

Facility Information Summary

AER Reporting Year
Licence Register Number
Name of site
Site Location
NACE Code
Class/Classes of Activity
National Grid Reference (6E, 6 N)

2012

P0501-01

Bord na Mona Derrygreenagh

Derrygreenagh, Rochfortbridge, Co Westmeath

0892

1.4

249450, 238140

Activities on site can be divided into two components, firstly the milling, harrowing, ridging and harvesting of peat into stockpiles and secondly the transportation of that peat via an internal rail network to the Power Station and lorry outloading facilities. Due to the unprecedented inclement weather experienced during the 2012 production season, 22.2% of production target was achieved. This equates to approximately 57638 tonnes which is a reduction of 78% of the 2011 production target was achieved. Infrastructurally, there was no bog development. From an environmental perspective silt pond capacity was increased by 1300m³. There were three non-compliances, two related to an Agency audit and one was an exceedance of the ELV as a result of emissions to surface water composite sampling at SW15 Toar bog. The quarterly grab sampling was 100% compliant. There were no environmental complaints received during the reporting period. In relation to silt pond cleaning, 72.5% of ponds received two cleanings, inspections dictating cleaning schedules. Decommissioning and Rehabilitation works are described in an attachment.

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.**

Declaration:

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

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

Date

AIR-summary template

Lic No:

P0501-01

Year

2012

Answer all questions and complete all tables where relevant

Additional information

- 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

No

- 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

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	yes	OTH		

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

AIR-summary template	Lic No:	P0501-01	Year	2012
Continuous Monitoring				

4	Does your site carry out continuous air emissions monitoring?	No	
	If yes please review your continuous monitoring data and report the required fields below in Table 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	No	
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	No	
7	Did your site experience any abatement system bypasses? If yes please detail them in table 4 below	No	

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	140 DAYS	Daily average < ELV	mg/m2/day	8904	142	0	0	Dust monitoring took place on 5 occasions for 28 days each time between April and September
DM-02	Total Particulates	350	140 Days	Daily average < ELV	mg/m2/day	14084	234	0	0	Ditto
DM-03	Total Particulates	350	140 Days	Daily average < ELV	mg/m2/day	17864	211	0	0	Ditto

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

AIR-summary template		Lic No: P0501-01		Year: 2012				
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 thereof	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. by-	Solvents destroyed onsite through	Total emission of Solvent to air (kg)
							Total	

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

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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** licensed emissions you only need to complete table W1 and or W2 for surface water analysis and visual inspections

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

Additional information	
Yes	
Yes	Monthly COD of yard run-off is attached.

Table W1 Surface water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licensed 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

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

4 [External /Internal Lab Quality Assessment of results checklist](#)

Additional information	
No	
Yes	Surface water monitoring was carried out on a quarterly basis. The results of which are attached.

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 ^{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		None		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

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

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Year

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Continuous monitoring

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

Additional Information	
Yes	See note above

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

Yes	Total of twenty days over 365 days
-----	------------------------------------

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

Yes	Annual calibration schedule and trouble shooting service
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8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below

No

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
SW15	Water	Suspended Solids	35	24 hour	Not Listed	mg/L	9075	37.64%	480	1	Down time was primarily due to battery changes and periods of no flow.
SW15	Water	Ammonia (as N)	NA	Weekly	NA	mg/L	84.68	-21.50%	0	NA	Down time was primarily due to battery changes and periods of no flow.
SW15	Water	Total phosphorus	NA	Weekly	NA	mg/L	10.38	-22.00%	0	NA	Down time was primarily due to battery changes and periods of no flow.
SW15	Water	COD	NA	Weekly	NA	mg/L	9934	-10.80%	0	NA	Down time was primarily due to battery changes and periods of no flow.
SW15	Water	volumetric flow	NA	24 hour	NA	m3/day	1396631085	16.00%	0	NA	Down time was primarily due to battery changes and periods of no flow.
SW15	Water	Total Dissolved Solids	NA	Weekly	NA	mg/L	508131	24.00%	0	NA	Down time was primarily due to battery changes and periods of no flow.

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:	P0501-01	Year	2012
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Bund testing

dropdown menu click to see options

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**

1 Please provide integrity testing frequency period

2 Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore")

3 type units and mobile bunds

4 How many of these 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?

Additional information	
Yes	Included are details of bund test results, however going forward only new and failed bunds will be included.
2 Yearly	
Yes	
4	
4	
6	
6	
No	
0	
0	
0	
NA	
NA	

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)
501-07-04	reinforced concrete		Gas Oil	62040	11000	Hydraulic test		Feb-12	Yes	Fail	The bund at Rossan bog failed its hydraulic test	Repaired crack	Mar-13	NA
501-37-01	reinforced concrete		Gas Oil	110592	49500	Hydraulic test		Jan-11	Yes	Pass		NA	Mar-13	
501-08-03	reinforced concrete		Gas Oil	70380	49500	Hydraulic test		Sep-11	Yes	Pass		NA	Mar-13	

Has integrity testing been carried out in accordance with licence requirements and are all structures tested in

14 line with BS8007/EPA Guidance?

15 Are channels/transfer systems to remote containment systems tested?

16 Are channels/transfer systems compliant in both integrity and available volume?

[bundings and storage guidelines](#)

Commentary	
Yes	
NA	
NA	

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**

2 Please provide integrity testing frequency period

No	
NA	

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:

P0501-01

Year

2012

	Comments
1 Are you required to carry out groundwater monitoring as part of your licence requirements?	no
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	yes Domestic use
4 Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12	yes
5 Is the contamination related to operations at the facility (either current and/or historic)	yes Historic
6 Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	We plan to correlate all historical groundwater results and trend them comparing them to IGV'S and 2010 groundwater regs. Based on the trends we will suggest possible further groundwater monitoring.
7 Please specify the proposed time frame for the remediation strategy	yes
8 Is there a licence condition to carry out/update ELRA for the site?	N/A
9 Has any type of risk assesment been carried out for the site?	N/A
10 Has a Conceptual Site Model been developed for the site?	yes
11 Have potential receptors been identified on and off site?	no
12 Is there evidence that contamination is migrating offsite?	yes
	no

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
							SELECT				SELECT
							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

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
							SELECT				SELECT

Groundwater/Soil monitoring template				Lic No: P0501-01		Year 2012				
					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	Drinking water (private supply) standards	Drinking water (public supply) standards	Interim Guideline Values (IGV)

Groundwater/Soil monitoring template

Lic No:

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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:	P0501-01	Year	2012
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[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

		Commentary	
1	ELRA initial agreement status	Not a licence requirement	
2	ELRA review status	NA	
3	Amount of Financial Provision cover required as determined by the latest ELRA	NA	
4	Financial Provision for ELRA status	NA	
5	Financial Provision for ELRA - amount of cover	NA	
6	Financial Provision for ELRA - type	NA	
7	Financial provision for ELRA expiry date	NA	
8	Closure plan initial agreement status	Required but not submitted	
9	Closure plan review status	Review required and completed	
10	Financial Provision for Closure status	Required but not submitted	
11	Financial Provision for Closure - amount of cover	NA	Internal Budget Provision
12	Financial Provision for Closure - type	Other please specify	Budgeted Financial Provision
13	Financial provision for Closure expiry date	2030	

Environmental Management Programme/Continuous Improvement Programme template			Lic No:	P0501-01	Year	2012
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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	Internal unaccredited EMS.
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	Continue to train all employees in environmental matters. Training will be by means of a new four module training programme delivered by dedicated Bord na Mona	70	In total 30 Personnel received training in 2012. There was one haydraulic harrows deployed at Derryhinch bog.	Individual	Reduced emissions
Waste reduction/Raw material usage efficiency	Waste streamlining is a project we are particularly interested in pursuing and hope to reduce wastes in the future and be more efficient in dealing with all aspects of waste management	100	Installed a waste management system. Quarterly waste reports are returned for records/filing and waste streams are segregated on site to maximise recycling potential.	Section Head	Improved Environmental Management Practices
Materials Handling/Storage/Bunding	Increased bund provisions will be provided where required during 2012	100	A new waste oil handling process was adopted. The former self banded waste oil tank is not used anymore. Instead a new banded waste oil container was fabricated and waste oil is now stored in more manageable barrels and stored in the structure while awaiting collection.	Individual	Reduced emissions
Waste reduction/Raw material usage efficiency	Continue with the recycling of polyethylene. The sourcing of more recycling contractors will be ongoing.	100	In total 133.88 tonnes were sent off site for recycling. Procurement also exploring the possibility of securing further recyclers.	Individual	Improved Environmental Management Practices

Environmental Management Programme/Continuous Improvement Programme template				Lic No:	P0501-01	Year	2012
Energy Management	As part of an energy management process, a review of energy aspects will take place identifying the significant energy users of the licensee.	60	As expected gas oil used in the production and transportation of peat is the most significant energy user followed by electrical consumption at workshops and bog pumps.	Section Head	Improved Environmental Management Practices		
Reduction of emissions to Water	Continue to train all employees in environmental matters. Training will be by means of a new four module training programme delivered by dedicated Bord na Mona Training Specialists. This new training programme includes Environmental Compliance – IPPC, Biodiversity, Archaeology and Energy Management. Hydraulic harrows will be deployed at Derryhinch, Ballivor and Rossan bog during the 2012 production season. Continue with the collection of headland peat, particularly at dust sensitive locations.	70	In total 30 Personnel received training in 2012. There was one hydraulic harrows deployed at Derryhinch bog.	Individual	Improved Environmental Management Practices		

Noise monitoring summary report

Lic No: P0501-01

Year

2012

1 Was noise monitoring a licence requirement for the AER period?

No

If yes please fill in table N1 noise summary below

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

NA

3 Does your site have a noise reduction plan

NA

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?

NA

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 <u>site</u> 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)

Resource Usage/Energy efficiency summary

Lic No:

P0501-01

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

[SEAI - Large Industry Energy Network \(LIEN\)](#)

yes	
NA	Not a licence requirement

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)	9596	6631	-74%	-31%
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	306	367	-74%	16.60%
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	904.218	606.371	-74%	-33%
Natural gas (CMN)				
Coal/Solid fuel (metric tonnes)	20	20	-74%	0%
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 ³ /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr
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)	32.85		3.15	29.7	
Non-Hazardous (Tonnes)	479.68	23.31		233.98	222.39

Resource Usage/Energy efficiency summary	Lic No:	P0501-01	Year	2012
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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:

P0501-01

Year

2012

Complaints

Additional information

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

No

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

Additional information

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

Yes

*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	Likelihood of reoccurrence
16/07/2012	Breach of ELV	Licenced discharge point (SW15)	1. Minor	Water	Adverse weather		Normal activities	EPA	New	Compared results prior to and after event, all of which were within elv's.	Ensure silt pond is maintained as per licence condition.	Complete	Jul-12	Low
11/10/2012	Other(EPA audit findings)	Waste records incomplete	1. Minor	NA	Other (add details)	Missing paperwork	Normal activities	EPA	New	Waste management provider informed of importance of returning all required paperwork.	Ensure quarterly reports contain all required paperwork	Complete	Nov-12	Low
11/10/2012	Other(EPA Audit findings)	Licenced discharge point (DN 6,SW6)	1. Minor	Water	Operational controls		Normal activities	EPA	New	Silt pond desilted the following week	Ensure all ponds are cleaned when required	Complete	Oct-12	Low
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT

Complaints and Incidents summary template		Lic No:	P0501-01	Year	2012
Total number of incidents current year					3
Total number of incidents previous year					2
% reduction/increase	33% increase				

WASTE SUMMARY	Lic No:	P0501-01	Year	2012
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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

.-+ 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					

*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

SELECT

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	

**Derrygreenagh
Decommissioning and Rehabilitation
AER Overview 2012.**

Decommissioning work extended to the lifting, removal and recycling of obsolete rail line in Derryarkin bog. A shelter belt was also planted at Ballybeg bog in response to a historical dust issue. In relation to rehabilitation, draft rehabilitation plans have been drawn up for all licensed areas and are available on file with the local environmental co-ordinators. The plans will be submitted to the EPA for review in April 2013.

Consultation with statutory and non-statutory consultee's is ongoing as part of Bord na Mona rehabilitation planning under its Biodiversity Objective. A review day of the Bord na Mona Biodiversity Action Plan 2010-2015 for the period 2012 was held in January 2013 and attended by up to 90 interest groups including members of the NPWS, BWI, EPA, Bord na Mona, Coillte, ESBi, IPCC, Golden Eagle Trust, Butterfly Conservation Ireland, NARGC, local game councils, Midland Regional Planning Authority as well as a range of local community groups and Heritage Officers from counties Laois, Offaly, Kildare, Roscommon, Longford, Meath, Galway, Westmeath and Dublin.

BNM Group:	Derrygreenagh		2012	
IPC Licence No.	501			
pH (units)				
	Jan - Mar	Apr - June	July - Sept	Oct - Dec
SW 46	6.8	7.2	6.7	6.5
SW 31	6.8	7.1	6.8	6.7
SW 26	6.6	7.1	7.7	6.9
SW 4	7.5	7.7	7.5	7.4
SW4A	7.4	7.7	7.4	7.3
SW 13	7.6	8	7.7	7.6
COD (mg/l)				
	Jan - Mar	Apr - June	July - Sept	Oct - Dec
SW 46	94	105	123	112
SW 31	83	74	94	106
SW 26	46	56	64	125
SW 4	60	54	64	63
SW4A	68	62	71	75
SW 13	46	41	32	49
Ammonia as N (mg/l)				
	Jan - Mar	Apr - June	July - Sept	Oct - Dec
SW 46	1	0.99	1.1	0.81
SW 31	0.6	0.26	0.48	0.43
SW 26	0.68	1.03	0.04	0.27
SW 4	1.81	1.43	0.68	1.9
SW4A	1.12	1.33	1.5	1.3
SW 13	1.27	1.02	0.51	1.1
Total Phosphorus (mg/l)				
	Jan - Mar	Apr - June	July - Sept	Oct - Dec
SW 46	0.05	0.05	0.05	0.05
SW 31	0.05	0.05	0.05	0.05
SW 26	0.05	0.05	0.05	0.13
SW 4	0.05	0.05	0.05	0.05
SW4A	0.05	0.05	0.05	0.05
SW 13	0.05	0.05	0.05	0.05
Suspended Solids (mg/l)				
	Jan - Mar	Apr - June	July - Sept	Oct - Dec
SW 46	5	5	7	5
SW 31	5	5	5	5
SW 26	5	5	5	5
SW 4	10	5	5	5
SW4A	5	5	5	5
SW 13	7	5	5	5
Total Solids (mg/l)				
	Jan - Mar	Apr - June	July - Sept	Oct - Dec
SW 46	172	240	172	152
SW 31	160	190	140	170
SW 26	141	194	302	269
SW 4	154	410	365	340
SW4A	230	296	292	212
SW 13	456	526	478	456

Colour (pt Co Units)				
	Jan - Mar	Apr - June	July - Sept	Oct - Dec
SW 46	326	394	502	426
SW 31	369	378	421	454
SW 26	189	247	191	393
SW 4	158	162	211	156
SW4A	300	254	329	296
SW 13	94	88	118	80
Flow (l/s)				
	Jan - Mar	Apr - June	July - Sept	Oct - Dec
SW 46	8	12	4	12
SW 31	7	15	11	28
SW 26	5	4	7	18
SW 4	10	11	12	20
SW4A	3	6	3	5
SW 13	22	38	22	25

Yard Discharge Results 2012		
Licence: P0501-01		
Works: Derrygreenagh		
Month	D/Greenagh SWE 2 COD	Rossan SWE 1 COD
Jan	49	97
Feb	18	13
Mar	25	NF
Apr	35	28
May	20	23
June	13	122
July	32	16
Aug	43	34
Sep	28	19
Oct	32	80
Nov	49	20
Dec	54	35

Note: NF denotes no flow at emission point on day of sampling



| PRTR# : P0501 | Facility Name : Bord na Mona Energy Limited | Filename : P0501_2012(1).xls | Return Year : 2012 |

[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.15

REFERENCE YEAR	2012
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1. FACILITY IDENTIFICATION

Parent Company Name	Bord na Mona Energy Limited
Facility Name	Bord na Mona Energy Limited
PRTR Identification Number	P0501
Licence Number	P0501-01

Waste or IPPC Classes of Activity

No.	class_name
1.4	The extraction of peat in the course of business which involves an area exceeding 50 hectares.

Address 1	Derrygreenagh
Address 2	Rockfordbridge
Address 3	Mullingar
Address 4	Co Westmeath
	Westmeath
Country	Ireland
Coordinates of Location	-7.25676 53.3910
River Basin District	IEEA
NACE Code	0892
Main Economic Activity	Extraction of peat
AER Returns Contact Name	Enda Mc Donagh
AER Returns Contact Email Address	enda.mcdonagh@bnm.ie
AER Returns Contact Position	Head of Environment
AER Returns Contact Telephone Number	0579345911
AER Returns Contact Mobile Phone Number	0862370816
AER Returns Contact Fax Number	0579345160
Production Volume	63364.0
Production Volume Units	Tonnes
Number of Installations	6
Number of Operating Hours in Year	2216
Number of Employees	60
User Feedback/Comments	
Web Address	www.bnm.ie

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General

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
--	----

26/03/2013 15:09

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

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

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

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4.2 RELEASES TO WATERS [Link to previous years emissions data](#)

| PRTR# : P0501 | Facility Name : Bord na Mona Energy Limited | Filename : P0501_2012(1).xls | Return Year : 2012 |

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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 concerns Releases from your facility

RELEASES TO WATERS					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

* 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		Method Used			QUANTITY				
No. Annex II	Name	M/C/E	Method Code		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
						0.0	0.0	0.0	

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

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

RELEASES TO WATERS					Please enter all quantities in this section in KGs												
POLLUTANT					QUANTITY												
			Method Used		SW46	SW31	SW26	SW4	SW4A	SW13	SW15		A (Accidental)	F (Fugitive)			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	Emission Point 2	Emission Point 3	Emission Point 4	Emission Point 5	Emission Point 6	Emission Point 7	T (Total) KG/Year	KG/Year	KG/Year			
240	Suspended Solids	E	OTH	G/19 Based on ALPHA.1998,20th Edition, Method 2540D	1561.0	2404.0	1340.0	2611.0	670.0	4639.0	9053.0	22278.0	0.0	0.0			

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

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

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

* 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# : P0501 | Facility Name : Bord na Mona Energy Limited | Filename : P0501_2012(1).xls | Return Year : 2012]

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Please enter all quantities on this sheet in Tonnes

3

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	01 01 02	No	222.39	wastes from mineral non-metalliferous excavation	D1	E	Volume Calculation	Onsite of generation	Bord na Mona Energy Ltd,P0501-01	Derrygreenagh,Rochfortbridge,Mullingar,Co Westmeath,Ireland		
Within the Country	02 01 04	No	133.88	waste plastics (except packaging)	R5	M	Weighed	Offsite in Ireland	Leinster Environmental Ltd,WP 2008/06	Haggardstown,Dundalk,Co Louth,,Ireland		
To Other Countries	08 01 11	Yes	0.0	waste paint and varnish containing organic solvents or other dangerous substances	R1	C	Volume Calculation	Abroad	Enva Ireland Ltd,184-1	Estate,Portlaoise,Co Laois,,Ireland	Nehlsen,D33300040,Hehlsen ,,,,,,Germany	Hehlsen,,,,,,Germany
To Other Countries	11 01 13	Yes	0.0	degreasing wastes containing dangerous substances	R11	C	Volume Calculation	Abroad	Safety Kleen Ltd,99-1	Tallaght,,,,,,Ireland	Solvent Recovery Management,PP33345F,Wh eeland Rd,Knottingly,West Yorks,WF11 8DZ,United Kingdom	Wheeland Rd,Knottingly,West Yorks,WF11 8DZ,United Kingdom
Within the Country	13 02 05	Yes	28.3	mineral-based non-chlorinated engine, gear and lubricating oils	R1	C	Volume Calculation	Offsite in Ireland	Enva Ireland Ltd,184-1	Clonminam Ind Estate,Portlaoise,Co Laois,,Ireland	Enva Ltd,184-1,Clonminam Industrial Estate,Portlaoise,Laois,,Ireland	Clonminam Industrial Estate,Portlaoise,Laois,,Ireland
Within the Country	15 01 03	No	7.68	wooden packaging absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	R1	M	Weighed	Offsite in Ireland	AES Ltd,WP-OY-08-061-01	Cappincur,Tullamore,Co Offaly,,Ireland		
To Other Countries	15 02 02	Yes	1.95	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	R1	C	Volume Calculation	Abroad	Enva Ireland Ltd,184-1	Clonminam Ind Estate,Portlaoise,Co Laois,,Ireland	Lindenschmidt,Reg no E97095037,IINDENSCHMIDT,Kreuztal,,,,Germany	IINDENSCHMIDT,Kreuztal,,,,Germany
To Other Countries	15 02 02	Yes	1.2	dangerous substances	D10	M	Weighed	Abroad	Enva Ireland Ltd,184-1	Clonminam Ind Estate,Portlaoise,Co Laois,,Ireland	KWA,Reg no E17012100,Lintfort,,,,,,Germany	Lintfort,,,,,,Germany
To Other Countries	16 01 07	Yes	1.4	oil filters	R4	C	Volume Calculation	Abroad	Enva Ireland Ltd,184-1	Clonminam Ind Estate,Portlaoise,Co Laois,,Ireland	R.D. Recycling,Reg no 51727/1/KD,Houthalen,,,,,,Belgium	Houthalen,,,,,,Belgium
To Other Countries	16 06 01	Yes	0.0	lead batteries	R6	M	Weighed	Abroad	Enva Ireland Ltd,184-1	Clonminam Ind Estate,Portlaoise,Co Laois,,Ireland	Recycling,MLAV/05-173/GVDA,Beerse,,,,,,Belgium	Beerse,,,,,,Belgium
Within the Country	17 04 07	No	92.42	mixed metals batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these	R4	M	Weighed	Offsite in Ireland	AES Ltd,WP-OY-08-061-01	Cappincur,Tullamore,Co Offaly,,Ireland		
To Other Countries	20 01 33	Yes	0.0	batteries	R4	M	Weighed	Abroad	KMK Metals,W0113-03	Tullamore,Co Offaly,,,,,Ireland	KMK Metals Ltd,W0113-03,Tullamore,,,,,Offaly,Ireland	Tullamore,,,,,Offaly,Ireland
Within the Country	20 03 01	No	17.04	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	AES Ltd,WP-OY-08-061-01	Cappincur,Tullamore,Co Offaly,,Ireland		
Within the Country	20 03 01	No	6.27	mixed municipal waste	D1	C	Volume Calculation	Offsite in Ireland	AES Ltd,WP-OY-08-061-01	Cappincur,Tullamore,Co Offaly,,Ireland		

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