOD	12.12.12			1	mg/l O2		
SW2	onsite		COD	12.12.12			20	mg/l O2		
SW2	onsite		Chloride	12.12.12			32.7	mg/l Cl		
SW2	onsite		Conductivity	12.12.12			0.663	mS/cm		
SW2	onsite		pH	12.12.12			7.3	pH units		
SW2	onsite		Total Suspended Solids	12.12.12			3	mg/l		
SW2	onsite		Sulphate	12.12.12			44.1	mg/l SO4		
SW2	onsite		DO	18.7.12			8.94	mg/l		
SW2	onsite		Ammonical Nitrogen	18.7.12			7.07	mg/l N		
SW2	onsite		BOD	18.7.12			1	mg/l O2		
SW2	onsite		COD	18.7.12			37	mg/l O2		
SW2	onsite		Chloride	18.7.12			43.3	mg/l Cl		
SW2	onsite		Conductivity	18.7.12			0.825	mS/cm		
SW2	onsite		pH	18.7.12			7.7	pH units		
SW2	onsite		Total Suspended Solids	18.7.12			3	mg/l		
SW2	onsite		Total Phosphourous	18.7.12			0.05	mg/l P		
SW2	onsite		Cadmium	18.7.12			0.5	ug/l		
SW2	onsite		Calcium	18.7.12			136	mg/l		
SW2	onsite		Chromium	18.7.12			0.5	ug/l		
SW2	onsite		Copper	18.7.12			1	ug/l		
SW2	onsite		Iron	18.7.12			272	ug/l		
SW2	onsite		Lead	18.7.12			0.5	ug/l		
SW2	onsite		Magnesium	18.7.12			18	mg/l		
SW2	onsite		Manganeese	18.7.12			119	ug/l		
SW2	onsite		Mercury	18.7.12			0.1	ug/l		
SW2	onsite		Potassium	18.7.12			16	mg/l		
SW2	onsite		Sulphate	18.7.12			68.6	mg/l SO4		
SW2	onsite		Sodium	18.7.12			33	mg/l		
SW2	onsite		Alkalinity	18.7.12			336	mg/l CaCO3		
SW2	onsite		Zinc	18.7.12			5	ug/l		
SW2	onsite		Nickel	18.7.12			5	ug/l		
SW2	onsite		DO	30.5.12			4.69	mg/l		
SW2	onsite		Ammonical Nitrogen	30.5.12			2.46	mg/l N		
SW2	onsite		BOD	30.5.12			1	mg/l O2		
SW2	onsite		COD	30.5.12			48	mg/l O2		
SW2	onsite		Chloride	30.5.12			53.8	mg/l Cl		
SW2	onsite		Conductivity	30.5.12			0.901	mS/cm		
SW2	onsite		pH	30.5.12			7.7	pH units		
SW2	onsite		Total Suspended Solids	30.5.12			46	mg/l		
SW2	onsite		Sulphate	30.5.12			47	mg/l SO4		
SW3	downstream		DO	12.12.12			8.69	mg/l		
SW3	downstream		Ammonical Nitrogen	12.12.12			3.31	mg/l N		
SW3	downstream		BOD	12.12.12			1	mg/l O2		
SW3	downstream		COD	12.12.12			10	mg/l O2		
SW3	downstream		Chloride	12.12.12			27.3	mg/l Cl		
SW3	downstream		Conductivity	12.12.12			0.886	mS/cm		
SW3	downstream		pH	12.12.12			7.5	pH units		
SW3	downstream		Total Suspended Solids	12.12.12			3	mg/l		
SW3	downstream		Sulphate	12.12.12			38.7	mg/l SO4		
SW3	downstream		DO	18.7.12			8.9	mg/l		
SW3	downstream		Ammonical Nitrogen	18.7.12			1.26	mg/l N		
SW3	downstream		BOD	18.7.12			1	mg/l O2		
SW3	downstream		COD	18.7.12			18	mg/l O2		
SW3	downstream		Chloride	18.7.12			31	mg/l Cl		
SW3	downstream		Conductivity	18.7.12			0.74	mS/cm		
SW3	downstream		pH	18.7.12			8	pH units		
SW3	downstream		Total Suspended Solids	18.7.12			4	mg/l		
SW3	downstream		Total Phosphourous	18.7.12			0.05	mg/l P		
SW3	downstream		Cadmium	18.7.12			0.5	ug/l		
SW3	downstream		Calcium	18.7.12			131	mg/l		
SW3	downstream		Chromium	18.7.12			0.6	ug/l		
SW3	downstream		Copper	18.7.12			1	ug/l		
SW3	downstream		Iron	18.7.12			313	ug/l		
SW3	downstream		Lead	18.7.12			0.5	ug/l		
SW3	downstream		Magnesium	18.7.12			11	mg/l		
SW3	downstream		Manganeese	18.7.12			23	ug/l		
SW3	downstream		Mercury	18.7.12			0.1	ug/l		
SW3	downstream		Potassium	18.7.12			8	mg/l		

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SW3	downstream		Sulphate	18.7.12			46.4	mg/l SO4		
SW3	downstream		Sodium	18.7.12			19	mg/l		
SW3	downstream		Alkalinity	18.7.12			662	mg/l CaCO3		
SW3	downstream		Zinc	18.7.12			5	ug/l		
SW3	downstream		Nickel	18.7.12			3	ug/l		
SW3	downstream		DO	30.5.12			6.42	mg/l		
SW3	downstream		Ammonical Nitrogen	30.5.12			0.045	mg/l N		
SW3	downstream		BOD	30.5.12			1	mg/l O2		
SW3	downstream		COD	30.5.12			37	mg/l O2		
SW3	downstream		Chloride	30.5.12			36	mg/l Cl		
SW3	downstream		Conductivity	30.5.12			0.752	mS/cm		
SW3	downstream		pH	30.5.12			8.2	pH units		
SW3	downstream		Total Suspended Solids	30.5.12			7	mg/l		
SW3	downstream		Sulphate	30.5.12			33.2	mg/l SO4		
SW4	downstream		Ammonical Nitrogen	12.12.12			7.46	mg/l N		
SW4	downstream		BOD	12.12.12			1	mg/l O2		
SW4	downstream		COD	12.12.12			10	mg/l O2		
SW4	downstream		Chloride	12.12.12			35.7	mg/l Cl		
SW4	downstream		Conductivity	12.12.12			0.952	mS/cm		
SW4	downstream		pH	12.12.12			7.4	pH units		
SW4	downstream		Total Suspended Solids	12.12.12			10	mg/l		
SW4	downstream		Sulphate	12.12.12			61.3	mg/l SO4		
SW4	downstream		DO	18.7.12			8.97	% sat		
SW4	downstream		Ammonical Nitrogen	18.7.12			1.17	mg/l N		
SW4	downstream		BOD	18.7.12			1	mg/l O2		
SW4	downstream		COD	18.7.12			23	mg/l O2		
SW4	downstream		Chloride	18.7.12			30.9	mg/l Cl		
SW4	downstream		Conductivity	18.7.12			0.737	mS/cm		
SW4	downstream		pH	18.7.12			8	pH units		
SW4	downstream		Total Suspended Solids	18.7.12			4	mg/l		
SW4	downstream		Total Phosphourous	18.7.12			0.05	mg/l P		
SW4	downstream		Cadmium	18.7.12			0.5	ug/l		
SW4	downstream		Calcium	18.7.12			144	mg/l		
SW4	downstream		Chromium	18.7.12			0.5	ug/l		
SW4	downstream		Copper	18.7.12			1	ug/l		
SW4	downstream		Iron	18.7.12			87	ug/l		
SW4	downstream		Lead	18.7.12			0.5	ug/l		
SW4	downstream		Magnesium	18.7.12			12	mg/l		
SW4	downstream		Manganeese	18.7.12			9	ug/l		
SW4	downstream		Mercury	18.7.12			0.1	ug/l		
SW4	downstream		Potassium	18.7.12			8	mg/l		
SW4	downstream		Sulphate	18.7.12			46	mg/l SO4		
SW4	downstream		Sodium	18.7.12			22	mg/l		
SW4	downstream		Alkalinity	18.7.12			339	mg/l CaCO3		
SW4	downstream		Total Oxidised Nitrogen	18.7.12				mg/l N		
SW4	downstream		Zinc	18.7.12			5	ug/l		
SW4	downstream		List 1 & 2 Organics	18.7.12						
SW4	downstream		Nickel	18.7.12			3	ug/l		
SW4	downstream		DO	30.5.12			5.29	% sat		
SW4	downstream		Ammonical Nitrogen	30.5.12			4.9	mg/l N		
SW4	downstream		BOD	30.5.12			1	mg/l O2		
SW4	downstream		COD	30.5.12			53	mg/l O2		
SW4	downstream		Chloride	30.5.12			52.6	mg/l Cl		
SW4	downstream		Conductivity	30.5.12			0.882	mS/cm		
SW4	downstream		pH	30.5.12			7.6	pH units		
SW4	downstream		Total Suspended Solids	30.5.12			6	mg/l		
SW4	downstream		Sulphate	30.5.12			47.3	mg/l SO4		
SW5	downstream		DO	12.12.12			8.63	mg/l		
SW5	downstream		Ammonical Nitrogen	12.12.12			2.27	mg/l N		
SW5	downstream		BOD	12.12.12			1	mg/l O2		
SW5	downstream		COD	12.12.12			10	mg/l O2		
SW5	downstream		Chloride	12.12.12			26.3	mg/l Cl		
SW5	downstream		Conductivity	12.12.12			0.879	mS/cm		
SW5	downstream		pH	12.12.12			7.9	pH units		
SW5	downstream		Total Suspended Solids	12.12.12			3	mg/l		
SW5	downstream		Sulphate	12.12.12			33.5	mg/l SO4		
SW5	downstream									
SW5	downstream		DO	18.7.12			8.98	mg/l		
SW5	downstream		Ammonical Nitrogen	18.7.12			0.257	mg/l N		
SW5	downstream		BOD	18.7.12			1	mg/l O2		
SW5	downstream		COD	18.7.12			10	mg/l O2		
SW5	downstream		Chloride	18.7.12			30.9	mg/l Cl		
SW5	downstream		Conductivity	18.7.12			0.726	mS/cm		
SW5	downstream		pH	18.7.12			8.2	pH units		
SW5	downstream		Total Suspended Solids	18.7.12			2	mg/l		
SW5	downstream		Total Phosphourous	18.7.12			0.05	mg/l P		
SW5	downstream		Cadmium	18.7.12			0.5	ug/l		
SW5	downstream		Calcium	18.7.12			141	mg/l		
SW5	downstream		Chromium	18.7.12			0.5	ug/l		
SW5	downstream		Copper	18.7.12			1	ug/l		
SW5	downstream		Iron	18.7.12			82	ug/l		
SW5	downstream		Lead	18.7.12			0.5	ug/l		
SW5	downstream		Magnesium	18.7.12			12	mg/l		

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SW5	downstream		Manganeese	18.7.12			8	ug/l		
SW5	downstream		Mercury	18.7.12			0.1	ug/l		
SW5	downstream		Potassium	18.7.12			8	mg/l		
SW5	downstream		Sulphate	18.7.12			42.9	mg/l SO4		
SW5	downstream		Sodium	18.7.12			21	mg/l		
SW5	downstream		Alkalinity	18.7.12			340	mg/l CaCO3		
SW5	downstream		Total Oxidised Nitrogen	18.7.12				mg/l N		
SW5	downstream		Zinc	18.7.12			5	ug/l		
SW5	downstream		List 1 & 2 Organics	18.7.12						
SW5	downstream		Nickel	18.7.12			3	ug/l		
SW5	downstream		Total Ammonia as N	18.7.12				mg/l		
SW5	downstream									
SW5	downstream		DO	30.5.12			6.06	mg/l		
SW5	downstream		Ammonical Nitrogen	30.5.12			0.032	mg/l N		
SW5	downstream		BOD	30.5.12			1	mg/l O2		
SW5	downstream		COD	30.5.12			22	mg/l O2		
SW5	downstream		Chloride	30.5.12			35.6	mg/l Cl		
SW5	downstream		Conductivity	30.5.12			0.754	mS/cm		
SW5	downstream		pH	30.5.12			8.3	pH units		
SW5	downstream		Total Suspended Solids	30.5.12			2	mg/l		
SW5	downstream		Sulphate	30.5.12			32.6	mg/l SO4		
SW5	downstream									
SW5	downstream									
SW5	downstream									
	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 yes please provide brief details in the comment section of Table W3 below		SELECT	Additional information
4	Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box	External /Internal Lab Quality checklist / Assessment of results checklist	SELECT	

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 therof[Note 2]	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT			

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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Continuous monitoring

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

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	Monitoring Equipment downtime (hours)	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: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

Bund/Pipeline testing template Lic No: P0xxx-01 Year 2012

Bund testing — dropdown menu click to see options

			Additional information
1	Are you required by your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below listing all **new bunds and containment structures** on site, **in addition to all bunds which failed** the integrity test-**all bunding structures which failed including mobile bunds must be listed in the table below**	Yes	
2	Please provide integrity testing frequency period	3 years	
3	Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)	No	
4	How many bunds are on site?	3	
5	How many of these bunds have been tested witin the required test schedule?	3	
6	How many mobile bunds are on site?	0	
7	Are the mobile bunds included in the bund test schedule?	SELECT	
8	How many of these mobile bunds have been tested witin the required test schedule?		
9	How many sumps on site are included in the integrity test schedule?	0	
10	How many of these sumps are integrity tested within the test schedule?	0	
	Please list any sump integrity failures in table B1		
11	Do all sumps and chambers have high level liquid alarms?	Yes	
12	If yes to Q11 are these failsafe systems included in a maintenance and testing programme?	Yes	

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

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
Leachate Lagoon	reinforced concrete		Leachate			Hydraulic test		2009	Yes	Pass		SELECT		
Chemstore bund	prefabricated		Paint spills			Hydraulic test		2008	Yes	Pass		SELECT		

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

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

Pipeline/underground structure testing

1	Are you required by your licence to undertake integrity testing on underground structures e.g. pipelines or sumps etc ? if yes please fill out table 2 below listing all underground structures and pipelines on site **which failed the integrity test**	SELECT
2	Please provide integrity testing frequency period	SELECT

Table B2: Summary details of pipeline/underground structures integrity test

Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

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

Groundwater/Soil monitoring template	Lic No:	P0xxx-01	Year	2012

			Comments
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes	
2	Are you required to carry out soil monitoring as part of your licence requirements?	no	
3	Do you extract groundwater for use on site? If yes please specify use in comment section	no	
4	Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12	no	
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 summarise 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	

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
	MW2	D.O.	accredited laboratory	Quarterley	6.56	5.45	mg/l				SELECT
	MW2	pH	accredited laboratory	Quarterley	7.2	7.07					
	MW2	Conductivity	accredited laboratory	Quarterley	0.968	0.85	mS/cm				
	MW2	Ammonical Nitrogen	accredited laboratory	Quarterley	0.46	0.23	mg/l N				
	MW2	Chloride	accredited laboratory	Quarterley	34.3	31.53	mg/l Cl				
	MW2	Total Organic Carbon	accredited laboratory	Quarterley	4.71	4.53	mg/l C				
	MW2	Total Coliforms	accredited laboratory	Quarterley	189	96.33	No/100ml				
	MW2	Faecal Coliforms	accredited laboratory	Quarterley	1	1.00	No/100ml				
	MW2	Sodium	accredited laboratory	Quarterley	23	20.67	mg/l				
	MW2	Potassium	accredited laboratory	Quarterley	4	3.67	mg/l				
	MW2	Iron	accredited laboratory	Quarterley	173	173.00	ug/l				

Groundwater/Soil monitoring template			Lic No:	P0xxx-01		Year	2012				
	MW2	Lead	accredited laboratory	Quarterley	2	2.00	ug/l				
	MW2	Magnesium	accredited laboratory	Annual	18	18.00	mg/l				
	MW2	Manganeese	accredited laboratory	Annual	813	813.00	ug/l				
	MW2	Mercury	accredited laboratory	Annual	0.1	0.10	ug/l				
	MW2	Total Alkalinity	accredited laboratory	Annual	384	384.00	mg/l CaCO3				
	MW2	Sulphate	accredited laboratory	Annual	61.5	58.57	mg/l SO4				
	MW2	Total Phosphorous	accredited laboratory	Annual	0.05	0.05	mg/l P				
	MW2	Zinc	accredited laboratory	Annual	12	12.00	ug/l				
	MW2	Flouride	accredited laboratory	Annual	0.6	0.60	mg/l F				
	MW2	Calcium	accredited laboratory	Annual	145	146.00	mg/l				
	MW2	Cadmium	accredited laboratory	Annual	0.5	0.50	ug/l				
	MW2	Copper	accredited laboratory	Annual	9	9.00	ug/l				
	MW2	Cyanide	accredited laboratory	Annual	0.01	0.01	mg/l CN				
	MW2	Boron	accredited laboratory	Annual	45	45.00	ug/l				
	MW2	Chromium	accredited laboratory	Quarterley	0.6	0.60	ug/l				
	MW2	Total Nickel	accredited laboratory	Annual	0.002	0.00	mg/l				
	MW2	SVOC	accredited laboratory	Annual	1	1.00	ug/l				
	MW2	VOC	accredited laboratory	Annual	1	1.00	ug/l				
	MW2	Pesticides (OCP)	accredited laboratory	Annual	4	4.00	ng/l				
	MW2			Annual							
							SELECT				SELECT

.+ where average indicates arithmetic mean

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

Table 2: Downgradient Groundwater monitoring results

Groundwater/Soil monitoring template					Lic No: P0xxx-01				Year 2012		
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	% change in average concentration previous year +/-	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
	MW3	Temp.	accredited laboratory	Quarterley							SELECT
	MW3	D.O.	accredited laboratory	Quarterley	6.39	5.09	mg/l				
	MW3	pH	accredited laboratory	Quarterley	6.9	6.80					
	MW3	Conductivity	accredited laboratory	Quarterley	0.99	0.93	mS/cm				
	MW3	Ammonical Nitrogen	accredited laboratory	Quarterley	0.31	0.20	mg/l N				
	MW3	Total Ox Nitrogen	accredited laboratory	Annual	21.5		mg/l N				
	MW3	Chloride	accredited laboratory	Quarterley	21.5	19.87	mg/l Cl				
	MW3	Total Organic Carbon	accredited laboratory	Quarterley	3.23	2.96	mg/l C				
	MW3	Mercury	accredited laboratory	Annual	0.1	0.03	ug/l				
	MW3	Faecal Coliforms	accredited laboratory	Quarterley	2	1.33	No/100ml				
	MW3	Total Coliforms	accredited laboratory	Quarterley	37	23.33	No/100ml				
	MW3	Sodium	accredited laboratory	Quarterley	15	14.33	mg/l				
	MW3	Potassium	accredited laboratory	Quarterley	6	5.33	mg/l				
	MW3	Total Phosphorous	accredited laboratory	Annual	0.05	0.05	mg/l P				
	MW3	Boron	accredited laboratory	Annual	48	48	ug/l				
	MW3	Cadmium	accredited laboratory	Annual	0.5	0.5	ug/l				
	MW3	Calcium	accredited laboratory	Annual	197	197	mg/l				
	MW3	Chromium	accredited laboratory	Annual	6	6	ug/l				
	MW3	Copper	accredited laboratory	Annual	8	8	ug/l				
	MW3	Iron	accredited laboratory	Annual	6265	6265	ug/l				
	MW3	Lead	accredited laboratory	Annual	0.5	0.5	ug/l				
	MW3	Magnesium	accredited laboratory	Annual	11	11	mg/l				

Groundwater/Soil monitoring template					Lic No:	P0xxx-01		Year	2012		
	MW3	Manganeese	accredited laboratory	Annual	296	296	ug/l				
	MW3	Total Nickel	accredited laboratory	Annual	0.04	0.04	mg/l				
	MW3	Zinc	accredited laboratory	Annual	5	5	ug/l				
	MW3	Total Alkalinity	accredited laboratory	Annual	472	472	mg/l CaCO3				
	MW3	Sulphate	accredited laboratory	Quarterley	81.6	69.87	mg/l SO4				
	MW3	Flouride	accredited laboratory	Annual	0.3	0.3	mg/l F				
	MW3	Cyanide	accredited laboratory	Annual	0.01	0.01	mg/l CN				
	MW3	SVOC	accredited laboratory	Annual	4	4	ug/l				
	MW3	VOC	accredited laboratory	Annual	1	1	ug/l				
	MW3	Pesticides (OCP)	accredited laboratory	Annual	4	4	ng/l				
							SELECT				SELECT

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

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

Surface water EQS

Groundwater regulations GTV's

Drinking water (private supply) standards

Drinking water (public supply) standards

Groundwater/Soil monitoring template Lic No: P0xxx-01 Year 2012

Table 3: Soil results

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

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

	Environmental Liabilities template	Lic No:	P0xxx-01	Year	2012

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

			Commentary
1	ELRA initial agreement status	Submitted and agreed by EPA	
2	ELRA review status	Review required and not completed;	
3	Amount of Financial Provision cover required as determined by the latest ELRA	8695000	
4	Financial Provision for ELRA status	Required but not submitted	
5	Financial Provision for ELRA - amount of cover	8695000	
6	Financial Provision for ELRA - type	nsurance with Environmental Impairment Liability cover,	
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	Review required and not completed	
10	Financial Provision for Closure status	Submitted and agreed by EPA	
11	Financial Provision for Closure - amount of cover	Specify	
12	Financial Provision for Closure - type	SELECT	
13	Financial provision for Closure expiry date	Enter expiry date	

Environmental Management Programme/Continuous Improvement Programme template

Lic No: P0xxx-01 Year 2012

	Highlighted cells contain dropdown menu click to view		Additional Information
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes	
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes	

Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Reduction of emissions to Air	Reduce odours feom Cell 2	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:W0067-02 Year 2012

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

Table N1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA_{eq}	LA_{90}	LA_{10}	LA_{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is site compliant with noise limits (day/evening/night)?
28/08/2012	13.25-13.55	N1		44	40	46		No	SELECT	Road traffic	SELECT
28/08/2012	12.45-13.15	N4		49	44	52		No		Road traffic	
28/08/2012	14.04-14.34	N6		53	45	56		No		Road traffic	
28/08/2012	14.42-15.12	N7		54	43	58		No		Road traffic	
28/08/2012	23.56-00.26	N1		44	40	53		No		Road traffic	
28/08/2012	23.20-23.50	N4		45	42	49		No		Road traffic	
28/08/2012	22.43-23.13	N6		46	44	52		No		Road traffic	
28/08/2012	22.00-22.30	N7		45	40	49		No		Road traffic	

*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)

Resource Usage/Energy efficiency summary	Lic No:	P0xxx-01	Year	2012

			Additional information
1	When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below		
2	Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information	SEAI - Large Industry Energy Network (LIEN)	no
3	Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information		no

Table R1 Energy usage on site

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)				
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	125350	152750		
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	9107	87740		
Natural gas (CMN)				
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 on site

					Water Emissions	Water Consumption	
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Volume Discharged back to environment(m^3yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	510	333					
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)					
Non-Hazardous (Tonnes)					

Resource Usage/Energy efficiency summary Lic No: P0xxx-01 Year 2012

Table R4: Energy Audit finding recommendations

Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
			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 template

Lic No: P0xxx-01 Year 2012

Complaints

Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below	SELECT	Additional information

Table 1 Complaints summary

Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action< 20 words	Resolution status	Resolution date	Further information
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	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	

Incidents

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

*For information on how to report and what constitutes an incident	What is an incident

Table 2 Incidents summary

Date of occurrence	Incident nature	Location of occurrence	Incident category*please refer to guidance	Receptor	Cause of incident	Other cause(please specify)	Activity in progress at time of incident	Communication	Occurrence	Corrective action<20 words	Preventative action <20 words	Resolution status	Resolution date	Liklihood of reoccurence
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT

Total number of incidents current year	
Total number of incidents previous year	
% reduction/ increase	

WASTE SUMMARY	Lic No:	P0xxx-01	Year	2012
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES		PRTR facility logon	dropdown list click to see options	

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

			Additional Information
1	Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility ?; (waste generated within your boundaries is to be captured through PRTR reporting) If yes please enter details in table 1 below	No	
2	Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information	No	
3	Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information	No	

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

Licenced annual tonnage limit for your site (total tonnes/annum)	EWC code European Waste Catalogue EWC codes	Source of waste accepted	Description of waste accepted **Please enter an accurate and detailed description - which** 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 -

SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES

4	Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite	SELECT	
5	Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site	SELECT	
6	Does your facility have relevant nuisance controls in place?	SELECT	
7	Do you have an odour management system in place for your facility? If no why?	SELECT	
8	Do you maintain a sludge register on site?	SELECT	

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type and tonnage-landfill only

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments
Non Hazardous	45,000	39,800		
			37,000	

Table 3 General information-Landfill only

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area	Comments on liner type
										m2	m2	m2	
Cell 3 A	23-Apr-13		Yes	Public	Non Hazardous	Aug-13	No	No	No	14000	14000	0	

WASTE SUMMARY	Lic No:	P0xxx-01	Year	2012

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

Was meterological monitoring in compliance with Landfill Directive (LD) standard in reporting year +	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments
yes	yes	yes	yes	no	no	Yes	Yes	

.+ please refer to Landfill Manual linked above for relevant Landfill Directive monitoring standards

Table 5 Capping-Landfill only

Area uncapped*	Area with temporary cap	Area with final cap to LD Standard m2 ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					
14000	4500	58000	0	58000	1 mm lldpe and soils	

*please note this includes daily cover area

Table 6 Leachate-Landfill only

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

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments
24967							

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
307104	nil	nil	Yes	nil

Environmental Protection Agency

A survey of landfill sites to determine the quantity of methane flared and or recovered in utilisation plants for 2012

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 2012	1
Please enter the number of engines operational at your site in 2012	0
Total methane flared	307,104 kg/year
Total methane utilised in engines	0 kg/year

Please note that the closing date for reciept of completed surveys is 31/03/2013

Introduction

The Office of Climate Licensing and Resource Use (OCLR) 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 targets under the Kyoto Protocol. 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 waste 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_2012) to:
LFGProject@epa.ie

	to be filled in by licensee		calculated by spreadsheet	

Flare No. 1

Flare type ?	Other	**If "other" enter flare description here**	
Is the flare an open or enclosed flare ?	Enclosed	**Rated flare capacity ?**	300 **m3/hr**
Month /year comissioned ?	August 2002		
Month decomissioned if decomissioned in 2012 ?	Select		
What is the function of the flare ?	Odour control	**If "other" enter flare function here**	

Monthly	Method M/C/E	Runtime days/month	Runtime hrs/day	Downtime hrs	Total runtime hrs/month	Average Inlet Pressure (mbg)	Average Flow Rate (m^3/hr)	Average CH_4 %v/v	Average CO_2 %v/v	Average O_2 %v/v	Combustion efficiency (%)	Total CH_4 m^3	Total CH_4 kgs
January	M	31	24.0	2.0	742	-75	120	60.00	35.00	1.00	98.0	52,356	33,473
February	M	28	24.0	2.0	670	-82	120	60.00	34.00	1.00	98.0	47,275	30,000
March	M	31	24.0	4.0	740	-53	120	41.00	30.00	2.00	98.0	35,680	23,347
April	M	30	24.0	2.0	718	-43	125	41.00	25.00	2.00	98.0	36,062	23,842
May	M	31	24.0	2.0	742	-43	130	39.00	28.00	2.00	98.0	36,867	24,375
June	M	30	24.0	2.0	718	-38	135	39.00	26.00	2.00	98.0	37,047	24,620
July	M	31	24.0	2.0	742	-35	140	39.00	25.00	1.50	98.0	39,703	26,466
August	M	31	24.0	4.0	740	-30	150	35.00	30.00	1.10	98.0	38,073	25,509
September	M	30	24.0	2.0	718	-40	145	38.00	31.00	1.80	98.0	38,771	25,712
October	M	31	24.0	2.0	742	-50	135	38.00	28.00	1.90	98.0	37,303	24,485
November	M	30	24.0	4.0	716	-60	130	36.00	19.00	2.00	98.0	32,839	21,331
December	M	31	24.0	2.0	742	-35	130	38.00	25.00	2.00	98.0	35,922	23,945
Total					8,730							467,896	307,104

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

Yearly	Method M/C/E	Runtime days/year	Runtime hrs/day	Downtime hrs	Total runtime hrs/year	Average Inlet Pressure (mbg)	Average Flow Rate m^3/hr	Average CH_4 %v/v	Average CO_2 %v/v	Average O_2 %v/v	Combustion efficiency (%)	Total CH_4 m^3	Total CH_4 kgs
2012					0						98.0	0	0

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.15

REFERENCE YEAR	2012

1. FACILITY IDENTIFICATION

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

Waste or IPPC Classes of Activity

No.	class_name
3.1	Deposit on, in or under land (including landfill).
3.13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
3.5	Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.
4.13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.

Address 1	Rathroeen
Address 2	Ballina
Address 3	Co Mayo
Address 4	
	Mayo
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	Senior Executive Technician
AER Returns Contact Telephone Number	09675095
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	
Web Address	

2. PRTR CLASS ACTIVITIES

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

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

Is it applicable?	
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) ?	

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

4.1 RELEASES TO AIR

Link to previous years emissions data

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
01	Methane (CH4)	M	OTH		534323.0	534323.0	0.0	0.0
03	**Carbon dioxide (CO2)**	M	OTH		3675057.0	3675057.0	0.0	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO 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	0.0

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

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

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

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

Additional Data Requested from Landfill operators

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

Landfill: Rathroeen Landfill

Please enter summary data on the quantities of methane flared and / or utilised			Method Used			
	T (Total) kg/Year	**M/C/E**	**Method Code**	**Designation or Description**	**Facility Total Capacity m3 per hour**	
Total estimated methane generation (as per site model)	841427.0	E	E	Designation or Description	N/A	
Methane flared	307104.0	E	E	Designation or Description	300.0	(Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section A above)	534323.0	C	E	Designation or Description	N/A	

Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	15 01 02	No	29.38	plastic packaging (Pet & HDPE)	R5	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	15 01 02	No	1.54	plastic packaging (polystyrene)	R5	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	15 01 05	No	5.54	composite packaging (tetra Paks)	R5	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	16 01 03	No	16.7	end-of-life tyres	R5	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Carrowbrown,headford Road,Galway,Galway,Ireland		
To Other Countries	16 05 04	Yes	1.78	gases in pressure containers (including halons) containing dangerous substances	D10	M	Weighed	Abroad	Eco Safe Systems,W0054-02	Unit 1,Allied Ind Est,Kylemore Rd,Dublin 10,Ireland	Recyfuel,SA BE 459735458,Zoning Ind Est,D'Hein,Eingis,B4480,Belgium	Zoning Ind Est,D'Hein,Eingis,B4480,Belgium
Within the Country	17 02 01	No	1084.0	wood	R3	M	Weighed	Offsite in Ireland	Rathroeen Landfill,W0067-2	Rathroeen Landfill,Killala Road,Ballina,Ballina,Ireland		
Within the Country	17 08 02	No	15.76	gypsum-based construction materials other than those mentioned in 17 08 01	R5	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	19 07 03	No	0.0	landfill leachate other than those mentioned in 19 07 02	D9	M	Volume Calculation	Offsite in Ireland	Mayo County Council,D0016-01	Beleek,Ballina,Mayo ,Mayo,Ireland		
Within the Country	20 01 01	No	153.2	paper and cardboard (paper)	R5	M	Weighed	Offsite in Ireland	Stanley Bourke,CW050	Clogher,Westport,Mayo,Mayo,Ireland		
Within the Country	20 01 01	No	96.64	paper and cardboard (cardboard)	R5	M	Weighed	Offsite in Ireland	Stanley Bourke,CW050	Clogher,Westport,Mayo,Mayo,Ireland		
Within the Country	20 01 02	No	62.86	glass	R5	M	Weighed	Offsite in Ireland	Repak,Exempt	Cork,.,.,.,Ireland		
Within the Country	20 01 02	No	9.5	glass (window Glass)	R5	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	20 01 10	No	18.82	clothes	R3	M	Weighed	Offsite in Ireland	Textile Recycling,WPR 14	Belgard Road,Tallaght,Tallaght,Dublin ,Ireland		
Within the Country	20 01 21	Yes	0.64	fluorescent tubes and other mercury-containing waste	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-02	Cappinure Ind Estate,Daingean Rd,Tullamore,Offaly,Ireland	KMK Metals,W0113-02,Cappinure Ind Est,Daingean Rd,Tullamore,Offaly,Ireland	Cappinure Ind Est,Daingean Rd,Tullamore,Offaly,Ireland
Within the Country	20 01 25	No	1.14	edible oil and fat	R9	M	Weighed	Offsite in Ireland	Greyhound Recycling,W0047	Crag Avenue,Clondalkin Industrial Estate,Dublin 22,Dublin ,ireland		
Within the Country	20 01 26	Yes	1.78	oil and fat other than those mentioned in 20 01 25	R9	M	Weighed	Offsite in Ireland	Enva,W184-01	Clonmiam Ind Estate,Portlaois,Portlaois,Laois,Ireland	Enva,W0184-01,Clonminam Ind Est,Portlaoise,Laoise,Laoise,Ireland	Clonminam Ind Est,Portlaoise,Laoise,Laoise,Ireland
Within the Country	20 01 33	Yes	4.22	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-02	Cappinure Ind Estate,Daingean Rd,Tullamore,Offaly,Ireland	KMK Metals,W0113-02,Cappinure Ind Est,Daingean Rd,Tullamore,Offaly,Ireland	Cappinure Ind Est,Daingean Rd,Tullamore,Offaly,Ireland

Within the Country	20 01 33	Yes	6.7	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries	R4	M	Weighed	Offsite in Ireland	Rialta,W0192-02	Greenouge Ind Estate,Rathcoole,Dublin,Dublin,Ireland	Rialta ,W0192-02,Greenouge Ind Es,Rathcoole,Dublin,Dublin,Ireland	Greenouge Ind Es,Rathcoole,Dublin,Dublin,Ireland
Within the Country	20 01 36	No	240.24	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-02	Cappinure Ind Estate,Daingean Rd,Tullamore,Offaly,Ireland		
Within the Country	20 01 36	No	0.0	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-02	Cappinure Ind Estate,Daingean Rd,Tullamore,Offaly,Ireland		
Within the Country	20 01 39	No	29.6	plastics (Hard plastics)	R5	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	20 01 40	No	4.98	metals (aluminium cans)	R4	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	20 01 40	No	24.58	metals (steel cans)	R5	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	20 01 40	No	89.5	metals (scrap metals)	R4	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	20 02 01	No	0.0	biodegradable waste (green waste)	R5	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	20 03 01	No	1148.15	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Derrinumera Landfill,W0021-2	Newport,Newport,Newport, Mayo,Ireland		
Within the Country	20 03 01	No	39567.34	mixed municipal waste	D1	M	Weighed	Onsite of generati	Rathroeen Landfill,W0067-2	Rathroeen Landfill,Killala Road,Ballina,Ballina,Ireland		
Within the Country	20 03 03	No	24976.0	leachate	D1	M	Weighed	Offsite in Ireland	Ballina Town Council,Exm	Ballina Civic Offices,Arran Place,Ballina,Mayo,Ireland		
Within the Country	20 03 03	No	0.0	m	D1	M	Weighed	Offsite in Ireland	Mayo County Councils Area Offices,EXM	Arás An Chontae,The Mall,Castlebar,Mayo,Ireland		
To Other Countries	20 01 27	Yes	25.12	paint, inks, adhesives and resins containing dangerous substances	D10	M	Weighed	Abroad	Eco Safe Systems,W0054-02	Unit 1,Allied Ind Est,Kylemore Rd,Dublin 10,Ireland	Recyfuel,SA BE 459735458,Zoning Ind Est,D'Hein,Eingis,B4480,Belgium	Zoning Ind Est,D'Hein,Eingis,B4480,Belgium
To Other Countries	**20 01 32**	**No**	0.3	medicines other than those mentioned in 20 01 31	D10	M	Weighed	Abroad	Eco Safe Systems,W0054-02	Unit 1,Allied Ind Est,Kylemore Rd,Dublin 10,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