

**Facility Information Summary**

AER Reporting Year	2013
Licence Register Number	W0049-02
Name of site	Clonbullogue Ash Repository
Site Location	Clonreen Clonbullogue Co Offaly
NACE Code	3821
Class/Classes of Activity	3.1
National Grid Reference (6E, 6 N)	259444, 225189

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.**

The facility is licensed to accept 70,000 tonnes per annum of bottom and fly ash generated from the combustion of Peat/Biomass/MBM at Edenderry Power Ltd. In the reporting year a total of 36,605 tonnes of ash was delivered and placed in the site. This was made up of 10,400 tonnes of bottom ash and 26,205 tonnes of fly ash. There were no complaints of an environmental nature during the reporting period. There were 4 non compliances, two in relation to leachate levels in the leachate sumps and two procedural following an Agency visit. In relation to site monitoring and laboratory analysis, all results were fully compliant. The leachate lagoon was also improved during the reporting period, works included the raising of the floor formation level and the placing of a complete new lining system. A proposal is currently with the Agency in relation to the placement of a new improved capping system on cell 1. The lining of cell 4 was also completed during 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.

 Signature Group/Facility manager (or nominated, suitably qualified and experienced deputy)	27/3/14 Date
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**AIR-summary template** Lic No: W0049-02 Year 2013

Answer all questions and complete all tables where relevant

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

Additional information	
No	Fugitive Dust Monitoring. Results entered in Table A2 as instructed by the Agency

**Periodic/Non-Continuous Monitoring**

2 Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below

No	
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3 Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? [Basic air monitoring checklist](#) [AGN2](#)

Yes	
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**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 thereof	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

<b>AIR-summary template</b>	Lic No: W0049-02	Year: 2013
<b>Continuous Monitoring</b>		

4 Does your site carry out continuous air emissions monitoring?

If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)

5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below

6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?

7 Did your site experience any abatement system bypasses? If yes please detail them in table A3 below

**Table A2: Summary of average emissions -continuous monitoring**

Emission reference no:	Parameter/ Substance	ELV in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
DM-01	Total Particulates	350 mg/m2/day	140	Daily average < ELV	mg/m2/day	14896	166	0	0	
DM-02	Total Particulates	350 mg/m2/day	140	Daily average < ELV	mg/m2/day	20496	247	0	0	
DM-03	Total Particulates	350 mg/m2/day	140	Daily average < ELV	mg/m2/day	8064	100	0	0	
DM-04	Total Particulates	350 mg/m2/day	140	Daily average < ELV	mg/m2/day	9016	83	0	0	
	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

**Solvent use and management on site**

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

No

<b>Table A4: Solvent Management Plan Summary</b>	<a href="#">Solvent regulations</a>	Please refer to linked solvent regulations to complete table 5 and 6
<b>Total VOC Emission limit value</b>		

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

Table A5: Solvent Mass Balance summary								
	(I) Inputs (kg)			(O) Outputs (kg)				
Solvent	(I) Inputs (kg)	Organic solvent emission in waste	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

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 <b>you do not have</b> licensed emissions you <u>only</u> need to complete table W1 and or W2 for storm water analysis and visual inspections	Yes All monitoring results are attached seperately as advised by the EPA
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 <u>only any evidence of contamination noted during visual inspections</u>	Yes All monitoring results are attached seperately as advised by the EPA

**Table W1 Storm water monitoring**

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

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

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

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

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

3 Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below	No 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 <a href="#">External /Internal Lab Quality checklist</a> <a href="#">Assessment of results checklist</a>	Yes

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

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof <sup>Note 2</sup>	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

**Continuous monitoring**

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

No	
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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

NA	
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7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?

NA	
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8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below

NA	
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**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 testing**

dropdown menu click to see options

**Additional information**

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, please include all bunds outside the licenced testing period** (mobile bunds and chemstore included)

- 1
- 2 Please provide integrity testing frequency period
- 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)
- 4 How many bunds are on site?
- 5 How many of these bunds have been tested within the required test schedule?
- 6 How many mobile bunds are on site?
- 7 Are the mobile bunds included in the bund test schedule?
- 8 How many of these mobile bunds have been tested within the required test schedule?
- 9 How many sumps on site are included in the integrity test schedule?
- 10 How many of these sumps are integrity tested within the test schedule?
- Please list any sump integrity failures in table B1**
- 11 Do all sumps and chambers have high level liquid alarms?
- 12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?
- 13 Is the Fire Water Retention Pond included in your integrity test programme?

Yes	
2 Yearly	
Yes	
0	
NA	
3	This includes barrel trays located within lock up container
No	
NA	
NA	
NA	
No	
NA	
SELECT	

**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)
	SELECT					SELECT			SELECT	SELECT		SELECT		
	SELECT					SELECT			SELECT	SELECT		SELECT		

\* Capacity required should comply with 25% or 110% containment rule as detailed in your licence  
 Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance? [bundings and storage guidelines](#)

- 15
- 16 Are channels/transfer systems to remote containment systems tested?
- 17 Are channels/transfer systems compliant in both integrity and available volume?

Commentary

SELECT	
SELECT	
SELECT	

**Pipeline/underground structure testing**

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 1 underground structures and pipelines on site **which failed the integrity test and all which have not been tested within the integrity test period as specified**

2 Please provide integrity testing frequency period

\*please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

SELECT	
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:	W0049-02	Year	2013
<p>*please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the Groundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the EPA.</p>				<p><a href="#">Groundwater monitoring template</a></p>	
<p>More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31)</p>				<p><a href="#">Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013)</a></p>	
<p>**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)</p>				<p> <a href="#">Groundwater regulations</a> <a href="#">Drinking water (private supply) standards</a>  <a href="#">Surface water EQS</a> <a href="#">GTV's</a> <a href="#">Drinking water (public supply) standards</a> </p>	

**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



[Interim Guideline  
Values \(IGV\)](#)



<b>Environmental Liabilities template</b>	Lic No:	W0049-02	Year	2013
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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	A review of the ELRA took place in March 2014 to the new EPA Guidance and this will be submitted to the EPA in April 14
2	ELRA review status	Review required and completed	Review carried out March 2014
3	Amount of Financial Provision cover required as determined by the latest ELRA	€81,988	
4	Financial Provision for ELRA status	Submitted and agreed by EPA	
5	Financial Provision for ELRA - amount of cover	€81,988	Provisional Figure
6	Financial Provision for ELRA - type	Other please specify	Company Guarantee
7	Financial provision for ELRA expiry date	Enter expiry date	There is no expiry date as it is reviewed and carried forward each financial year as dictated by the ELRA.
8	Closure plan initial agreement status	Closure plan submitted and agreed by EPA	
9	Closure plan review status	Review required and completed	Review carried out March 2014 to be agreed in April
10	Financial Provision for Closure status	Submitted and agreed by EPA	
11	Financial Provision for Closure - amount of cover	€503,820	Review carried out March 2014 to be agreed in April 14
12	Financial Provision for Closure - type	Other please specify	Company Guarantee
13	Financial provision for Closure expiry date	2034	

<b>Environmental Management Programme/Continuous Improvement Programme template</b>	Lic No:	W0049-02	Year	2013
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	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 Unaccredited internal EMS

**Environmental Management Programme (EMP) report**

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Additional improvements	Conduct all operations on site in accordance with the schedules and conditions of the waste licence and also in conjunction with the restoration and aftercare programme	70	All site operations were carried out in compliance with licence conditions. There were however 3 non-compliance, one in relation to sump levels and two procedural, following EPA visits.	Individual	Increased compliance with licence conditions
Materials Handling/Storage/Bunding	Future cell development	90	The placement of the lining system in cell 4 was completed. The leachate lagoon was reconstructed and newly lined.	Section Head	Installation of infrastructure
Reduction of emissions to Water	Improved capping system	30	Proposal submitted which calls for an improved lining system on cell 1. To be extended if accepted and successful.	Section Head	Reduced emissions
Additional improvements	Leachate Management Plan	50	An improved leachate management plan was submitted and accepted. Currently at the contract stage.	Individual	Increased compliance with licence conditions

Environmental Management Programme/Continuous Improvement Programme template				Lic No:	W0049-02	Year	2013
Materials Handling/Storage/Bunding	Alternative Ash/Leachate use	70	The viability of alternative uses for both ash and leachate is ongoing.	Section Head	Improved Environmental Management Practices		
SELECT		SELECT		SELECT	SELECT		



<b>Noise monitoring summary report</b>	Lic No: W0049-02	Year	2013
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- 1 Was noise monitoring a licence requirement for the AER period?  
If yes please fill in table N1 noise summary below No
- 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? NA
- 3 Does your site have a noise reduction plan NA
- 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) since the last noise survey? No

Noise  
Guidance  
note NG4

**Table N1: Noise monitoring summary**

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA <sub>eq</sub>	LA <sub>90</sub>	LA <sub>10</sub>	LA <sub>max</sub>	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)?
								SELECT	SELECT		SELECT

\*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)

- 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
- 3 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	
Yes	
NA	

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)	1499	1499	14	0
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	1.3	1.3	14	0
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	147.47	147.47	14	0
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 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 <sup>3</sup> /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply							
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)	0	0	0	0	0
Non-Hazardous (Tonnes)	0.91	0.91	0	0	0

## Resource Usage/Energy efficiency summary

Lic No: W0049-02

Year

2013

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					





WASTE SUMMARY											Lic No: W0049-02		Year: 2013	
											ha	ha	SELECT UNIT	
Clonbullogue Ash Repos		Nov-00	Ongoing	Yes	Private	Inert		No	No	No	7.5	7.5	NA	

<b>WASTE SUMMARY</b>	Lic No:	W0049-02	Year	2013
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**Table 4 Environmental monitoring-landfill only** [Landfill Manual-Monitoring Standards](#)

Was meteorological 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	NA	Yes	Yes	Yes	Yes	No	The waste is not subject to a landfill levy

→ 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
ha	SELECT UNIT					
0.56		0	NA	5.1	1.13	Capped as per licence condition 10.3. 80/20 Peat/Subsoil

\*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?

No
Yes

10 Is leachate released to surface water? If yes please complete leachate mass load information below

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

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
			SELECT	

Comments on  
liner type



HDPE & GCL



<b>Cloncreen Ash Repository Monitoring Results</b>
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<b>Monitoring Location: SW4</b>
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<b>Parameter</b>	<b>Date</b>	13/03/2013	17/05/2013	19/09/2013	13/12/2013
Ammonia mg/l	<b>Quarterly</b>	0.27	0.02	0.76	0.13
COD ( mg/l )	<b>Quarterly</b>	28	55	44	43
pH ( pH units )	<b>Quarterly</b>	7.6	7.6	7.8	7.6
Total Suspended Solids ( mg/l )	<b>Quarterly</b>	7	5	5	5

<b>Cloncreen Ash Repository Monitoring Results</b>
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<b>Monitoring Location: SW5</b>
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<b>Parameter</b>	<b>Date</b>	13/03/2013	17/05/2013	19/09/2013	13/12/2013
Ammonia mg/l	<b>Quarterly</b>	0.56	0.06	0.03	0.15
COD ( mg/l )	<b>Quarterly</b>	53	52	49	59
pH ( pH units )	<b>Quarterly</b>	7.8	8.1	7.9	7.8
Total Suspended Solids ( mg/l )	<b>Quarterly</b>	5	5	5	7

<b>Cloncreen Ash Repository Monitoring Results</b>
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<b>Monitoring Location: SW6</b>
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<b>Parameter</b>	<b>Date</b>	13/03/2013	17/05/2013	19/09/2013	13/12/2013
Ammonia mg/l	<b>Quarterly</b>	0.55	0.17	0.2	0.2
COD ( mg/l )	<b>Quarterly</b>	40	43	45	55
pH ( pH units )	<b>Quarterly</b>	7.8	8	7.8	7.8
Total Suspended Solids ( mg/l )	<b>Quarterly</b>	6	5	5	6

<b>Cloncreen Ash Repository Monitoring Results</b>
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<b>Monitoring Location: SW7</b>
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<b>Parameter</b>	<b>Date</b>	13/03/2013	17/05/2013	19/09/2013	13/12/2013
Ammonia mg/l	<b>Quarterly</b>	0.02	0.02	0.02	0.04
COD ( mg/l )	<b>Quarterly</b>	49	56	47	58
pH ( pH units )	<b>Quarterly</b>	7.6	7.7	7.9	7.7
Suspended Solids ( mg/l )	<b>Quarterly</b>	5	5	5	5

<b>Cloncreen Ash Repository Monitoring Results</b>
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<b>Monitoring Location: SW8</b>
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<b>Parameter</b>	<b>Date</b>	13/03/2013	17/05/2013	19/09/2013	13/12/2013
Ammonia mg/l	<b>Quarterly</b>	0.03	0.02	0.02	0.05
COD ( mg/l )	<b>Quarterly</b>	43	55	45	61
pH ( pH units )	<b>Quarterly</b>	7.6	7.6	7.5	7.6
Suspended Solids ( mg/l )	<b>Quarterly</b>	5	5	6	5

<b>Cloncreen Ash Repository Monitoring Results</b>
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<b>Monitoring Location: SWR1</b>					
<b>Parameter</b>	<b>Date</b>	13/03/2013	17/05/2013	19/09/2013	13/12/2013
Ammonia mg/l	<b>Quarterly</b>	0.29	0.15	0.33	0.21
COD ( mg/l )	<b>Quarterly</b>	47	52	49	40
pH ( pH units )	<b>Quarterly</b>	7.6	7.9	8	7.7
Suspended Solids ( mg/l )	<b>Quarterly</b>	6	7	5	5



**CLONCREEN ASH REPOSITORY  
MONITORING RESULTS**

Monitoring Location: LC1A

Parameter	Date	23/02/2007	19/03/2013	11/07/2013	14/10/2013
COD ( mg/l )	Bi-Annually	416	346	145	173
Amomical nitrogen ( mg/l NH4-N )	Bi-Annually	8.1	5.8	5.5	5.8
Temperature ( 0C )	Bi-Annually	11.01	8.5	11.8	9.8
Electrical Conductivity (µS/cm)	Bi-Annually	14.73	12530	6320	5875
pH ( pH units )	Bi-Annually	10.38	12.67	12.2	12
Boron	Annually			5	
Arsenic (µg/l)	Annually			2	
Silver (µg/l)	Annually			2	
Aluminium (µg/l)	Annually			162	
Beryllium (µg/l)	Annually			2	
Barium (µg/l)	Annually			50	
calcium (mg/l)	Annually			7.5	
chromium (µg/l)	Annually			2	
Cadmium (µg/l)	Annually			2	
Cobalt (µg/l)	Annually			3	
Copper (µg/l)	Annually			33	
Iron (mg/l)	Annually			0.1	
Potassium (mg/l)	Annually			601	
Magnesium (mg/l)	Annually			0.01	
Manganese (µg/l)	Annually			2	
Sodium (mg/l)	Annually			562	
Nickel (µg/l)	Annually			68	
Lead (µg/l)	Annually			2	
Antimony (µg/l)	Annually			2	
Selenium (µg/l)	Annually			4	
Tin (µg/l)	Annually			2	
Zinc (µg/l)	Annually			47	
Mercury (µg/l)	Annually			1	
Phosphorus (mg/l)	Annually			0.05	
Flouride (mg/l)	Annually			0.1	
PO4-P (mg/l)	Annually			0.01	
VOC's USEPA 524.2 (µg/l)	Annually			All<1*	
SVOCS (µg/l)	Annually			All<1**	
Comb Pesticide suite (µg/l)	Annually			All<0.01	
VOC's by GC-FID	Annually			All<0.5	

\*Dichloromethane =<3  
 \*\*Phenol 11.7  
 \*\* Bis(2-ethylhexyl) phthalate = <5.72

**Cloncren Ash Repository**  
**Monitoring Results**  
**Monitoring Location: LC2A**

Parameter	Date	23/02/2007	19/03/2013	11/07/2013	14/10/2013
COD ( mg/l )	Bi-Annually	666	125	113	161
Amonical nitrogen ( mg/l NH4 )	Bi-Annually	3.21	2.8	2.4	3.1
Temperature ( OC )	Bi-Annually	11.4	8	11.8	9.5
Electrical Conductivity (µS/cm)	Bi-Annually	30.2	22330	14405	12620
pH ( pH units )	Bi-Annually	10.4	12.94	12.45	12.3
Total oxidised nitrogen ( mg/l )	Annually			0.27	
Boron	Annually			2	
Arsenic (µg/l)	Annually			3	
Silver (µg/l)	Annually			2	
Aluminium (µg/l)	Annually			121	
Beryllium (µg/l)	Annually			2	
Barium (µg/l)	Annually			30	
calcium (mg/l)	Annually			15	
chromium (µg/l)	Annually			2	
Cadmium (µg/l)	Annually			2	
Cobalt (µg/l)	Annually			3	
Copper (µg/l)	Annually			47	
Iron (mg/l)	Annually			0.1	
Potassium (mg/l)	Annually			2002	
Magnesium (mg/l)	Annually			0.1	
Manganese (µg/l)	Annually			2	
Sodium (mg/l)	Annually			1649	
Nickel (µg/l)	Annually			37	
Lead (µg/l)	Annually			4	
Antimony (µg/l)	Annually			2	
Selenium (µg/l)	Annually			16	
Tin (µg/l)	Annually			2	
Zinc (µg/l)	Annually			45	
Mercury (µg/l)	Annually			1	
Phosphorus (mg/l)	Annually			0.05	
Flouride (mg/l)	Annually			0.1	
PO4-P (mg/l)	Annually			0.01	
VOC's USEPA 524.2 (µg/l)	Annually			All<1*	
SVOC'S (µg/l)	Annually			All<1**	
Comb Pesticide suite (µg/l)	Annually			All<0.01	
VOC's by GC-FID	Annually			All<0.5	

\*Dichloromethane =<3  
\*\*Phenol 7.36  
\*\* Bis(2-ethylhexyl) phthalate = <5

<b>Cloncreen Ash Repository Monitoring Results</b>
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<b>Monitoring Location: LC3A</b>
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<b>Parameter</b>	<b>Date</b>	<b>19/03/2013</b>	<b>11/07/2013</b>	<b>14/10/2013</b>
COD ( mg/l )	<b>Bi-Annually</b>	254	115	89
Amonical nitrogen ( mg/l NH4 )	<b>Bi-Annually</b>	1.8	3.5	0.59
Temperature ( 0C )	<b>Bi-Annually</b>	7.8	11.4	9.8
Electrical Conductivity (µS/cm)	<b>Bi-Annually</b>	17620	13210	18030
pH ( pH units )	<b>Bi-Annually</b>	12.61	11.99	12.5
Total oxidised nitrogen ( mg/l )	<b>Annually</b>		0.7	
Boron	<b>Annually</b>		2	
Arsenic (µg/l)	<b>Annually</b>		3	
Silver (µg/l)	<b>Annually</b>		2	
Aluminium (µg/l)	<b>Annually</b>		465	
Berylium (µg/l)	<b>Annually</b>		2	
Barium (µg/l)	<b>Annually</b>		14	
calcium (mg/l)	<b>Annually</b>		27	
chromium (µg/l)	<b>Annually</b>		25	
Cadmium (µg/l)	<b>Annually</b>		2	
Cobalt (µg/l)	<b>Annually</b>		2	
Copper (µg/l)	<b>Annually</b>		10	
Iron (mg/l)	<b>Annually</b>		0.14	
Potassium (mg/l)	<b>Annually</b>		1393	
Magnesium (mg/l)	<b>Annually</b>		0.21	
Manganese (µg/l)	<b>Annually</b>		6	
Sodium (mg/l)	<b>Annually</b>		1362	
Nickel (µg/l)	<b>Annually</b>		11	
Lead (µg/l)	<b>Annually</b>		3	
Antimony (µg/l)	<b>Annually</b>		2	
Selenium (µg/l)	<b>Annually</b>		52	
Tin (µg/l)	<b>Annually</b>		2	
Zinc (µg/l)	<b>Annually</b>		95	
Mercury (µg/l)	<b>Annually</b>		1	
Phosphorus (mg/l)	<b>Annually</b>		1.5	
Flouride (mg/l)	<b>Annually</b>		0.81	
PO4-P (mg/l)	<b>Annually</b>		1.3	
VOC's USEPA 524.2 (µg/l)	<b>Annually</b>		All<1*	
SVOC'S (µg/l)	<b>Annually</b>		All<1**	
Comb Pesticide suite (µg/l)	<b>Annually</b>		All<0.01	
VOC's by GC-FID	<b>Annually</b>		All<0.5	

\*Dichloromethane =<3

\*\*Phenol 7.03

\*\* Bis(2-ethylhexyl) phthalate = <5

<b>Clonreen Ash Repository Monitoring Results</b>
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<b>Monitoring Location: LC3B</b>
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Parameter	Date	19/03/2013	11/07/2013	14/10/2013
COD ( mg/l )	Bi-Annually	64	105	206
Amonical nitrogen ( mg/l NH4 )	Bi-Annually	0.2	3.6	3.9
Temperature ( 0C )	Bi-Annually	7.2	11.2	10.1
Electrical Conductivity (µS/cm)	Bi-Annually	15190	11500	32400
pH ( pH units )	Bi-Annually	12.71	10.2	12.9
Total oxidised nitrogen ( mg/l )	Annually		1.5	
Boron	Annually		60	
Arsenic (µg/l)	Annually		6	
Silver (µg/l)	Annually		2	
Aluminium (µg/l)	Annually		3706	
Beryllium (µg/l)	Annually		2	
Barium (µg/l)	Annually		12	
calcium (mg/l)	Annually		11	
chromium (µg/l)	Annually		4	
Cadmium (µg/l)	Annually		2	
Cobalt (µg/l)	Annually		2	
Copper (µg/l)	Annually		9	
Iron (mg/l)	Annually		0.11	
Potassium (mg/l)	Annually		2323	
Magnesium (mg/l)	Annually		0.46	
Manganese (µg/l)	Annually		3	
Sodium (mg/l)	Annually		1445	
Nickel (µg/l)	Annually		12	
Lead (µg/l)	Annually		2	
Antimony (µg/l)	Annually		2	
Selenium (µg/l)	Annually		60	
Tin (µg/l)	Annually		2	
Zinc (µg/l)	Annually		307	
Mercury (µg/l)	Annually		1	
Phosphorus (mg/l)	Annually		0.52	
Flouride (mg/l)	Annually		0.24	
PO4-P (mg/l)	Annually		0.43	
VOC's USEPA 524.2 (µg/l)	Annually		All<1*	
SVOC'S (µg/l)	Annually		All<1**	
Comb Pesticide suite (µg/l)	Annually		All<0.01	
VOC's by GC-FID	Annually		All<0.5	

\*Dichloromethane =<3

\*\* Bis(2-ethylhexyl) phthalate = <5.67

<b>Clonreen Ash Repository Monitoring Results</b>
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<b>Monitoring Location: LC4A</b>
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Parameter	Date	19/03/2013	14/10/2013	23/10/2013
COD ( mg/l )	<b>Bi-Annually</b>	58	43	n/a
Amonical nitrogen ( mg/l NH4 )	<b>Bi-Annually</b>	0.52	0.29	n/a
Temperature ( 0C )	<b>Bi-Annually</b>	6.3	8.8	n/a
Electrical Conductivity (µS/cm)	<b>Bi-Annually</b>	896	6510	n/a
pH ( pH units )	<b>Bi-Annually</b>	9.8	11.9	n/a
Total oxidised nitrogen ( mg/l )	<b>Annually</b>			0.2
Arsenic (µg/l)	<b>Annually</b>			2
Silver (µg/l)	<b>Annually</b>			2
Aluminium (µg/l)	<b>Annually</b>			2137
Berylium (µg/l)	<b>Annually</b>			2
Barium (µg/l)	<b>Annually</b>			14
calcium (mg/l)	<b>Annually</b>			32
chromium (µg/l)	<b>Annually</b>			23
Cadmium (µg/l)	<b>Annually</b>			2
Cobalt (µg/l)	<b>Annually</b>			2
Copper (µg/l)	<b>Annually</b>			4
Iron (mg/l)	<b>Annually</b>			0.1
Potassium (mg/l)	<b>Annually</b>			898
Magnesium (mg/l)	<b>Annually</b>			0.13
Manganese (µg/l)	<b>Annually</b>			2
Sodium (mg/l)	<b>Annually</b>			268
Nickel (µg/l)	<b>Annually</b>			2
Lead (µg/l)	<b>Annually</b>			2
Antimony (µg/l)	<b>Annually</b>			2
Selenium (µg/l)	<b>Annually</b>			30
Tin (µg/l)	<b>Annually</b>			2
Zinc (µg/l)	<b>Annually</b>			2
Mercury (µg/l)	<b>Annually</b>			2
Phosphorus (mg/l)	<b>Annually</b>			0.05
Flouride (mg/l)	<b>Annually</b>			0.1
PO4-P (mg/l)	<b>Annually</b>			0.01
VOC's USEPA 524.2 (µg/l)	<b>Annually</b>			<1*
SVOC'S (µg/l)	<b>Annually</b>			<1**
Comb Pesticide suite (µg/l)	<b>Annually</b>			<0.01***

\*Dichloromethane <3

\*\* Bis(2-ethylhexyl)phthalate <10

\*\* n-Di octyl phthalate <5

\*\*\* p,p-DDT <0.02

**Monitoring Results**

**Monitoring Location: L1**

Parameter	Date	19/03/2013	11/07/2013
COD ( mg/l )	Bi-Annually	60	49
Amonical nitrogen ( mg/l NH4 )	Bi-Annually	0.32	0.05
Temperature ( 0C )	Bi-Annually	2	12.5
Electrical Conductivity (µS/cm)	Bi-Annually	742	622
pH ( pH units )	Bi-Annually	8	8.4
Total oxidised nitrogen ( mg/l )	Annually		0.2
Arsenic (µg/l)	Annually		2
Silver (µg/l)	Annually		2
Aluminium (µg/l)	Annually		4
Berylium (µg/l)	Annually		2
Barium (µg/l)	Annually		92
calcium (mg/l)	Annually		55
chromium (µg/l)	Annually		2
Cadmium (µg/l)	Annually		2
Cobalt (µg/l)	Annually		2
Copper (µg/l)	Annually		2
Iron (mg/l)	Annually		0.14
Potassium (mg/l)	Annually		43
Magnesium (mg/l)	Annually		8.8
Manganese (µg/l)	Annually		9
Sodium (mg/l)	Annually		56
Nickel (µg/l)	Annually		2
Lead (µg/l)	Annually		2
Antimony (µg/l)	Annually		2
Selenium (µg/l)	Annually		2
Tin (µg/l)	Annually		2
Zinc (µg/l)	Annually		29
Mercury (µg/l)	Annually		1
Phosphorus (mg/l)	Annually		0.05
Flouride (mg/l)	Annually		0.1
PO4-P (mg/l)	Annually		0.01
VOC's USEPA 524.2 (µg/l)	Annually		All <1*
SVOC'S (µg/l)	Annually		All <1**
Comb Pesticide suite (µg/l)	Annually		All <0.01
VOC's by GC-FID	Annually		All<0.5

\*Dichloromethane =<3

\*\* Bis(2-ethylhexyl) phthalate = <5.76

**Cloncren Ash Repository  
Monitoring Results**

**Monitoring Location: L2**

Parameter	Date	13/03/2013	17/05/2013	11/07/2013	13/12/2013
COD ( mg/l )	Quarterly	40	0.05	52	No Sample
Dissolved oxygen (%)	Quarterly	32.1	35.9	32.8	
Dissolved oxygen ( mg/l )	Quarterly	4.32	3.88	3.61	
Electrical Conductivity (µS/cm)	Quarterly	732	654	624	
Ammoniacal Nitrogen ( mg/l NH4 )	Quarterly	0.21	0.05	0.04	
pH ( pH units )	Quarterly	8.2	8.4	8.6	
Total Suspended Solids ( mg/l )	Quarterly	5	5	5	
Boron	Annually			6	
Arsenic (µg/l)	Annually			2	
Silver (µg/l)	Annually			2	
Aluminium (µg/l)	Annually			4	
Beryllium (µg/l)	Annually			2	
Barium (µg/l)	Annually			93	
calcium (mg/l)	Annually			55	
chromium (µg/l)	Annually			2	
Cadmium (µg/l)	Annually			2	
Cobalt (µg/l)	Annually			2	
Copper (µg/l)	Annually			2	
Iron (mg/l)	Annually			0.22	
Potassium (mg/l)	Annually			38	
Magnesium (mg/l)	Annually			8.9	
Manganese (µg/l)	Annually			15	
Sodium (mg/l)	Annually			52	
Nickel (µg/l)	Annually			3	
Lead (µg/l)	Annually			2	
Antimony (µg/l)	Annually			2	
Selenium (µg/l)	Annually			2	
Tin (µg/l)	Annually			2	
Zinc (µg/l)	Annually			27	
Mercury (µg/l)	Annually			1	
PO4-P (mg/l)	Annually			0.01	
VOC's USEPA 524.2 (µg/l)	Annually				
SVOC'S (µg/l)	Annually				
Comb Pesticide suite (µg/l)	Annually				

\* Except Bis(2-ethylhexyl) phtalate = <2

\*2,4-Dimethylpenol = 1.61

\*Phenol = 7.36

**Cloncreen Ash Repository  
Monitoring Results**

**Monitoring Location: MW02**

Parameter	Date	29/01/2013	21/02/2013	14/03/2013	23/04/2013	13/05/2013	24/06/2013	15/07/2013	19/08/2013	04/09/2013	14/10/2013	13/11/2013	04/12/2013
Visual/Odour	Monthly	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Slightly milky, no odour	Clear, No odour
Groundwater level (m AOD)	Monthly	68.702	68.652	68.452	68.452	68.252	68.052	67.602	67.702	67.352	68.152	68.452	68.402
pH (pH units)	Monthly	7.3	7.4	7.6	7.4	7.4	7.3	7.4	7.3	7.3	7.5	7.4	7.4
Electrical Conductivity (µS/cm)	Monthly	703	710	688	683	670.5	688.5	682.5	726.5	719	744	773	752
Total Ammonia mg/l	Monthly	6	6	6	5.8	5.7	6.1	5.9	5.8	6.1	6.3	6.1	6.2
Sulphate(SO4) mg/l	Monthly	4.32	4.18	5.63	4.6	3.4	2.8	3.8	3.1	3.5	4.5	7.1	6.1
Arsenic (µg/l)	Annually							4					
Silver (µg/l)	Annually							2					
Aluminium (µg/l)	Annually							2					
Beryllium (µg/l)	Annually							2					
Barium (µg/l)	Annually							963					
calcium (mg/l)	Annually							110					
chromium (µg/l)	Annually							2					
Cadmium (µg/l)	Annually							2					
Cobalt (µg/l)	Annually							2					
Copper (µg/l)	Annually							2					
Iron (mg/l)	Annually							0.1					
Potassium (mg/l)	Annually							2.7					
Magnesium (mg/l)	Annually							20					
Manganese (µg/l)	Annually							182					
Sodium (mg/l)	Annually							9.8					
Nickel (µg/l)	Annually							10					
Lead (µg/l)	Annually							2					
Antimony (µg/l)	Annually							2					
Selenium (µg/l)	Annually							2					
Tin (µg/l)	Annually							2					
Zinc (µg/l)	Annually							35					
Mercury (µg/l)	Annually							1					
Flouride (mg/l)	Annually							0.36					
PO4-P (mg/l)	Annually							0.01					
VOC's USEPA 524.2 (µg/l)	Annually							All<1					
SVOC'S (µg/l)	Annually							All<1*					
Comb Pesticide suite (µg/l)	Annually							All<0.01					

\* Except Bis(2-ethylhexyl) phthalate = <5



**Cloncreen Ash Repository  
Monitoring Results**

**Monitoring Location: MW03**

Parameter	Date	29/01/2013	21/02/2013	14/03/2013	23/04/2013	13/05/2013	24/06/2013	15/07/2013	19/08/2013	04/09/2013	14/10/2013	13/11/2013	04/12/2013
		Slightly yellow with gas odour	Slightly yellow with no odour	Slightly yellow with slight peat odour	Slightly yellow with gas odour	Clear, No odour	Clear, No odour	Slightly milky with no odour	Slightly milky with no odour	Slightly milky with no odour	Slightly yellow with no odour	Clear, No odour	Slightly milky with no odour
Visual/Odour	<b>Monthly</b>												
Groundwater level (m AOD)	<b>Monthly</b>	68.506	68.106	67.656	67.656	67.506	67.456	67.156	67.506	67.206	67.756	68.306	67.806
pH ( pH units )	<b>Monthly</b>	7	6.9	7.1	6.8	6.9	6.8	6.8	6.7	6.7	7.2	7.1	7
Electrical Conductivity (µS/cm)	<b>Monthly</b>	767	982	1248	1231	1243	1215	1236	1299	1316	901	842	967
Total Ammonia mg/l	<b>Monthly</b>	0.33	1.5	2.7	2.1	2.5	5	2.7	2.9	3.3	0.54	0.21	0.49
Sulphate(SO4) mg/l	<b>Monthly</b>	124	200	327	325	330	306	164	350	182	170	120	155
Arsenic (µg/l)	<b>Annually</b>							2					
Silver (µg/l)	<b>Annually</b>							2					
Aluminium (µg/l)	<b>Annually</b>							14					
Beryllium (µg/l)	<b>Annually</b>							2					
Barium (µg/l)	<b>Annually</b>							198					
calcium (mg/l)	<b>Annually</b>							273					
chromium (µg/l)	<b>Annually</b>							2					
Cadmium (µg/l)	<b>Annually</b>							2					
Cobalt (µg/l)	<b>Annually</b>							7					
Copper (µg/l)	<b>Annually</b>							2					
Iron (mg/l)	<b>Annually</b>							0.21					
Potassium (mg/l)	<b>Annually</b>							1.5					
Magnesium (mg/l)	<b>Annually</b>							12					
Manganese (µg/l)	<b>Annually</b>							1879					
Sodium (mg/l)	<b>Annually</b>							5.3					
Nickel (µg/l)	<b>Annually</b>							17					
Lead (µg/l)	<b>Annually</b>							2					
Antimony (µg/l)	<b>Annually</b>							2					
Selenium (µg/l)	<b>Annually</b>							2					
Tin (µg/l)	<b>Annually</b>							2					
Zinc (µg/l)	<b>Annually</b>							33					
Mercury (µg/l)	<b>Annually</b>							1					
Flouride (mg/l)	<b>Annually</b>							0.1					
PO4-P (mg/l)	<b>Annually</b>							0.01					
VOC's USEPA 524.2 (µg/l)	<b>Annually</b>							All <1*					
SVOC'S (µg/l)	<b>Annually</b>							All <1**					
Comb Pesticide suite (µg/l)	<b>Annually</b>							All <0.01					

\*Dichloromethane =<3

\*\* Bis(2-ethylhexyl) phthalate = <5



**Cloncreen Ash Repository  
Monitoring Results**

**Monitoring Location: MW05**

Parameter	Date	29/01/2013	21/02/2013	14/03/2013	23/04/2013	13/05/2013	24/06/2013	15/07/2013	19/08/2013	04/09/2013	14/10/2013	13/11/2013	04/12/2013
Visual/Odour	Monthly	Milky with peat odour	Milky with peat odour	Milky with peat odour	Milky with peat odour	Milky with peat odour	Milky with peat odour	Milky with peat odour	Milky with peat odour	Milky with peat odour	Milky with peat odour	Milky with peat odour	Milky with peat odour
Groundwater level (m AOD)	Monthly	66.684	66.584	66.484	66.434	66.384	66.234	66.184	66.384	66.234	66.234	66.534	66.484
pH (pH units)	Monthly	7	7	7.4	7.1	7	7	7	7	7.1	7.2	7.1	7.1
Electrical Conductivity (µS/cm)	Monthly	673	645	632	626	629	634	644	619	635	624	696	673.5
Total Ammonia mg/l	Monthly	5.7	6	5.9	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.7	5.8
Sulphate(SO4) mg/l	Monthly	0.5	0.11	0.31	0.55	0.67	0.5	0.68	0.5	0.5	0.6	0.52	0.5
Arsenic (µg/l)	Annually							2					
Silver (µg/l)	Annually							2					
Aluminium (µg/l)	Annually							1043					
Beryllium (µg/l)	Annually							2					
Barium (µg/l)	Annually							75					
calcium (mg/l)	Annually							115					
chromium (µg/l)	Annually							5					
Cadmium (µg/l)	Annually							2					
Cobalt (µg/l)	Annually							2					
Copper (µg/l)	Annually							3					
Iron (mg/l)	Annually							2.3					
Potassium (mg/l)	Annually							1.5					
Magnesium (mg/l)	Annually							8.8					
Manganese (µg/l)	Annually							392					
Sodium (mg/l)	Annually							13					
Nickel (µg/l)	Annually							8					
Lead (µg/l)	Annually							14					
Antimony (µg/l)	Annually							2					
Selenium (µg/l)	Annually							2					
Tin (µg/l)	Annually							2					
Zinc (µg/l)	Annually							42					
Mercury (µg/l)	Annually							1					
Flouride (mg/l)	Annually							0.1					
PO4-P (mg/l)	Annually							0.01					
VOC's USEPA 524.2 (µg/l)	Annually							All<1*					
SVOC'S (µg/l)	Annually							All<1**					
Comb Pesticide suite (µg/l)	Annually							All<0.01					

\*Dichloromethane =<3

\*\* Except Bis(2-ethylhexyl) phthalate = <5

**Clonreen Ash Repository  
Monitoring Results**

Monitoring Location: MW06

Parameter	Date	29/01/2013	21/02/2013	14/03/2013	23/04/2013	13/05/2013	24/06/2013	15/07/2013	19/08/2013	04/09/2013	14/10/2013	13/11/2013	04/12/2013
Visual/Odour	Monthly	Milky with peat odour	Slightly yellow, slight peat odour	Clear, No odour	Clear, No odour	Slightly milky, no odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Slightly yellow, no odour	Slightly yellow, slight peat odour	Slightly yellow, no odour
Groundwater level (m AOD)	Monthly	68.163	68.363	68.213	68.013	68.013	67.913	67.813	67.863	67.763	68.013	68.163	68.113
pH (pH units)	Monthly	6.9	6.9	7.2	6.8	6.8	6.7	6.8	6.7	6.8	6.7	6.8	6.8
Electrical Conductivity (µS/cm)	Monthly	767	798	768	770	762	741	778	757	776	758	780	790
Total Ammonia mg/l	Monthly	7.2	7.3	7.8	7.5	7.3	6.7	7.5	7.8	7.2	7.5	5.5	6.5
Sulphate(SO4) mg/l	Monthly	0.5	0.1	0.33	0.7	0.69	0.5	0.5	1.1	1	12	26	13
Arsenic (µg/l)	Annually												
Silver (µg/l)	Annually												
Aluminium (µg/l)	Annually												
Beryllium (µg/l)	Annually												
Barium (µg/l)	Annually												
calcium (mg/l)	Annually												
chromium (µg/l)	Annually												
Cadmium (µg/l)	Annually												
Cobalt (µg/l)	Annually												
Copper (µg/l)	Annually												
Iron (mg/l)	Annually												
Potassium (mg/l)	Annually												
Magnesium (mg/l)	Annually												
Manganese (µg/l)	Annually												
Sodium (mg/l)	Annually												
Nickel (µg/l)	Annually												
Lead (µg/l)	Annually												
Antimony (µg/l)	Annually												
Selenium (µg/l)	Annually												
Tin (µg/l)	Annually												
Zinc (µg/l)	Annually												
Mercury (µg/l)	Annually												
Fluoride (mg/l)	Annually												
PO4-P (mg/l)	Annually												
VOC's USEPA 524.2 (µg/l)	Annually												
SVOC'S (µg/l)	Annually												
Comb Pesticide suite (µg/l)	Annually												

\*Dichloromethane =<3  
\*\* Except Bis(2-ethylhexyl) phthalate =<6

**Cloncreen Ash Repository  
Monitoring Results**

Monitoring Location: MW07													
Parameter	Date	29/01/2013	21/02/2013	14/03/2013	23/04/2013	13/05/2013	24/06/2013	15/07/2013	19/08/2013	04/09/2013	14/10/2013	13/11/2013	04/12/2013
Visual/Odour	Monthly	Slightly yellow, no odour	Slightly yellow, slight gas odour	Slightly yellow, slight gas odour	Slightly yellow, slight gas odour	Slightly yellow, slight gas odour	Slightly yellow, slight gas odour	Slightly yellow, no odour	Slightly yellow, slight gas odour	Slightly yellow, slight gas odour	Slightly yellow, no odour	Slightly yellow, no odour	Slightly yellow, no odour
Groundwater level (m AOD)	Monthly	67.666	67.616	67.066	67.066	67.066	66.866	66.716	65.966	66.462	66.516	66.866	66.816
pH ( pH units )	Monthly	7	7	7.3	7	7	7	7	6.9	7	7	6.9	7
Electrical Conductivity (µS/cm)	Monthly	940	1090	883	853	854	1050	1097	943	966	1055	1172	1099
Total Ammonia mg/l	Monthly	1.8	2.4	2	1.7	1.7	2.6	2.8	2.6	2.8	3	2.6	2.6
Sulphate(SO4) mg/l	Monthly	3.2	1.04	4.93	5.9	5	2.4	3.5	3.4	2.9	1.6	8.9	5.6
Arsenic (µg/l)	Annually							4					
Silver (µg/l)	Annually							2					
Aluminium (µg/l)	Annually							238					
Beryllium (µg/l)	Annually							2					
Barium (µg/l)	Annually							257					
calcium (mg/l)	Annually							127					
chromium (µg/l)	Annually							5					
Cadmium (µg/l)	Annually							2					
Cobalt (µg/l)	Annually							2					
Copper (µg/l)	Annually							2					
Iron (mg/l)	Annually							11					
Potassium (mg/l)	Annually							64					
Magnesium (mg/l)	Annually							7.2					
Manganese (µg/l)	Annually							339					
Sodium (mg/l)	Annually							92					
Nickel (µg/l)	Annually							3					
Lead (µg/l)	Annually							4					
Antimony (µg/l)	Annually							2					
Selenium (µg/l)	Annually							2					
Tin (µg/l)	Annually							2					
Zinc (µg/l)	Annually							30					
Mercury (µg/l)	Annually							1					
Flouride (mg/l)	Annually							0.1					
PO4-P (mg/l)	Annually							0.09					
VOC's USEPA 524.2 (µg/l)	Annually							All<1*					
SVOC'S (µg/l)	Annually							All<1**					
Comb Pesticide suite (µg/l)	Annually							All<0.01					

\*Dichloromethane =<3

\*\* Except Bis(2-ethylhexyl) phthalate = <5

**Clonreen Ash Repository  
Monitoring Results**

**Monitoring Location: MW08**

Parameter	Date	29/01/2013	21/02/2013	14/03/2013	23/04/2013	13/05/2013	24/06/2013	15/07/2013	19/08/2013	04/09/2013	14/10/2013	13/11/2013	04/12/2013
Visual/Odour	Monthly	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour
Groundwater level (m AOD)	Monthly	69.112	68.862	68.412	68.262	68.112	67.662	67.412	67.412	67.862	67.862	68.312	68.113
pH (pH units)	Monthly	7	6.9	7.2	6.9	7	6.8	6.9	6.8	7.1	7	6.9	6.9
Electrical Conductivity (µS/cm)	Monthly	891	853	844	854	864	853	878	839	877	860.5	952	937
Total Ammonia mg/l	Monthly	0.74	0.63	1.8	2.1	2.2	2.3	2	3.2	3	3.5	2.4	2.8
Sulphate(SO4) mg/l	Monthly	86	74.8	55.9	53	56	54	49	50	47	44	44	49
Arsenic (µg/l)	Annually							9					
Silver (µg/l)	Annually							2					
Aluminium (µg/l)	Annually							67					
Beryllium (µg/l)	Annually							2					
Barium (µg/l)	Annually							438					
calcium (mg/l)	Annually							178					
chromium (µg/l)	Annually							2					
Cadmium (µg/l)	Annually							2					
Cobalt (µg/l)	Annually							7					
Copper (µg/l)	Annually							2					
Iron (mg/l)	Annually							4.7					
Potassium (mg/l)	Annually							0.8					
Magnesium (mg/l)	Annually							6					
Manganese (µg/l)	Annually							577					
Sodium (mg/l)	Annually							6.1					
Nickel (µg/l)	Annually							44					
Lead (µg/l)	Annually							2					
Antimony (µg/l)	Annually							2					
Selenium (µg/l)	Annually							2					
Tin (µg/l)	Annually							2					
Zinc (µg/l)	Annually							27					
Mercury (µg/l)	Annually							1					
Flouride (mg/l)	Annually							0.1					
PO4-P (mg/l)	Annually							0.01					
VOC's USEPA 524.2 (µg/l)	Annually							All<1*					
SVOC'S (µg/l)	Annually							All<1**					
Comb Pesticide suite (µg/l)	Annually							All<0.01					

\*Dichloromethane =<3

\*\* Except Bis(2-ethylhexyl) phthalate = <5

**Clonreen Ash Repository  
Monitoring Results**

**Monitoring Location: MW09**

Parameter	Date	29/01/2013	21/02/2013	14/03/2013	23/04/2013	13/05/2013	24/06/2013	15/07/2013	19/08/2013	04/09/2013	14/10/2013	13/11/2013	04/12/2013
Visual/Odour	Monthly	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour
Groundwater level (m AOD)	Monthly	67.718	67.668	67.418	67.268	67.218	66.768	66.468	66.618	66.368	67.118	67.518	67.368
pH ( pH units )	Monthly	7	7	7.2	7	7	6.9	7	6.9	7	6.8	6.8	7
Electrical Conductivity (µS/cm)	Monthly	747	764	802	811	813	787	769	785	903	821	891	869
Total Ammonia mg/l	Monthly	2.4	2.4	2.4	2	2.1	9	2.4	2.4	2.5	2.2	2.2	2.2
Sulphate(SO4) mg/l	Monthly	5.36	4.79	7.87	10	9.9	8.4	6.3	8.3	6	11	10	11
Arsenic (µg/l)	Annually							23					
Silver (µg/l)	Annually							2					
Aluminium (µg/l)	Annually							2					
Beryllium (µg/l)	Annually							2					
Barium (µg/l)	Annually							440					
calcium (mg/l)	Annually							154					
chromium (µg/l)	Annually							2					
Cadmium (µg/l)	Annually							2					
Cobalt (µg/l)	Annually							5					
Copper (µg/l)	Annually							2					
Iron (mg/l)	Annually							5.7					
Potassium (mg/l)	Annually							0.84					
Magnesium (mg/l)	Annually							8					
Manganese (µg/l)	Annually							248					
Sodium (mg/l)	Annually							6.4					
Nickel (µg/l)	Annually							42					
Lead (µg/l)	Annually							2					
Antimony (µg/l)	Annually							2					
Selenium (µg/l)	Annually							2					
Tin (µg/l)	Annually							2					
Zinc (µg/l)	Annually							18					
Mercury (µg/l)	Annually							1					
Flouride (mg/l)	Annually							0.13					
PO4-P (mg/l)	Annually							0.01					
VOC's USEPA 524.2 (µg/l)	Annually							All<1*					
SVOC'S (µg/l)	Annually							All<1**					
Comb Pesticide suite (µg/l)	Annually							All<0.01					

\*Dichloromethane =<3

\*\* Except Bis(2-ethylhexyl) phthalate = <5

**Cloncreen Ash Repository  
Monitoring Results**

**Monitoring Location: MW10**

Parameter	Date	29/01/2013	21/02/2013	14/03/2013	23/04/2013	13/05/2013	24/06/2013	15/07/2013	19/08/2013	04/09/2013	14/10/2013	13/11/2013	04/12/2013
Visual/Odour	Monthly	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour
Groundwater level (m AOD)	Monthly	68.39	68.29	68.14	67.99	67.94	67.84	67.74	67.79	67.69	67.94	68.14	68.04
pH (pH units)	Monthly	7	7.1	7.3	7.1	7.1	6.9	7	6.9	7	6.8	7	7.1
Electrical Conductivity (µS/cm)	Monthly	676	681	665	684	688	682	700	696	843	703	773	738
Total Ammonia mg/l	Monthly	2.8	2.5	2.6	2.4	2.4	2.5	2.6	2.9	2.9	3.2	2.5	2.5
Sulphate(SO4) mg/l	Monthly	0.5	0.237	0.29	0.51	0.56	0.5	0.55	0.5	0.5	0.5	0.5	0.5
Arsenic (µg/l)	Annually							6					
Silver (µg/l)	Annually							2					
Aluminium (µg/l)	Annually							2					
Beryllium (µg/l)	Annually							2					
Barium (µg/l)	Annually							340					
calcium (mg/l)	Annually							137					
chromium (µg/l)	Annually							2					
Cadmium (µg/l)	Annually							2					
Cobalt (µg/l)	Annually							6					
Copper (µg/l)	Annually							7					
Iron (mg/l)	Annually							3.3					
Potassium (mg/l)	Annually							0.68					
Magnesium (mg/l)	Annually							4.3					
Manganese (µg/l)	Annually							299					
Sodium (mg/l)	Annually							9.8					
Nickel (µg/l)	Annually							30					
Lead (µg/l)	Annually							2					
Antimony (µg/l)	Annually							2					
Selenium (µg/l)	Annually							2					
Tin (µg/l)	Annually							2					
Zinc (µg/l)	Annually							23					
Mercury (µg/l)	Annually							1					
Flouride (mg/l)	Annually							0.1					
PO4-P (mg/l)	Annually							0.01					
VOC's USEPA 524.2 (µg/l)	Annually							All<1*					
SVOC'S (µg/l)	Annually							All<1**					
Comb Pesticide suite (µg/l)	Annually							All<0.01					

\*Dichloromethane =<3

\*\* Except Bis(2-ethylhexyl) phthalate = <5



**Cloncreen Ash Repository**  
**Monitoring Results**

**Monitoring Location: MW11**

Parameter	Date	29/01/2013	21/02/2013	14/03/2013	23/04/2013	13/05/2013	24/06/2013	15/07/2013	19/08/2013	04/09/2013	14/10/2013	13/11/2013	04/12/2013
Visual/Odour	Monthly	Slightly yellow, slight gas odour	Slightly yellow, slight gas odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour	Clear, No odour
Groundwater level (m AOD)	Monthly	67.169	67.019	66.469	66.469	66.419	66.319	66.169	65.619	65.569	65.919	66.219	66.069
pH (pH units)	Monthly	7.6	7.4	7.7	7.4	7.4	7.3	7.3	7	7	7.1	7.1	7.1
Electrical Conductivity (µS/cm)	Monthly	1130	1068	1011	1025	1010	1025	1015	803	787	764	808	778
Total Ammonia mg/l	Monthly	2.9	3.1	3.1	3.1	2.8	3	3	3	2.9	9	2.8	2.8
sulphate(SO4) mg/l	Monthly	19.8	15.1	13.6	12	11	10	10	1.6	1.1	1.2	0.91	0.91
Arsenic (µg/l)	Annually							3					
Silver (µg/l)	Annually							2					
Aluminium (µg/l)	Annually							9					
Beryllium (µg/l)	Annually							2					
Barium (µg/l)	Annually							323					
calcium (mg/l)	Annually							91					
chromium (µg/l)	Annually							2					
Cadmium (µg/l)	Annually							2					
Cobalt (µg/l)	Annually							2					
Copper (µg/l)	Annually							2					
Iron (mg/l)	Annually							1					
Potassium (mg/l)	Annually							90					
Magnesium (mg/l)	Annually							6.5					
Manganese (µg/l)	Annually							246					
Sodium (mg/l)	Annually							64					
Nickel (µg/l)	Annually							2					
Lead (µg/l)	Annually							2					
Antimony (µg/l)	Annually							2					
Selenium (µg/l)	Annually							2					
Tin (µg/l)	Annually							2					
Zinc (µg/l)	Annually							16					
Mercury (µg/l)	Annually							1					
Flouride (mg/l)	Annually							0.1					
PO4-P (mg/l)	Annually							0.01					
VOC's USEPA 524.2 (µg/l)	Annually							All<1*					
SVOC'S (µg/l)	Annually							All<1**					
Comb Pesticide suite (µg/l)	Annually							All<0.01					

\*Dichloromethane =<3

\*\* Except Bis(2-ethylhexyl) phthalate = <5.43



| PRTR# : W0049 | Facility Name : Clonbulloge Ash Repository | Filename : W0049\_2013(1).xls | Return Year : 2013 |

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[Guidance to completing the PRTR workbook](#)

# AER Returns Workbook

Version 1.1.18

<b>REFERENCE YEAR</b>	2013
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## 1. FACILITY IDENTIFICATION

Parent Company Name	Bord Na Mona
Facility Name	Clonbulloge Ash Repository
PRTR Identification Number	W0049
Licence Number	W0049-02

Waste or IPPC Classes of Activity

No.	class_name
3.1	Deposit on, in or under land (including landfill).

Address 1	Cloncreen Bog
Address 2	Clonbulloge
Address 3	Co. Offaly
Address 4	
	Offaly
Country	Ireland
Coordinates of Location	-7.11013 53.274
River Basin District	IESE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
<b>AER Returns Contact Name</b>	Enda McDonagh (W0049)
<b>AER Returns Contact Email Address</b>	enda.mcdonagh@bnm.ie
<b>AER Returns Contact Position</b>	Head of Environmental Engineering
<b>AER Returns Contact Telephone Number</b>	057 9345911
<b>AER Returns Contact Mobile Phone Number</b>	086 2370816
<b>AER Returns Contact Fax Number</b>	057 9345160
<b>Production Volume</b>	36605.0
<b>Production Volume Units</b>	Tonnes
<b>Number of Installations</b>	1
<b>Number of Operating Hours in Year</b>	3796
<b>Number of Employees</b>	4
<b>User Feedback/Comments</b>	There are no loadings calculated on emissions to water as flow measurement is not a licence requirement.
<b>Web Address</b>	www.bnm.ie

## 2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5(d)	Landfills

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

Is it applicable?	No
Have you been granted an exemption ?	
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

## 4. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	No
--	----

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

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

[ PRTR# : W0049 | Facility Name : Clonbulloge Ash Repository | Filename : W0049\_2013(1).xls | Return Year : 2013 ]

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASERS TO AIR		METHOD			Please enter all quantities in this section in KGs			
POLLUTANT		Method Used			QUANTITY			
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)

RELEASERS TO AIR		METHOD				Please enter all quantities in this section in KGs					
POLLUTANT		Method Used				QUANTITY					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	DM-01	DM-02	DM-03	DM-04	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
210	Dust	C	OTH	VDI 2199 Blatt 2/Part 2	0.0	0.0	0.0	0.0	0.052472	0.0	0.052472

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

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

| PRTR# : W0049 | Facility Name : Clonbulloge Ash Repository | Filename : W0049\_2013(1).xls | Return Year : 2013 |

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**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this only co

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

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

**SECTION B : REMAINING PRTR POLLUTANTS**

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

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

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

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

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

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR# : W0049 | Facility Name : Clonbulloge Ash Repository | Filename : W0049\_2013(1).xls | Return

31/03/2014 11:39

**SECTION A : PRTR POLLUTANTS**

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description	0.0	0.0	0.0	0.0

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

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

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
Pollutant No.	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description	0.0	0.0	0.0	0.0

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

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

| PRTR# : W0049 | Facility Name : Clonbulloge Ash Repository | Filename : W0049\_2013(1).xls | Return Year : 2013 |

31/03/2014 11:39

**SECTION A : PRTR POLLUTANTS**

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

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

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

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

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

**5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE**

| PRTR# : W0049 | Facility Name : Clonbulloge Ash Repository | Filename : W0049\_2013(1).xls | Return Year : 2013 |

31/03/2014 11:40

**Please enter all quantities on this sheet in Tonnes**

0

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	Haz Waste: Address of Next Destination Facility	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		Non	Non Haz Waste: Address of Recover/Disposer		
Within the Country	20 03 01	No	0.91	mixed municipal waste	D1	C	<a href="#">Volume Calculation</a>	Offsite in Ireland	AES Ltd Cappincur Tullamore Co Offaly,WCP- OY-08-601-01	Cappincur,Tullamore,Co Offaly,,Ireland		

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