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Environmental Protection Agency
OEE Castlebar

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Annual Environmental Report 2006 P0504-01

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Contents

1.0 Introduction

- 1.1 IPC Licence Register No
- 1.2 Name & Location of Site
- 1.3 Brief Description of Activities
- 1.4 Environmental Management of the Company
- 1.5 Environmental Policy Statement

2.0 Summary Information

- 2.1 Emissions to Water Summary
 - 2.1.1 Silt Pond Emissions
 - 2.1.2 Yard Discharges
 - 2.1.3 Composite Sampler Report
 - 2.1.4 Emissions to Water Non-compliance's

2.2 Emissions to Air Summary

- 2.2.1 Dust Monitoring
- 2.2.2 Emissions to Air Non-compliance's

2.3 Waste Arising

- 2.3.1 Non-Hazardous Waste
- 2.3.2 Hazardous Waste

2.4 Energy and Water Consumption

2.4.1 Energy Consumption

2.5 Environmental Incidents and Complaints

- 2,5,1 Incidents
- 2.5.2 Complaints

3.0 Management of the Activity

1

- 3.1 Environmental Management Programme Report
- 3.2 Environmental Management Programme Proposal
- 3.3 Environmental Expenditure

4.0 Licence Specific Reports

- 4.1 Surface Water Discharge Monitoring Location Programme Review
- 4.2 Bunding Programme
- 4.3 Boiler Combustion Efficiency
- 4.4 Resource Consumption Summary
- 4.5 Report on de-silting Programme
- 4.6 Bog Development and Operational Programme
- 4.7 Bog Rehabilitation Report
- 4.8 Archaeological Report

5.0 Summary

Appendix 1: Emissions to Water Monitoring Results. (Bogs)

Appendix 2: Emissions to Water Monitoring Results. (Yards)

Appendix 3: Emissions to Water Monitoring Results. (Composite)

Appendix 4: Emissions to Air Monitoring Results.

Appendix 5: Boiler Efficiency Results

Appendix 6: De-silting Programme Review

1.0 Introduction

1.1 IPPC Licence No

504

1.2 Name & Location of Site

Name:

Bord na Mona Energy Limited.

Address:

Mountdillon Group

C/o Mountdillon Works

Lanesboro
Co. Longford.

Telephone No:

043 21117 Fax No 043 21259

Contact Name

Paul Riordan

Position

Manager

National Grid Reference

E204720 N268880

1.3 Description of Activities

Peat Milling Operations.

For milled peat production the bog is laid out in a series of rectangular fields of varying length and 15m wide with drains located between. There are essentially four operations involved in milled peat production:

Milling.

Harrowing.

Ridging.

Harvesting.

Milling.

Special milling machines work there way along the fields, milling approximately 15mm of peat of the top of the bog in a pass.

Harrowing

In the course of drying, the milled peat is turned a number of times to avail of the drying conditions. This is achieved with a machine called a harrow. The milled peat is harrowed until its moisture content is down to approximately 40-50%, which can take up to two to three days, weather depending.

Ridging

The dry peat is then scraped into long ridges running down the centre of each field. This is done with a ridger, a machine consisting of a series of blades in the shape of a v that opens the full width of the field.

Harvesting

During harvesting every eleventh field is used to stockpile the peat, with this field receiving the milled peat from the five fields either side.

The milled peat is then transported via the existing network of peatland railways or via road to the following location.

Power station

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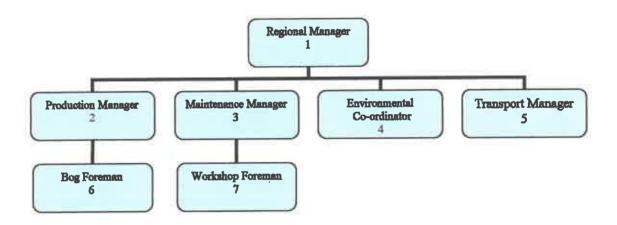
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1.4 Environmental Management of the Company

The organisational structure within the Mount Dillon Group is presented in the flow chart below.

Group Environmental Responsibilities



- (1) Overall environmental responsibilities
- (2) All production related issues
- (3) Machine maintenance
- (4) Co-ordinating environmental affairs
- (5) All peat transportation matters
- (6) Environmental issues relating to peatlands.
- (7) Environmental issues relating to Workshops.

1.5 Environmental Policy



Bord na Mona Energy Limited is a commercial semi-state body with responsibility to develop Irelands peat resources in the national interest.

Bord na Mona Energy Limited is committed to gather and make available information on all aspects of its environmental impact and to help improve understanding among the public generally of its role and the importance of Irish peatlands.

Bord na Mona Energy Limited recognises the importance of peatland conservation.

Bord na Mona Energy Limited will leave behind all areas it owns as either an economically or socially integrated resource of a high environmental value.

Bord na Mona Energy Limited seeks to conduct all aspects of its buisness in an environmentally sensitive value.

Bord na Mona Energy Limited will establish an environmental management system specifically addressing the following impacts.

Discharges to water.
Emissions to atmosphere.
Waste disposal.
Use of natural resources.
Noise, vibration, odour, dust and visual effects.
Natural environment and eco-system.

The environmental management system will be monitored, maintained and continually improved.

A system of regular environmental audits will be put in place.

Bord na Mona Energy Limited will continue research and development into all aspects of its environmental impact.

This statement is published and is available at all locations within the division and its contents are brought to the attention of all employees.

2.0 Summary Information

2.1 Emissions to Water Summary

2.1.1 Silt Pond Emissions (Quarterly Grab)

Comment

Surface water monitoring was carried out four times during the reporting period. In total analysis was carried out at seven different locations. These locations are as follows, Clonshannagh @ SW8, Granaghan @ SW23, Begnagh @ SW55, Cloneeney @ SW61, Derrycolumb @ SW88, Derryshanoge @ SW94 and Loughbannow @ SW95. The parameters measured during each sampling event were as follows.

Total Phosphorus, Total Solids, Suspended Solids, pH, Ammonia, Colour and COD.

In general results were constant across all parameters at each monitoring location.

May was the wettest month of 2006 with rainfall of 142.5mm being recorded, while June was the driest with 26.2mm recorded.

The quarterly grab sampling programme proved to be 100% compliant for the year as was the 2005 regime.

pH values were between 6.2 and 8.2, with normal emission limit values being of the range 6 and 9.

Suspended solids varied from 5mg/l to 27mg/l and would depend on activities (piping, ditching) etc in the catchments at the time of sampling. All are within the licence limit of 35mg/l.

Ammonia levels were constant across all monitoring locations and were well below average in relation to waters emanating from peatlands.

COD readings were consistent across all sampling locations during the reporting period, with slightly elevated results being recorded in the third quarter when flow rates were at their lowest. Flow rates were far greater during the last quarter sampling event, but this does not seem to have any great adverse effect on any of the parameters.

Total Phosphorus results were all within quality guidelines.

Sampling will continue at the same locations during 2007.

Surface Water Results are contained in Appendix 1

2.1.2 Yard Discharges (Monthly Grab)

Comment

Yard runoff monitoring took place at six different locations during the reporting period. Sampling frequency was monthly and COD was the parameter requiring analysis. As is evident from the graph, on several occasions no sample was available on the day of sampling. This was due to no flow at the emission point and the catchments being so small.

In general results were normal with the exception of Cuil na Gun SWE1 during the October monitoring event. On investigation of that result, no obvious cause could be found. As a precaution results from that location will be closely monitored and should any further high results be found a more intensive investigation will take place.

Sampling will continue at the same locations during 2007.

Yard Emission Results are contained in Appendix 2

2.0 Summary Information

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2.1.1 Silt Pond Emissions (Quarterly Grab)

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Surface water monitoring was carried out four times during the reporting period. In total analysis was carried out at seven different locations. These locations are as follows, Clonshannagh @ SW8, Granaghan @ SW23, Begnagh @ SW55, Cloneeney @ SW61, Derrycolumb @ SW88, Derryshanoge @ SW94 and Loughbannow @ SW95. The parameters measured during each sampling event were as follows.

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Sampling will continue at the same locations during 2007.

Yard Emission Results are contained in Appendix 2

2.1.3 Composite Sampler Report

Comment

The composite sampler has been operating at SW76 during the reporting period.

The parameters measured were Total Phosphorus, Total Solids, Suspended Solids, pH, Ammonia, Colour and COD, with Suspended solids being the only parameter with an emission limit value (35mg/l). In general result were satisfactory with no non-compliances being recorded for the period.

May was the wettest month of 2006 with rainfall of 142.5mm being recorded, while June was the driest with 26.2mm recorded.

Due to the ongoing compliance at the site a proposal to relocate the composite sampler during 2007 will be submitted to the agency, as a suitable site has been identified at Derraghan bog SW96. This site because of its nature has the potential to give more accurate flow data when it becomes operational.

Composite Sampler Results are contained in Appendix 3.

2.1.4 Emissions to Water Non-compliance's

IPPC Licence: P0504-01

Works: Mount Dillon

Туре	Non- Compliances	Location / SW Nr
Composite	0	
Quarterly Grab	0	
Monthly Yard	NA	
Totals	0	

Note: Emission Limit Value = 35mg/litre

2.2Emissions to Air

2.2.1 Dust Monitoring

Comment

Dust monitoring was carried out on three occasions between June and September. Each monitoring event lasted between 28 and 32 days and the Bergerhoff method of analysis was used.

The monitoring locations were as follows, Edera and Cloonshanagh. Slightly elevated results were detected during the July - August monitoring event at Cloonshanagh. This can be expected as production would have been at its most intense at this time. It should also be noted that all results were below the emission value of 350 mg/m²/day set out in the licence and no complaints were received in relation to dust. Hydraulic harrows and headland harvesters were deployed at both locations during the production

Sampling will continue at the same locations during 2007.

Dust Monitoring Results are contained in Appendix 4.

2.2.2 Emissions to Air Non-compliance's

IPPC Licence: P0504-01

Works: Mount Dillon

Location / DM Nr	Non-Compliances
Edera / DM01	0
Cloonshanagh / DM02	0
Total	0

2.2 Waste Arisings

2.3.1 Non Hazardous Waste

Non Hazardous Waste Data

IPPC Licence: IPPC P 0504

Works: Mount Dillon

2006

Туре	Tonnes	EWC Code	Contractor	Licence Nr
Skips	16.6	20 03 01	Mulleadys Ltd	S/E 152/2002
Wheelie Bins	0.00	20 03 01	AES	053/OY/39/02
Polyethiene	250.60	02 01 04	Leinster Environmentals	WP 2004/30
Scrap Steel	346.50	17 04 07	Hammond Lane	050/OY/162/0 4
Timber Pallets	0.00	15 01 02	Kiawa Ltd	WP/TN/24
Silt Pond Cleanings	1267.73	01 01 02	Bord na Mona	IPPC P 0499
Peat Screenings	1491.86	01 01 02	Bord na Mona	IPPC P 0499
Totals	3373.29			

Note: Polyethylene and Steel are recycled.

2,3.2 Hazardous Waste

Hazardous Waste Data

Licence: P0504-01

Works: Mount Dillon

Туре	Tonnes	EWC Code	Contractor	Licence Nr	Destination
Waste Oil	8.65	13 02 05	Enva Ireland Ltd Portlaoise	184-1	Portlaoise
Oll Filters	2,31	16 01 07	Enva Ireland Ltd Portlaoise	184-1	Portlaoise
Oily Rags	0.00	15 02 02	Enva Ireland Ltd Portlaoise	184-1	Portlaoise
Waste Grease	0.00	13 08 99	Enva Ireland Ltd Portlaoise	184-1	Portlaoise
Lead Acid Batt	3.92	16 06 01	Returnbatt		
Ni Cad Batt	0.13	16 06 02	Returnbatt		
Primary Batt	0.08	16 06 03	Retumbatt		
Fluorescent Tubes	0.00	20 02 21	Enva ireland Ltd Portlaoise	184-1	Portlaoise
Parts Wash	0.00	11 01 13	Safety Kleen, Tallaght, Dublin	99-1	Dublin
Asbestos	0.00	17 06 05			

Total 15.10

2.4 Energy and Water Consumption

2.4.1 Energy

Energy Consumption

Licence:	P0504-01
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Works: Mt Dillon				
Units	Diesel (Litres)	Petrol (Litres)	Electricit y (Units)	Peat Briquettes (Tonnes)
Totals	1448856	2718	1542	25
MW Hours	14187.8	24.5706	1.542	125
Total MW Hours	14338.9			

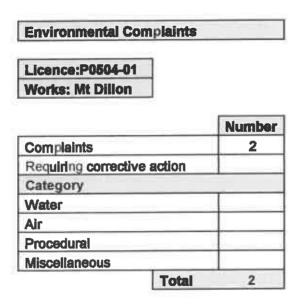
2.5 Environmental Incidents and Complaints

2.5.1 Incidents

Licence: P0504-01	
Works: Mt Dillon	
	Number
Incidents	1
Requiring corrective action	Yes
Category	
Water	
Air	Yes
Procedural	
Miscellaneous	
Total	1

Refer to Environmental Notification Form and Environmental Corrective/Preventive Action Form Ref. No. CA-504-005 sent to E.P.A. on 12 June 2006

2.5.2 Complaints



- 3.0 Management of the Activity
- 3.1 Environmental Management Programme Report 2006

3.1 Achievement of Objectives & Targets

Project	Description & Status
Project 1: Reduction of fugitive dust emissions.	Training. Achieved. Training in Mountdillon was provided for all seasonals in 2006, this was in the form of a Cleaner Production Video.
	Hydraulic Harrows. Ongoing. Hydraulic harrows worked well in Mountdillon D.S.L.'s in 2006. One extra harrow was introduced for the 2006 production season in Lough Bannow Bog. There are two working in Edera Bog, one in Derryadd Bog and one in Cloontuskert, they have proved successful in helping to reduce dust generation on Headlands.
	Headland Peat Collection. Ongoing. Mountdillon Works has one extra Headland harvester unit operating for the 2006 production season, this brings the number of units to three, two mechanical bin type harvesters and one haku type, there was a total of 7,828 tonnes of headland peat collected in 2006.
Project 2: Minimisation of suspended solids	On Site Inspections. Project didn't materialise. Will commence at start of production 2007.
Project 3: Effective spill leak management of mobile fuelling units.	On Site Inspections. Project didn't materialise. Will commence at start of production 2007. Mountdillon overhauled two service trains during 2006
Project 4: Reuse of silt pond waste.	Trials. Trials in the past proved unsuccessful. For peat silt to be reused, it must be available on the production bog for transfer into the piles. 99 % of all silt ponds are located on the outfall. Another factor is contamination, as these ponds are excavated into the mineral soil to achieve gravity drainage, and as such the silt excavated from the pond is contaminated with mineral soil. Should suitable bog come into production in the future, this project will be considered.

Identify Recyclers. Ongoing
Polythene for recycling has been collected from around the production areas, and stockpiled at a hard surface area for baling/collection. A new mechanical method of stripping piles and rolling the polythene on a spool was developed. There was 250 tonnes of polythene recycled in Mountdillon during 2006 with Leinster environmentals Ltd. Dundalk
Planting. Ongoing ALL D.S.L.'s have been identified within Mountdillon. A programme of tree planting was undertaken in 2005 and 2006 a total of 3700 trees were planted in 2005 and 500 trees planted in 2006.

3.2 Environmental Management Programme Proposal for 2007

3.2 Environmental Management Programme Proposal 2007

Project	Description & Status
Project 1: Reduction of fugitive dust emissions.	Training. Continue to train all new employees in environmental matters. Copy environmental video to disk and distribute more widely. Hydraulic Harrows. Continue to supply hydraulic harrows. Prioritising dust sensitive locations. Headland Peat Collection. Continue with the collection of headland peat, particularly at dust sensitive locations. Supply more headland peat collection machinery as required and research efficient ways of collecting such peat for use as a saleable product.
Project 2: Minimisation of suspended solids	On Site Inspections. A full programme of internal audits will be carried out as soon as production commences. Particular emphasis will be put on cleaner production procedures, milling, harrowing, ridging, harvesting and loading.
Project 3: Effective spill leak management of mobile fuelling units.	On Site Inspections. As part of the above project, service trains will also be prioritised with a fitter accompanying the auditor during inspections to highlight any risks or potential risks that may occur.
Project 4: Tre Prevention.	Fire Patrols. There will be extra emphasis on fire patrols this coming production season. Research on improved fire fighting techniques will also be investigated. The newly adopted Fire and Environmental Plan will be communicated to all personnel.
Project 5: Collection storage and reuse of polyethylene.	Identify Recyclers. Continue with the recycling of polyethylene. The sourcing of more recycling contractors will be ongoing. Todate in 2007 Mountdillon has recycled 60 tonnes with Leinster Environmentals Ltd
Project 6: Provision of measures to protect Dust Sensitive Areas.	Planting. Ongoing Planting is ongoing as required, with areas in the periphery of production bogs that are being developed for housing being prioritised. We will continue to monitor the bergerhoff dust gauge's for 2007

3.3 Environmental Expenditure

Environmental Expenditure

Licence:P0504-01	
Works: Mt Dillon	

Description	Cost €
Capital Costs	4389
Silt Control (wages + mats)	150660
Analytical & Consultancy Costs, (lab costs)	7973.62
EPA Fees,	9180.45
Bog Rehabilitation,	0
Total	€172203.07

4.0 Licence Specific Reports

4.1 Surface Water Discharge Monitoring Location Programme Review

The surface water discharge monitoring location programme has been submitted and accepted by the agency in July 2000. Three sampling locations have been changed in 2004 and the Agency notified. Monitoring will be carried out at these locations in the forthcoming year.

4.2 Bunding Programme

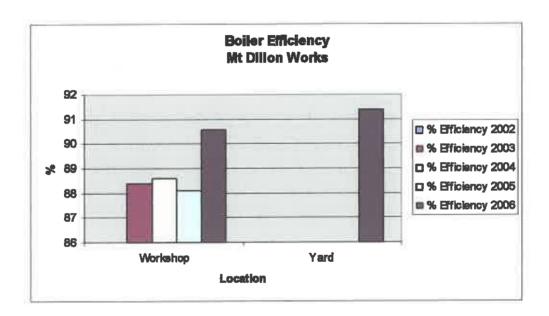
All bunds have been tested, the bund at the Power Station and the bund at Cuil na Gun workshop have been passed, the bunds at Mountdillon workshop and Mountdillon yard have failed, a programme of work has been put in place to remedy same and this will be carried by sept 2007

4.3 Boiler Combustion Efficiency

Boiler Emissions

Licence: P0504-01
Works: Mt Dillon

Boiler Location	% Efficiency 2002	% Efficiency 2003	% Efficiency 2004	% Efficiency 2005	% Efficiency 2006
Workshop		88.4	88.6	88.1	90.6
Yard					91.4



Boiler at the main Workshop and Mountdillon Yard have been tested by Boiler Services Allenstown Broadway Co. Wexford on 19/10/06.

The actual test results are contained in Appendix 5.

4.4 Resource consumption summary

	Resource Cons	sumption	
lcence: P0504-01			
Works: Mount Dillon			
Product	Tonnes Produced	Tonnes Sold	Customer
Milled Peat	660337	740717	ESB
Totais	660337	740717	ESB

	Proposed Product 2007	ion
lcence: P0504-01		
Works: Mount Dilion		
Product	Proposed Target	
Milled Peat	690000	
Totals	690000	

Production tonnage has reduced from 2005 to 2006 by 185,643 tonnes

4.5 De-Silting Report

The De-silting programme worked well during 2006 with all ponds receiving at least two cleanings Silt Pond Cleaning Programme attached in Appendix 6.

4.6 Bog Development and Operational Programme

There are two bogs under development in the Mountdillon group of bogs namely Milkernagh and Cuil na gCun both bogs are covered by adequately sized silt ponds which are cleaned at least twice a year

4.7 Bog Rehabilitation Report

There has been no Bog Rehabilitation carried out in Mountdillon Bogs during 2006

4.8 Archaeological Report

There has been no archaeological surveys carried out in Mountdillon in 2006.

5.0 Summary

With regard to environmental compliance at the Mountdillon Group of Bogs, there were no exceedences in the quarterly grab sampling of the ponds in the Surface Water Discharge Monitoring Location Programme. There was no non compliance in relation to the Composite Sampler during thr period of jan to the end of December. Mountdillon received two complaints in relation to dust monitoring

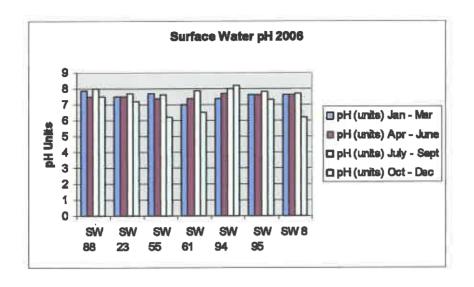
We intend to build on the success of 2006 and increase our efforts to minimise the impact of our operations on the locality. We have greatly improved our fire prevention and fire fighting capabilities in line with experience gained from the bog fires in june of 2006

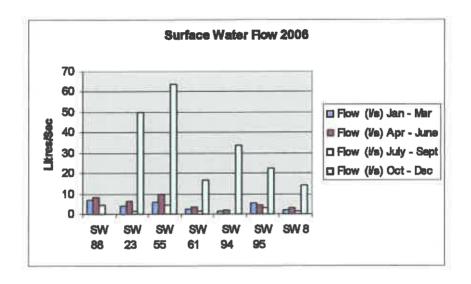
Staff training will again be an important and ongoing part of our Environmental Management System

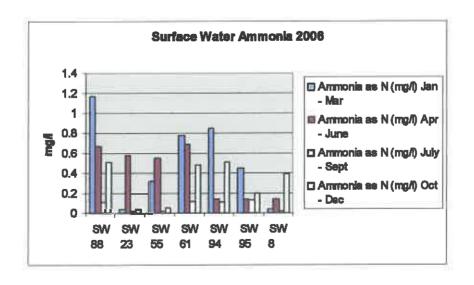
Bord na Mona Energy Ltd would like to take this opportunity to advise the Environmental Protection Agency of its continued commitment to improving its environmental performance by adopting cleaner production metods and improving its environmental protection measures

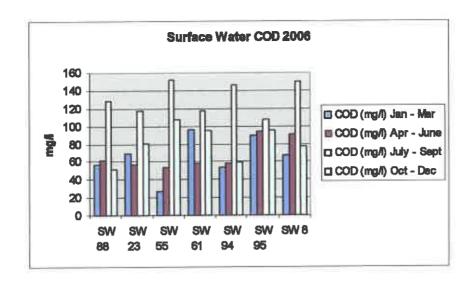
APPENDIX 1

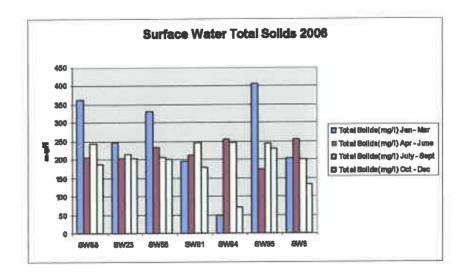
Surface Water Discharge Monitoring Results Bogs

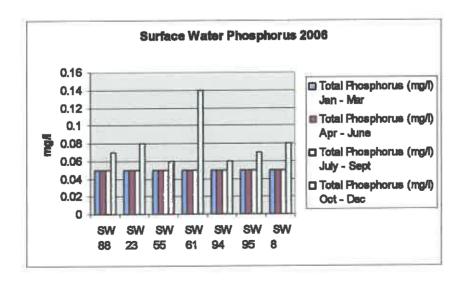


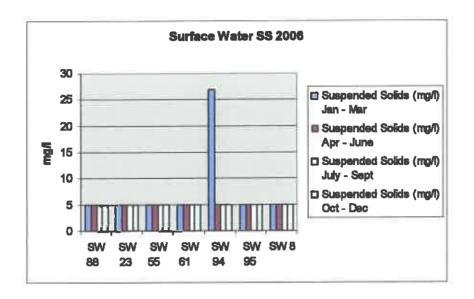












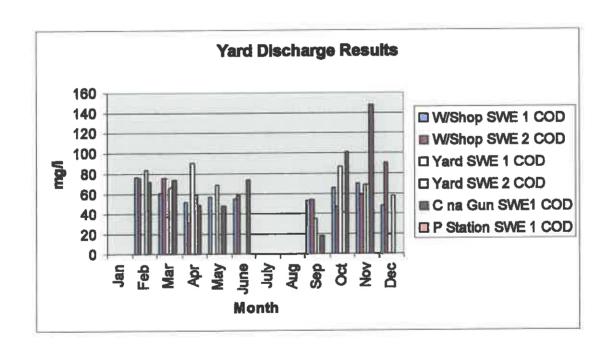
APPENDIX 2

Surface Water Discharge Monitoring Results Yards

Yard Discharge Results

Licence: F	P0504-01					
Works: Mi	Dillon					,
Month	W/Shop SWE 1 COD	W/Shop SWE 2 COD	Yard SWE 1 COD	Yard SWE 2 COD	C na Gun SWE1 COD	P Station SWE 1 COD
Jan						
Feb	77	76		83	72	
Mar	61	76	37	66	74	
Apr	52	32	90	59	49	
May	57		69		48	
June	55	59			74	
July						
Aug						
Sep	53	54	35		18	
Oct	86	47	86	41	101	
Nov	70	59	69	69	148	
Dec	48	90	19	58		

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



APPENDIX 3

Surface Water Discharge **Monitoring Results** Composite

Bord Na Mona Energy Ltd, Mountdillon C v , Lanesboro, Co Longford

Composite Sampler Results

Month				Parameters		THE THE					Damy Lotals		The second second
Januar	Hid	COD	Ammonia a		Suspended	Total	Colonr	Mow	000	Ammonta as	Total	Suspended	Total
2006		1/8H	Neg	Phosphorus	Solids	Solids	S .	Dailly	Kg/Day	Kg/Day	Phosphorus	Solids	Solids
SW 76				mg/l	l/gm	mg/l	units	Total (litres)			Kg/Day	Kg/Day	Kg/Day
_		t	1	-	2	300	1	1634863				8.17	490.46
2	ı		-		12	306	-	1138070				13.66	348.25
-		-	-		5	332	1	920906				4.75	315.70
	8.2	20	0.02	0.05	5	318	121	768474	15.37	0.02	0.04	3.84	244.37
-		,			6	264		617078				5.55	162.91
		1	-		5	230	-	705112				3.53	162.18
-					5	333		680200	00.00	00.00	00.00	3.40	226.51
	1				12		-	286424				3.44	0.00
-	,	1	1	-	17	336	'	1037609				17.64	348.64
10	,	,		-	24		-	1534896				36.84	0.00
11	8.1	62	0.02	0.05	15	318	104	1534896	95.16	0.03	0.08	23.02	488.10
12	1	1	-	,	5	352	-	1534896				79.7	540.28
13	-		-		5	384	ı	1534896				79.7	589.40
4					15	310		1534896	00:00	0.00	0.00	23.02	475.82
15					5	378		1534896				79.7	580.19
16	-	1		-	2	374	-	1553187				77.77	580.89
17		1	-		5	264	1	1516587				7.58	400.38
18	7.8	99	0.02	0.05	5	168	147	1495033	83.72	0.03	0.07	7.48	251.17
19					10	374	-	1371217				13.71	512.84
20		1	ı	-	5	280	1	1604681				8.02	449.31
-					5	334		1327297	0.00	00.00	0.00	6.64	443.32
22					5	376		1236508				6.18	464.93
23		1	-	1	5	326		1172858				5.86	382.35
24	1			-	5	324	1	1162685				5.81	376.71
25	7.6	59	0.02	0.05	5	264	122	1248755	73.68	0.02	0.06	6.24	329.67
26	1	1	,	-			-	1073656					
27	ı	-	-	-			١.	1083514					
28	-		-				1	870367					
29	SOCIETY OF							946879					
30		-	-				1	764379					
-	1	1		٠			1	1054228					

Bord Na Mona Energy Ltd, Mountdi r roup, Lanesboro, Co Longford Composite Sampler Results

Month		No. of Concession, Name of Street, or other Persons and Persons an		Parameters	A CONTRACTOR OF THE PERSON NAMED IN	Commence					Daily Totals	District of	
Pohonom	3	COD	I mimamia	Total	Suspended	Total	Colour	Flow	COD	Ammonia a	Total	Suspended	Total
2006		l/sm	N mg/l	Phosphorus	Solids	Selids	Pi Ce	Dailly	Kg/Day	Kg/Day	Phosphorus	Solids	Solids
SW 76		0	0	l/gm	112/1	l/gm	unita	otal (litres)			Kg/Day	Kg/Day	Kg/Day
		1					ı	1001821				00.00	0.00
- 2					5	198	ı	991027				4.96	196.22
ım					00	308		990727	0.00	0.00	0.00	7.93	305.14
4					9	292		984667	0.00	0.00	00.00	5.91	287.52
· LC					5	266		984319				4.92	261.83
· (C	1			ŀ	2	220	ı	979612				4.90	215.51
7			ŀ		5	264	-	983700				4.92	259.70
. 00	8.2	41	1.26	0.05	5	216	92	961268	39.41	1.21	0.05	4.81	207.63
5					5	320	,	936392				4.68	299.65
\$ 5					15	50		932854				13.99	46.64
5 5					2	160		944617	0.00	00.00	0.00	4.72	151.14
: 2					2	162		1217630	0.00	00.00	0.00	60.9	197.26
i &	1			1	6	202	1	1171449				10.54	236.63
2 4			-	ŀ	000	284	1	1364893				10.92	387.63
ń.	8.5	58	0.02	0.07	20	126	62	1721733	99.86	0.03	0.12	34.43	216.94
2 4				ŀ	14	362		1704253				23.86	616.94
14	1			-	9	336	-	1523855				9.14	512.02
. 6	1	,			=	310	1	1245129				13.70	385.99
5 6	1	-	-		6	340		973820				8.76	331.10
20		·		-	90	280	-	806584				14.52	225.84
2.1					6	294		810887				7.30	238.40
22	8.2	49	0.02	0.05	21	238	101	730662	35.80	0.01	0.04	15.34	173.90
23		ŀ						679581				00.00	0.00
24	ı		-				,	840708				00.00	0.00
25								651635	0.00	0.00	00.00	00.00	0.00
26		ŀ					1	787910				00.00	0.00
27				-			-	715474				00.00	00.00
28	1	1		1				387053				0.00	0.00
29		1		ı			1					0.00	0.00
30	1	,	1	-	-	1	•						
31			-	1		1	1						
		-											

Bord Na Mona Energy Ltd, Mountdi roup, Lenesboro, Co Longford

Composite Sampler Results

omposi	Te Sam	omposite sampler Kesuits	LIES								Daily Totals		
Month				Farameters			and Co.	(Chow)	COD	A mmonits a	Total	Suspended	Total
March	hu	COD	Ammonia as	Total	Suspended	16331		F. C.	Wallbay.	Ke/Day	Phosphorus	Solids	Solids
2006		L/Sun	V mg/l	Phosphorus	Solids	Solids	31	Establish (1997)	W. C. Cary	Will hard	Ka/Dav	Ke/Dav	Kg/Day
SW 76				mg/l	l/am	l/gm	Unduta	otal (attres)	•		18	à	
-	-		1	1			1	64397					
		1	-	-			1	622469					
								454486	0.00	00.00	0.00	0.00	0.00
,			1	_			1	.459995					
r u								452225					
ם מ						-		651278					
0 1								1152630					
,	'	-						1100412	00.0	0.00	00.00	00.00	00.0
œ (7.0	17	1 08	0.05	2	323	118	1091059	51.28	1.18	0.05	5.46	352.41
ס .	[2]							890189	00.00	0.00	00'0	00.00	00.00
9								677445					
=	1		,					ETTANE					
12	-	-	-	1	-			24744					
13								6//445					
14	t	,				-	1	677445					
r.		L			-	1		677445					
<u> </u>	7.8	50	0.03	0.05	5	462	126	325206	16.26	0.01	0.02	1.63	150.25
47	,			-	-	1	1	47611					
- 6			-			1	,	37343					
2 5		-		1		1	,	22098					
20 00								812490				00.00	0.00
3								2120140				0.00	0.00
77								397047				00.00	0.00
22			-		6	313		547321	0.00	00:00	0.00	2.74	171.31
23					, / ~	398		536362	L	0.00	00.0	2.68	196.31
24					, 6	330		528642	Ŀ	0.00	0.00	2.64	174.45
25					5	246		1197745		00.00	00.0	5.99	294.65
56					,	CPC		1955361	000	0.00	0.00	9.78	473.20
27						310		953440	1	0.00	0.00	5.72	295.57
28	C	777	0.73	0.05	23	302	112	583757		H	0.03	3 13.43	176.29
53	7.0	20	Ciro		وا	288		2004171	_	0.00	00.00	12.03	577.20
30					0 0	266		7811002	L	0.00	0.00	20.60	747.73
31			_		2			7	J				

II oup, Lanesboro, Co Longford

Bord Na Mona Energy Ltd, Mountdil! Composite Sampler Results

CODE Numeronic at Total Singlet Total Collour Total To	Month		7		Parameters			Section Section				Daily		
	A mil	2	AUC)	e eimocra	Total	Susmended	Total	Celour	Flow	COD	Ammonia a	Tetal	Suspended	Total
National N	2006		llao/l	N 107	Phosnhorus	Selids	Solids	Pt Co	Pally	Kg/Day	Kg/Day		Selids	Solids
8 326 - 2190744 175.8 71 8 326 - 219074 - 117.83 71.83 71.83 71.83 71.83 71.83 71.83 71.83 71.83 71.44 37.44 37.44 37.80 - 20250. 60.00 0.00 0.00 3.74 32.44 <td>W 76</td> <td></td> <td></td> <td></td> <td>1/6111</td> <td>Fig.01</td> <td>l/am</td> <td>units</td> <td>Fotal (litres)</td> <td></td> <td></td> <td>Kg/Day</td> <td>Kg/Day</td> <td>Kg/Day</td>	W 76				1/6111	Fig.01	l/am	units	Fotal (litres)			Kg/Day	Kg/Day	Kg/Day
No. No.	-	1	1	,		00	326	-	2190744				17.53	714.18
10 10 10 10 10 10 10 10						E	392		2022501				22.25	792.82
8.8 51 0.38 0.05 11 416 106 647264 34.03 0.26 0.05 7.34 7.20 00 0.00 0.00 0.00 0.00 7.34 27.20 00 0.00	1 67		-	-		5	350	,	1618696				8.09	566.54
8.8 51 0.38 0.05 11 416 106 667255 34.03 0.25 0.03 7.34 27	4		,	.	-	5	392		947324				4.74	371.35
No. No.	ıc	00.00	51	0.38	0.05	-	416	106	667255	34.03	0.25	0.03	7.34	277.58
8.1 8.5 4.34 748035 0.00 0.00 0.00 3.74 3.24 8.1 8.1 8.5 2.36 0.00<	· (c		-	-					720202				0.00	0.00
8.1 8.5 434 718597 0.00 0.00 0.00 3.58 314 8.1 8.1 8.5 4.34 178 25236 0.00 <td>, ,</td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td>434</td> <td></td> <td>748035</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>3.74</td> <td>324.65</td>	, ,					5	434		748035	0.00	0.00	0.00	3.74	324.65
8.1 8.5 2.55296 0.00 <t< td=""><td>. a</td><td></td><td></td><td></td><td></td><td>5</td><td>434</td><td></td><td>716597</td><td>00.00</td><td>0.00</td><td>0.00</td><td>3.58</td><td>311.00</td></t<>	. a					5	434		716597	00.00	0.00	0.00	3.58	311.00
8.1 85 2.36 0.06 7 314 178 2.252696 0.00 0.0	0			-					596314	0.00	0.00	0.00	0.00	0.00
8.1 85 2.36 0.06 7 314 178 2058348 174.70 4.85 0.12 14.39 640 8.1 8.5 2.36 0.06 7 314 178 2058348 174.70 4.85 0.12 14.39 640 8.1 5 366 366 0.00	, ç								225296	0.00	0.00	00.0	00.0	00.0
8.1 85 2.36 0.06 7 314 178 2055348 174,70 4.85 0.01 0.00 6.	2 +								730019	00.0	0.00	0.00	0.00	00.00
161228 0.00 0.00 0.00 0.00 8.06 59 350 350 366 39 3610 0.00 0.00 0.00 0.01 11 38645 0.00 0.00 0.00 0.01 11 38645 0.00 0.00 0.00 0.01 11 38645 0.00 0.00 0.00 0.01 11 38645 0.00 0.00 0.00 0.00 12 3510 0.00 0.00 0.00 0.00 12 3510 0.00 0.00 0.00 0.00 12 3510 0.00 0.00 0.00 0.00 12 3610 0.00 0.00 0.00 0.00 12 3610 0.00 0.00 0.00 0.00 12 3870 0.00 0.00 0.00 0.00 0.00 12 3870 0.00 0.00 0.00 0.00 0.00 12 3870 0.00 0.00 0.00 0.00 0.00 12 3880 0.00 0.00 0.00 0.00 0.00 12 3880 0.00 0.00 0.00 0.00 12 3880 0.00 0.00 0.00 0.00 12 3880 0.00 0.00 0.00 0.00 12 3880 0.00 0.00 0.00 12 3880 0.00 0.00 0.00 0.00 12 3880 0.00 0.00 0.00 0.00 0.00 0.00 12 3880 0.00 0.	12	×	85	2.36	90.0	7	314	178	2055348	174.70	4.85	0.12	14.39	645.38
8 418 38845 0.00 0.00 0.00 0.19 1 8 46 0.63 0.05 5.4 372 67 59342 0.00	1 5					5	366		1612289	00.00	00.00	00.00	8.06	590.10
No. No.	4					5	418		38845	00.00	00.00	00'0	0.19	16.24
Section Sect	r.					6	350		606072	0.00	0.00	0.00	5.45	212.13
8 46 0.63 0.05 0.00	16								36100	00.00	00.00	00.00	0.00	00.00
8 46 0.63 0.05 5 372 67 59344 2.73 0.04 0.00	17								22781	0.00	00.00	0.00	0.00	0.00
8 46 0.63 5 372 67 59344 2.73 0.04 0.00 0.30 2.3 2 - - 45 423 - 46483 0.00 0.00 0.00 22.96 21 - - - 19 386 - 46483 0.00 0.00 0.00 0.00 22.96 21 - - - 19 386 - 565784 0.00 0.00 0.00 0.00 0.00 - - - 5 348 - 1836 0.41 0.03 2.67 18 - - - - - - - - 0.00 - - - - - - - - - 0.00 0.00 0.00 0.00 0.00 - - - - - - - - - 0.00	200								893029	0.00	0.00	0.00	00.0	00.00
45 423 46483 0.00 0.00 0.00 22.96 21 19 386 46483 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.	00	46	0.63	0.05	5	372	<i>L</i> 9	59344	2.73	0.04	00.00	0.30	22.08
19 386 46483 000 0.00 19 386 65784 0.00 0.00 5 348 18434 0.00 0.00 0.00 8.6 59 0.76 0.05 5 346 71 53477 31.55 0.41 0.03 2.67 18	20.					45	423		510184	0.00	00:00	00.00	22.96	215.81
19 386 655784 0.00 0.00 5 348 565784 0.00 0.00 5 348 18434 0.00 0.00 8.6 59 0.76 0.05 5 346 71 534777 31.55 0.41 0.03 2.67 18 700 </td <td>24</td> <td>ı</td> <td> -</td> <td></td> <td> </td> <td></td> <td></td> <td>L</td> <td>46483</td> <td></td> <td></td> <td></td> <td>00.00</td> <td>00.00</td>	24	ı	-					L	46483				00.00	00.00
<	22		Ŀ	,		19	386	1	0				00.00	0.00
- - - 5 348 - 18434 - 18434 - 0.09 - 0.09 - 0.09 - 0.09 - 0.09 - 0.09 - 0.09 - 18365 0.41 0.03 2.67 18 -<	23		ı		-	r		-	565784					
8.6 59 0.76 0.05 5 346 71 53477 31.55 0.41 0.03 2.67 - <td< td=""><td>24</td><td>-</td><td>Ŀ</td><td>-</td><td>-</td><td>5</td><td>348</td><td>1</td><td>18434</td><td></td><td></td><td></td><td>0.09</td><td>6.42</td></td<>	24	-	Ŀ	-	-	5	348	1	18434				0.09	6.42
8.6 59 0.76 0.05 5 346 71 534777 31.55 0.41 0.03 2.67 - <t< td=""><td>25</td><td>1</td><td>1</td><td></td><td></td><td>1</td><td>1</td><td>1</td><td>18365</td><td></td><td></td><td></td><td></td><td></td></t<>	25	1	1			1	1	1	18365					
* + +	26	9.8	59	0.76	0.05	5	346	71	534777	31.55	0.41	0.03		185.03
11 366 5 358 1	27	ı	ı	-	-		t	1						
11 366 5 358 5 358	28	-	1	1	1		1	-	*					
358	29			-	1	11	366	-	*					
	30	1	1	1	1	2	358	1	*					
	31		1		1	1		-	*					

Internal battery problem

oup, Lanesboro, Co Longford

Bord Na Mona Energy Ltd, Mountdill Composite Sampler Results

Wonth		THE REAL PROPERTY.	Fill Parille Source				0.0	COO	o oime	Total	Spanended	Total
Ma	COB	Ammonia a	Total	Suspended	Total	Celour	Flow	3	V ELIMONIA N		Collina	Collide
L	1/Zm	N mg/l	Phosphorus		Solids	S	Dally	Kg/Day	Ng/Day	Ka/Dav	Ko/Pav	Ke/Dav
SW 76			l/gm	mg/l	nng/l	urnits	Total (litres)			INE LAND	tuni dina	
		-		6	382		16					
	ŀ		1	5	278		pe -					
7.9	46	9.0	0.05	5	252	107	D 4					
-	-	,	1	1	1		• •					
		1					*					
							**					
							*					
							*					
					200	114	*					
 	22	0.36	0.05	c	380	41	*					
							*					
							*					
							*					
							*					
15							*					
							*					
							*					
18							*					
							*					
					0,0		*					
				2	797		*					
				0	707		,					
24 8	73	0.42	0.05	5	256	1772						
25				10	320		. ,					
26				6	338							
27	-			5	324		*:					
28	L			2	330		*					
29				2	366		*					
30	-	-		5	394		*					
0 1	A7	0.71	0.33	5	422	155	*					

Internal battery problem

oup, Lanesboro, Co Longford Bord Na Mona Energy Ltd, Mountdil!

Composite Sampler Results

fourth				Par smeters					THE STREET	THE STREET, SALES	á		
June	H	COD	Ammonie a	Total	Suspended	Total	Colour	Flow	600	Ammonia a		92	Total
9002		Ngm	N mg/l	三	Solids	Solids	P. Co	Bally	Kg/Day	Kg/Day	Phosphorus	-1	Molids
SW 76				mg/l	mg/l	mg/l	stica	otal (litres)			Kg/Day	Kg/Day	Neg Day
_													
2													
3					2	350		+ 4					
4						007		٠ ،					
2					2	408		. 4					
9								F. 4					
7	8.2	70	0.04	0.05	2	444	33		V				
80								1					
o,													
10		1000000						. ,	•				
11								+ 1					
12													
13								+ 1					
14								R- 1					
15								+ 1					
16													
17					2	401		+ 1					
18					5	386							
19					5	330		H					
20								H -					
21								H - 1					
22													
23													
24													
25													
26													
27													
28								* +					
29	7.9	95	0.28	0.07	2	832	144						
30													
									000	00.0	00.0	00.00	00.0

Internal battery problem

oup, Lanesboro, Co Longford Bord Na Mona Energy Ltd, Mountdil' Composite Sampler Results

Month				Parameters		The second second	TO SERVICE STATE OF THE PARTY O				,		
Tell	11.7	COB	4 minimum a	Total	Susmentaled	Total	Celour	Flow	COD	Ammonia	Tetal	Suspended	Total
2006	hit	mo/l	N mg/l	Phosphorus	Solids	80lids	2	Daily	Kg/Day	Kg/Day	Phosphorus		Solids
SW 76		ì			l/am	mg/l	units	otal (litres)			Kg/Day	Kg/Day	Kg/Day
-								*					
2								N					
60								+ *					
4								4					
2													
9	8.4	112	0.02	0.05	2	786	129	H 1					
7								R -					
8								*					
6								H 1					
10													
11								#					
12	8.2	119	0.05	0.05	2		116	*					
13								*					
14								+ +					
15								* -					
16													
17													
18													
19								*					
20								*					
21													
22								*					
23		A STATE OF THE PARTY OF THE PAR						*					
24													
25								*					
26								* •					
27													
28													
29								H 1					
30													
200								H-					

internal battery problem

Bord Na Mona Energy Ltd, Mountdil Aroup, Lanesboro, Co Longford Composite Sampler Results

Physical Bodids Soulds Pk Ce Dadily Kg/Day Kg		7	(4)		00	Tetai	Colour	Flow	COD	A mimonia a	Daily Totals Total		Total
7 366 5 334 5 338 5 380 6 390 6 390 6 390 7 366 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	N 1/gm	z	N mg/l	Phospherys		Solids mo/l	Pt C9	Dailly rotal disness	Kg/Day	Kg/Day	Phosphorus Ko/Day		Solids
7 366 5 354 5 358 5 358 5 360 8 8 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 8 8 9 8 9	-	1						*			ugu gu	Carlo Star	a diam
7 366 5 354 5 358 10 344 64 8 86 8 96 8 96	-	1						*					
5 354 5 358 5 358 5 358 6 390 5 352 5 364 61 5 352 5 364 61	-							#					
7 366 5 354 10 344 64 5 380 5 380 5 390 6 390 6 390 5 352								*					
5 354 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8								*	2				
5 354								*					
5 354 5 358 5 360 6 390 6 390 6 352 6 390 6 352 6 352 6 352 6 352 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5								*					
7 366 5 354								#					
5 354								4					
7 366 5 354 5 358 10 344 64 5 380 5 360 6 390 6 390 6 390 8 364 61								*					
5 354 5 358 10 344 64 5 380 5 380 6 390 6 390 6 390 6 390 7 364 8 4 61 8 5 364 8 6 390 8 5 364 8 6 390 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8								*					
7 366 5 354 5 358 10 344 64 5 380 5 30 6 390 6 390 6 390 5 364 61								*					
7 366 5 354 5 358 10 344 64 5 350 5 360 6 390 6 390 6 390 7 352 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8								*					
7 366 ** 5 354 ** 5 358 ** 5 380 ** 5 390 ** 6 390 ** 5 352 ** 7 364 61 ** 7 365 ** 8 352 ** 8 352 ** 9 352 ** 9 352 ** 9 352 **								*					
5 354								*					
5 354 5 358 10 344 64 5 352 5 380 5 380 6 390 6 390 5 352								*					
5 354					7	366		*					
5 354								*					
5 354								*					
5 358 5 344 64 5 352 5 380 6 390 6 390 5 364 61					5	354		#					
5 352 5 380 5 50 6 390 5 364 61 5 352					2	358		*					
5 352 5 380 5 50 6 390 5 364 61	28 0.	0	0.74	0.05	10	344	64	*					
5 352 5 380 5 50 6 390 5 364 61								*					
5 380 5 50 6 390 5 364 61					5	352		#					
5 50 6 390 5 364 61 5 352					5	380		*					
6 390 5 364 61 5 352					5	50		*					
6 390 5 364 5 352								*					
5 364					9	390		*					
+	32 1.	-	1.17	0.05	5	364	61	*-					
\dashv		1						*					
					2	352		*					

Bord Na Mona Energy Ltd, Mountdih _____ roup, Lanesboro, Co Longford Composite Sampler Results

September H. 2006 SW 76 1 2 3 4 4 5 7 7 10 11	COD mg/l	Ammonia a		Suspended	Total	Colour	100000	CON	Ammonia	Total	Commonwealer	otal
	mg/l	l/gm N					r tow	COD	Assessment of the last of the		anabence	
			Phosphorus		Solids	PrCc	Daily	Kg/Day	Kg/Day	Phosphorus	Solids	Collids
			1/āui	mg/l	mg/l	units	Fotal (litres)			Kg/Day	Kg/Day	Kg/Day
				5	342	100						
							+					
				5	330		*					
				5	320		*					
8 9 10 11	10	0.55	0.05	ς,	322	84	**					
9 9 11 11 11 11 11 11 11 11 11 11 11 11							#					
9 10 11 23							•					
10 11							*					
11							•					
4.0							*					
71							*					
13							*					
14				5	344		-					
15				5	364		*					
16				5	346		*					
17				5	358		*					
18				5	364		*					
19				9	348		*					
20 7.8	10	9.0	0.05	5	432	63	*					
21				5	322		*					
22				5	266		*					
23				2	252		*					
24				5	244		*					
25				10	260		*					
26				5	294		*					
27 7.5	47	0.02	0.05	21	334	121	*					
28				5	302		*					
29				5	320		*					
30				5	322		*					
31								0.00	00.00	00.00	00.0	0.00

* Internal battery problem

Lanesboro, Co Longford

Bord Na Mona Energy Ltd, Mountdillon C

Composite Sampler Results

8.2 48 0.02 8.2 55 0.02 8.1 46 0.24 8.1 46 0.24	Month				Persmeters							Daily I otals		
Mary Nangy Nangy	October	Ha	COD	Ammonia as	Total	Sugpended	Total	Colour	Fiow	COD	Ammonia as	Total	Suspended	Total
Region Right Rig	2006		1/2(1)	N mg/l	Phosphorus	Solids	Solids	Pt Co.	Daily	Kg/Day	Kg/Day	Phosphorus	Solids	Solids
8.2 48 0.02 0.05 5 288 8.2 28 119 8.2 35 0.02 0.05 5 334 8.2 55 0.02 0.05 5 334 7.7 75 0.02 0.05 5 334 7.7 46 0.24 0.05 5 386 8.1 46 0.24 0.05 5 386 8.1 46 0.24 0.05 5 386 8.1 46 0.24 0.05 5 386 8.1 46 0.24 0.05 5 386	91 WS				f/gm	mg/l	mg/l	ureits	Total (literes)			Kg/Day	Kg/Day	Kg/Da
8.2 48 0.02 0.05 5 288 8.2 48 0.02 0.05 5 288 119 5 288 119 5 252 119 5 337 110 5 338 117 119 5 334 110 7.7 75 0.02 0.05 29 268 101 5 364 7.7 75 0.02 0.05 29 268 101 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 8.2 55 366 8.3 366 8.3 366 8.3 366 8.3 366 8.4 46 0.24 0.05 5 366 8.5 366 8.7 366 8.8 366 8.8 366						5	304		*					
8.2 48 0.02 0.05 5 288 119 8.2 48 0.02 0.05 5 326 119 5 337 5 334 172 8.2 55 0.02 0.05 5 338 8.2 55 0.02 0.05 5 354 7.7 75 0.02 0.05 5 354 5 334 5 344 7.7 75 0.02 0.05 29 268 101 7.7 75 0.02 0.05 29 268 101 8.1 46 0.24 0.05 5 360 113 8.1 46 0.24 0.05 5 366 113 8.1 46 0.24 0.05 5 366 113 8.1 46 0.24 0.05 5 366 113 8.2 5 366 113 5 366 113 8 5 366 113 <td>2</td> <td></td> <td></td> <td></td> <td></td> <td>17</td> <td>334</td> <td></td> <td>*</td> <td></td> <td></td> <td></td> <td></td> <td></td>	2					17	334		*					
8.2 48 0.02 0.05 5 326 119 5 337 5 334 5 314 6 5 314 5 314 172 7 6 6.02 0.05 5 378 172 8.2 5 0.02 0.05 5 354 172 8.2 5 0.02 0.05 5 354 101 7.7 75 0.02 0.05 29 268 101 7 75 0.02 0.05 29 268 101 8.1 46 0.24 0.05 5 360 113 8.1 46 0.24 0.05 5 266 113 8.1 46 0.24 0.05 5 366 113 8.1 5 384 5 366 113 8.1 46 0.24 0.05 5 266 <td< td=""><td>က</td><td></td><td></td><td></td><td></td><td>5</td><td>288</td><td></td><td>*</td><td></td><td></td><td></td><td></td><td></td></td<>	က					5	288		*					
8.2 55 0.02 0.05 5 334 7.7 75 0.02 0.05 5 338 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 8 26 386	4	8.2	48	0.02	0.05	5	326	119	*					
8.2 55 0.02 0.05 5 334 8.2 55 0.02 0.05 5 338 7.7 75 0.02 0.05 29 268 7.7 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 268 8 1 46 0.24 0.05 5 366 8 2 266 8 2 266 8 3 2 266 8 3 3 2 266 8 3 3 2 2 266 8 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	r2					5	252		*					
8.2 55 0.02 0.05 5 314 8.2 55 0.02 0.05 5 338 7.7 75 0.02 0.05 29 268 7.7 75 0.02 0.05 5 344 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 8 380	9					5	337		*					
8.2 55 0.02 0.05 5 338 8.2 55 0.02 0.05 5 278 7.7 75 0.02 0.05 5 354 7.7 75 0.02 0.05 29 268 8.1 46 0.24 0.05 5 360 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 8.1 5 360 5 366 8.1 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8	7					5	314		*					
8.2 55 0.02 0.05 5 278 8.2 55 0.02 0.05 5 278 7.7 75 0.02 0.05 29 268 7.7 75 0.02 0.05 29 268 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 8 10 202 10 202 2 366	00					5	312		*					
8.2 55 0.02 0.05 5 278 5 364 5 332 5 334 7.7 75 0.02 0.05 29 268 7.7 75 0.02 0.05 29 268 8.1 46 0.24 0.05 5 344 8 46 0.24 0.05 5 360 6 380 6 380 7 7 7 202 8 7 202 5 366 8 7 203 266 8 7 203 266 8 7 203 266 8 7 203 266 8 7 203 266 8 7 203 266 8 7 203 266 8 380 366 380 8 380 366 366 8 380 366 380 8 380 380 366 8 380 380 380 8 380 380 380 8 <td>G,</td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td>338</td> <td></td> <td>*</td> <td></td> <td></td> <td></td> <td></td> <td></td>	G,					5	338		*					
8.2 55 0.02 0.05 5 278 5 364 5 364 5 332 332 5 354 5 354 7.7 75 0.02 0.05 29 268 7.7 75 0.02 0.05 29 268 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 8 7 266 380 5 266 8 8 7 298 366 8 8 8 3 366 8 8 3 366 366 8 8 3 3 366 8 8 3 3 3 3 8 8 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10					10	252		#					
7.7 7.5 0.02 0.05 29 364 8.1 46 0.24 0.05 5 354 8.1 46 0.024 0.05 29 268 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 8 5 360 5 366 8 6 380 6 380 8 6 380 6 380 8 6 380 6 380 8 8 8 366 5 366 8 8 8 8 366 5 366 8 8 8 8 8 366 5 366 5 366 5 366 5 366 5 366 5 366 5 366 5 366 5 366 5 366 5 366 5 366 5 366 5 366 5 366 5	+	8.2	55	0.02	0.05	5	278	172	*					
7.7 75 0.02 0.05 5 354 8.1 46 0.24 0.05 29 268 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 380 5 366 8 5 380 5 386 8 5 380 5 <td>12</td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td>364</td> <td></td> <td>*</td> <td></td> <td></td> <td></td> <td></td> <td></td>	12					5	364		*					
7.7 7.5 0.02 0.05 29 354 8.1 46 0.24 0.05 29 268 8.1 46 0.24 0.05 5 373 8.1 46 0.24 0.05 5 366 8.1 5 366 380 8.1 5 366 380 8.2 5 366 380 8.3 6 380 5 366 8 6 380 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 368 5 366 8 <t< td=""><td>60</td><td></td><td></td><td></td><td></td><td>5</td><td>332</td><td></td><td>*</td><td></td><td></td><td></td><td></td><td></td></t<>	60					5	332		*					
7.7 75 0.02 0.05 29 268 7.7 75 0.02 0.05 29 268 8.1 46 0.24 0.05 5 373 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 8 5 360 5 366 8 5 360 5 366 8 5 360 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 368 5 366 8 5 368 5 366 8 5 368 5 366 8 5 368 5 <td>4</td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td>354</td> <td></td> <td>*</td> <td></td> <td></td> <td></td> <td></td> <td></td>	4					5	354		*					
7.7 75 0.02 0.05 29 268 7.7 75 0.02 0.05 29 268 5 316 5 316 5 373 5 366 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 266 8.1 5 266 5 266 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 366 5 366 8 5 382 382	15					5	354		*					
7.7 75 0.02 0.05 29 268 5 316 5 316 5 366 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 266 6 380 6 380 7 5 266 8 5 298 8 5 366 8 5 366 8 5 366 8 5 386 8 5 386 8 5 386 8 5 386	16					5	344		*					
7.7 75 0.02 0.05 29 268 5 316 5 328 5 366 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 8 10 202 8 5 266 8 5 366 8 5 366 8 5 366 8 5 366 8 5 366 8 5 366 8 5 366 8 5 386 8 5 386 8 5 386 8 5 386 8 5 386 8 5 386 8 5 386 8 5 386 8 5 386 8 5 386 8 5 386 8 5 386 8 5 386 8 382	17								*					
8.1 46 0.24 0.05 5 386 8.1 46 0.24 0.05 5 360 6 380 6 380 7 266 7 266 8 380 8 380 8 380 9 380 9 380 9 380 9 380 9 380 9 380 9 380 9 380 9 380	18	7.7	75	0.02	0.05	29	268	101	*					
8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 8.1 5 366 8.1 5 366 8.1 6 5 366 8.1 7 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	19					5	316		*					
8.1 46 0.24 0.05 5 366 8.1 46 0.24 0.05 5 366 6 380 10 202 10 202 5 386 5 380 6 380 7 380 8 380 8 380 9 380 9 380 9 380 9 380 9 380	20					5	328		*					
8.1 46 0.24 0.05 5 384 8.1 46 0.24 0.05 5 366 6 380 6 380 6 380 6 380 6 380 7 202 8 266 5 266 5 366	21					5	366		*					
8.1 46 0.24 0.05 5 360 8.1 46 0.24 0.05 5 360 6 380 10 202 5 266 5 386	22					5	373		*					
8.1 46 0.24 0.05 5 360 6 380 10 202 5 266 5 386 5 266 5 386 5 386	23					5	384		*					
8.1 46 0.24 0.05 5 366 6 380 10 202 5 266 5 298 6 380 7 202 8 5 298 9 5 366 10 5 366 10 5 366 10 5 366 10 5 382	24					2	360		*					
10 5 5	25	8.1	46	0.24	0.05	5	366	113	*					
10 5	26					9	380		*					
N N N	27					10	202		*					
2 2 2	28					5	266		*					
2 2	29					5	298		*					
\$	30					5	366		#					
	31					5	382		*					

internal battery problem

Bord Na Mona Energy Ltd, Mountdillon (, Laneshoro, Co Longford

Composite Sampler Results

							The second secon						
November H	H COD	9	Ammonia as	Total	Suspended	Total	Colour	Flow	COD	Ammonia as	letel	Suspended	Total
2006	l/gm	1/2	NRW	Phosphoras	Solids	Solids	Pt Co	Deily	Kg/Day	Kg/Day	Phosphorus	Solids	Solids
SW 76				l/But	l/Bm	l/gm	trufts	Total (litres)			Kg/Day	Kg/Day	Kg/Day
1 7.7	99 1	5	0.31	0.05	5	358	210	*					
2	_							*					
8	-							#					
4								*					
10								*					
9							1000	#					
7								*					
8 7.7	7 53	-	0.35	0.29	5	394	96	*					
6	-				5	406		#					
10	-	-			5	420		*					
1		-			5	357		#					
12	-	t		-	5	370		#					
13	-	-			5	394		#					
14		-			5	374		*					
15 8.2	2 56		0.07	0.11	5	380	101	*					
16								#					
17								*					
18								*					
19								#					
20								#					
21	-	-						#					
22 5.8	8 112	2	0.03	0.07	5	144	364	*					
23					5	302		#					
24					5	314		*					100
25		T			5	296		*					
26					5	262		*					
27					2	272		*					
28					5	384		*					
29 8.1	1 73		0.03	0.07	5	302	132	*					
30		-							0.00	00.00	0.00	0.00	00.00
		H							000	000	000	000	000

internal battery problem

Bord Na Mon: Energy Ltd, Mountdillon Granesboro, Co Longford Composite Sampler Results

Color Colo	Composite Sampier Resuits	c Sampr	I NESAM	4		-			-			Duilly Parale		
1 COD Antonosis 56 1 1 1 1 1 1 1 1 1	Month				Parameters				· ·	000	1	Tretal	Contract of the contract of th	o Power D
The part The place The part The place The part The place The part The pa	December	Hd	COD	Ammonia as	Total	Suspended	Lotas	Colour	Flow	200	Ammonia as	TOTAL	Suspended	Torial
The color of the	2006		1/2111	N mg/l	Phosphorus	Solids	Solids	Pt Co	Dacy	Kg/Day	Kg/Day	Phosphorus	Sellids	Solids
7.9 80 0.02 0.05 25 288 187 6.9 108 0.22 0.12 216 155 8 0.08 0.06 13 241 8 0.08 0.06 18 324 8 0.08 0.06 5 241 19 306 13 241 19 306 155 300 10 278 155 10 278 16 10 278 17 10 278 17 10 278 17 10 278 17 10 278 17 10 278 17 10 278 17 10 278 17 10 278 17 10 278 24 10 278 24 10 278 24 10 278 24 10 278 24 10 278 24 10 278 24 10 278 24 10 278 24 10 27 24 </td <td>SW 76</td> <td></td> <td></td> <td></td> <td>mg/l</td> <td>l/gm</td> <td>l/gm</td> <td>units</td> <td>Total (litres)</td> <td></td> <td></td> <td>Kg/Day</td> <td>Kg/Dny</td> <td>Kg/Day</td>	SW 76				mg/l	l/gm	l/gm	units	Total (litres)			Kg/Day	Kg/Dny	Kg/Day
7.9 80 0.02 0.05 27 338 7.9 80 0.02 0.05 25 288 187 5 216 5 216 5 274 6.9 108 0.22 0.12 22 258 17 136 136 147 18 304 16 304 19 306 19 306 19 306 155 10 278 32 10 278 5 10 278 5 10 278 5 10 278 5 10 278 5 10 278 5 10 278 5 10 278 5 10 278 5 10 278 424 10 278 424 10 278 424 10 278 424 10 278 424 10 278 424 10 278 424 10 278 424 10 28 424 10 28	-					23	230		*					
7.9 80 0.02 0.05 25 288 187 6.9 108 0.22 0.12 22 228 6.9 108 0.22 0.12 22 228 8 228 147 10 236 147 11 236 147 12 236 147 13 241 234 14 304 306 15 334 324 16 278 332 17 342 332 10 278 5 10 278 5 10 278 17 17 342 17 342 17 342 17 342 17 342 17 342 17 342 17 342 17 342 17 342 17 342 18 109 19 100 10 274 44 424 10 274 44 424 10 274 10 274 </td <td>2</td> <td>-</td> <td></td> <td></td> <td></td> <td>38</td> <td>252</td> <td></td> <td>#</td> <td></td> <td></td> <td></td> <td></td> <td></td>	2	-				38	252		#					
7.9 80 0.02 0.05 25 288 187 5 216 5 176 5 176 5 274 6.9 108 0.22 228 147 6.9 108 0.22 0.12 236 147 8 228 8 228 9 108 0.22 0.12 236 147 19 304 14 304 10 278 306 155 10 278 330 332 10 278 5 330 10 278 5 332 10 278 5 342 10 278 17 17 10 278 24 424 10 278 24 424 10 278 24 424 10 27 24 424 10 27 24 424 10 27 24 424 10 27 24 424 10 27 24 424 10 27 24 424 10 27 2	က					=	378		*					
7.9 80 0.02 0.05 27 338 7.9 80 0.02 0.05 25 288 5 176 5 176 5 176 5 174 6.9 108 0.22 0.12 22 258 8 22 8 228 8 23 46 304 112 254 304 12 254 13 241 13 241 14 304 15 306 16 278 17 342 17 342 17 24 424 17 24 424 17 24 424 17 342 17 342 17 342 17 342 17 342 17 342 17 342 17 342 17 342 18 34 19 306 11 342 11 342 12 34 13 34 14<	4			-					*					
7.9 80 0.02 0.05 25 288 5 216 5 216 5 216 5 216 5 274 5 274 5 274 5 274 5 274 5 274 136 8 228 288 228 8 228 8 228 8 228 8 228 8 228 304 12 236 12 236 12 236 12 236 12 241 136 306 13 241 241 241 241 241 242 244 242 244 242 244 242 244 242 244 242 244 242 244 242 244 242 244 242 244 242 244 242 244 242 244 242 244 242 244 242 244 242 244 242 244 242 244 </td <td>rO.</td> <td></td> <td></td> <td></td> <td></td> <td>27</td> <td>338</td> <td></td> <td>*</td> <td></td> <td></td> <td></td> <td></td> <td></td>	rO.					27	338		*					
6.9 108 0.22 0.12 21 236 274 8 228 8	9	7.9	80	0.02	0.05	25	288	187	*					
6.9 108 0.22 0.12 21 258 6.9 108 0.22 0.12 21 236 8 228 8 228 8 228 304 10 236 304 11 236 304 12 254 306 13 241 324 10 278 300 10 278 332 10 278 5 330 10 278 5 332 10 278 24 424 17 342 24 424 17 342 24 424 17 342 24 424 17 342 24 424 18 36 176 176 18 37 24 424 19 37 36 36 10 27 424 424 11 37 36 36 11 37 <td>7</td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td>216</td> <td></td> <td>*</td> <td></td> <td></td> <td></td> <td></td> <td></td>	7					5	216		*					
6.9 108 0.22 0.12 21 228 8 228 8 228 8 228 304 17 136 304 46 304 12 236 12 254 13 241 14 324 16 306 17 342 10 278 5 330 5 332 6 0.06 5 70 74 0.02 0.06 13 176	00					5	176		*					
6.9 108 0.22 258 6.9 108 0.22 0.12 21 236 46 304 12 254 13 241 13 241 13 241 13 241 13 241 13 241 14 292 18 324 19 300 10 278 10 278 10 278 10 278 10 278 10 274 10 24 11 342 12 24 13 176 14 200 16 13 17 24 17 24 17 24 17 24 17 24 17 24 17 24 18 26 19 300 20 24 24 424 24 24 25 30 26 26 27 24 28 30<	Ç)					5	274		*					
6.9 108 0.22 0.12 21 236 8 228 8 228 8 228 10 0.02 0.12 21 236 11 236 11 254 11 3 241 11 292 11 292 11 292 11 292 11 31 292 11 31 31 17 342 17 7.9 74 0.02 0.06 13 176	10					22	258		*					
6.9 108 0.22 0.12 21 236 108 0.22 0.12 21 236 201 46 304 12 254 12 254 13 241 13 241 13 241 13 292 18 324 18 324 18 324 18 324 18 324 25 300 5 300 5 332 17 342 17 342 17 24 17 342 17 24 17 342 17 342 17 342 17 342 17 342 17 342 17 342 17 342 17 342 17 342 18 334 19 342 10 27 11 342 12 342 13 176 14 342 14 342 <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>17</td> <td>136</td> <td></td> <td>#</td> <td></td> <td></td> <td></td> <td></td> <td></td>	1					17	136		#					
6.9 108 0.22 0.12 21 236 46 304 12 254 12 254 13 241 13 241 13 241 13 241 13 241 13 241 18 324 18 324 18 324 10 278 5 300 5 332 5 332 5 332 5 24 424 7.9 74 7.9 74 7.9 700	12					00	228		*					
8 60 0.08 0.06 5 292 18 324 31 292 18 324 31 292 18 324 31 292 18 324 324 324 5 300 79 74 0.02 0.06 13 176 79 74 0.02 0.06 13 176	13	6.9	801	0.22	0.12	21	236	147	*					
8 60 0.08 0.06 5 292 18 324 8 60 0.08 0.06 5 296 5 300 7.9 74 0.02 0.06 13 176	14					46	304		*					
8 60 0.08 0.06 5 292 8 60 0.08 0.06 5 296 5 300 7.9 74 0.02 0.06 13 176	15					12	254		*					
8 60 0.08 0.06 5 296 18 324 18 324 18 324 7.9 74 0.02 0.06 13 176	16					19	306		#					
8 60 0.08 0.06 5 296 5 300 5 300 7.9 74 0.02 0.06 13 176	17					13	241		*					
8 60 0.08 0.06 5 296 5 300 10 278 5 332 7.9 74 0.02 0.06 13 176	130					31	292		#					
8 60 0.08 0.06 5 296 5 300 10 278 5 332 7.9 74 0.02 0.06 13 176	19					18	324		*					
7.9 74 0.02 0.06 13 176	20	00	09	0.08	90.0	5	296	155	*					
7.9 74 0.02 0.06 13 176	21					5	300		*					
7.9 74 0.02 0.06 13 176	22					10	278		*					
7.9 74 0.02 0.06 13 176	23					5	332		*					
7.9 74 0.02 0.06 13 176	24					17	342		*					
7.9 74 0.02 0.06 13 176	25					24	424		#					
27 *	26	7.9	74	0.02	90.0	13	176	109	#.					
28 29 30 31 31	27								*					
30 * * * * 31	28								#					
30 * *	29								*					
31	30					20000			Ħ					
	31								#					

Internal battery problem

- In May Apr Apr May 31/12/2005 23:59:00 - 01/07/2006 23:59:00 Mountdillon Composite Sampler January - June 2006 Flow (1079404001) Feb Jan 2006 s/s 40 25 – 15-10-5 35 30

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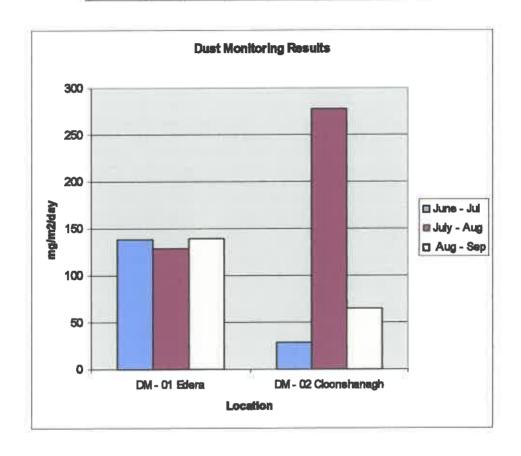
APPENDIX 4

Dust Monitoring Results.

Dust Monitoring Results

Licence:P0504-01	
Works:Mt Dillon 2006	

Sample Period	DM - 01 Edera	DM - 02 Cloonshanag h
June - Jul	138	29
July - Aug	129	278
Aug - Sep	139	65



APPENDIX 5

Boiler Efficiency Results



Boiler Services

SERVICE/COMMISSION

REPORT No. 4304



Allenstown, Broadway, Co. Wexford.

Tel.: 053 - 31308 • Mobile: 087 - 2604276

Industrial • Commercial & Domestic • Service & Repairs

• Oil & Gas • Free Estimates • 23 hour Call Out • V.A.T. No. IE 3505423T

CUSTOMER:

CLM DELANEY
SITE ADDRESS

RE: BORD NA MONA

MOUNT DILLON (1)

MOUNT DILLON (1)

MOUNT DILLON (1)

ANNESBOROUGH

(O LONG FOR)

lite: INVOICE Yellow: FILE Pink: SITE

ENGINEER
SIGNATURE
CUSTOMER
TEL-CONTACT
WORKING TIME

DATE 19/10/1006
O No/JOB No
MILEAGE

MATERIALS USED

4 oil Nozzles

BOILER No	No1		No2"		Noam		COMMENTS
BOILER TYPE & MAKE	1960	VXRU	CHAPPE	ENX	45		BOILERS.
OL . PUT	120	TWA.	70	OKJ			CLEANED & CHUCKED
SE, ¿L No	9722	01/5/0	0522	254614			BURNURY.
BURNER			Bello:				Cheanes out FILTERS
SERIAL No			02255				- REPLACED OIL NOSSE
GAS TRAIN SIZE REF	NI	17	N	7			Taliana a
FUEL		oil	Cy38 1	nil			POR GAS OF
BOILER No	No1		No2		No3		TOR GIN OUT
BURNER STATUS	LOW	HIGH FIRE	LOW	HIGH FIRE	LOW	HIGH	1
CO2	112	11.5	10.9	115			
00	0	O	0	O			
D2	6.0	6.1	5.8	61			
VOX				-			NO2 BoiLER!
FLUE TEMP GROSS	180	185	170	180			MOUNT DILLOW YARS
4' 'SIENT TEMP	12	12	12	12			
FL. TEMP NETT	168	173	158	166			SHUNT PUMP NOT
EFHICIENCY	887	90.6	84 6	914			WORKING NO POWER
FLUE DRAUGHT MB	2	1	2	1			TO RIMP
30ILER TEMP - C	75	75	7	75			
BAS INLET PRESS (STATIC)	-			and the same of th			
GAS INLET PRESS (RUNNING)		سند					AIR REQUIREMENTS BS6644
ONIZATION CURRENT UA	- American			· production of			TOTAL KW INPUT
BAS HEAD PRESS				demander			AIR REQUIREMENTS HIGH CM2
GAS RATE Pr3/M3h							LEVEL LOW CM ²
NOZZLE SIZE & TYPE	1.0	6.0	8.00	8 1)		AIR.AVAILABLE HIGH CM2
BMOKE No	(7	U	0	0			LEVEL LOW CM ²
DIL PUMP PRESS 13 A 12	12	12	12	12			CUSTOMER SIGNATURE
COMBUSTION CHAMBER PRESS	-27	1 5 mms	0	- 5 th			and M
AN STATIC PRESS							SIGNUM
VIR SETTING	1.8	42	2.	5_			PRINT: W CANAL
HEAD SETTING	2	2	2.5	2.5			PRINT: W L. A. of A.

APPENDIX 6

De-silting Programme Review.

Siltpond Cleaning Programme

IPPC Licence: P0504-01

Works: Mt Dillon

Bog Area & Nr Ponds	1 Cleanin g	2 Cleaning 8	3 Cleaning s	4 Cleaning s
Lough Bannow (6)		5		1
Derryadd (10)		9	1	
Derryaroge (13)		13		
Knappoge/Begnagh (18)		11	7	
Derrycolumb (10)		10		
Demyshanoge (9)		9		
Cloontuskert (15)		14	1	
Cioonshannagh (16)		16		
Mountdillon (16)		16		
Edera (6)		6		
Cuil na gCun (5)		3	1	1

