



Annual Environmental Report 2009
P0504-01

March 2010

Bord na Móna today operates 5 main subsidiary companies in more than 20 locations throughout Ireland, the UK and USA. The principal businesses are in the Energy, Resource Recovery, Horticulture, Home Heating and Wastewater Treatment and Air Pollution Abatement markets. The company also engages in an extensive rehabilitation program to develop its peat lands in an environmentally sustainable manner.

A NEW CONTRACT WITH NATURE

Bord na Móna has long recognised the need to diversify its activities in order to secure a sustainable future. In this context we identified the energy and resource recovery sectors as appropriate areas of growth and development, given our assets, strengths and skills. Significant challenges face Ireland in meeting the country's needs to provide secure sustainable energy and manage waste while minimising the impact on the environment.

Bord na Móna is in a strong position to contribute to dealing with these challenges. We have a unique mixture of assets, experience and innovation which will enable us to cross-link our activities in energy, water and resource recovery to provide products and services which will meet Ireland's needs. We also have the capacity to become an exemplar for others to follow in these fields.

With this background we have scoped out a new vision for the future sustainable development of Bord na Móna.

Following on from our vision, we have developed a new mission for Bord na Móna which the Company is committed to achieving.

In 1934 the Turf Development Board was formed to 'develop and improve the turf industry.' The experience of fuel shortages during the war re-enforced the Irish State's commitment to developing the country's bogs. In 1944 the TDB was asked to devise and submit a comprehensive programme, the outcome was the transformation in 1946 of the TDB into Bord na Móna. The Board was given a mandate to increase the use of peat as a fuel and in energy production. Markets for the use of moss peat in horticulture were also developed.

In 1990 Bord na Móna implemented a divisionalised and decentralised structure, designed to delegate responsibility downwards ensuring a sharper focus on each profit centre and a greater spirit of enterprise.

Group Vision



The vision statement defines the Company's purpose, in terms of its values.

Values are guiding beliefs about how things should be done.

The vision statement communicates both the purpose and values of Bord na Móna.

For employees, it gives direction about how they are expected to behave and inspires them to give their best. Shared with customers, it shapes the customers' understanding of why they should work with Bord na Móna.

Bord na Móna will seek solutions that optimise the creative energy and potential of the organisation, driven by long term goals and the organisation's vision and mission.

In this context our devolved business units will align their vision and strategic planning with the global direction provided.

Consistent with our vision, innovation will once again return to the core of everything we do. We will capitalise on opportunities to cross fertilise our unique range of skills and technologies that add value and are socially and environmentally sustainable.

Greater focus will be placed on managing and developing our land assets in a responsible and sustainable manner. Our award winning initiatives at Lough Boora (Co. Offaly) and Oweninny (Co Mayo), provide shining examples of what can be achieved

Group Mission

We conduct our affairs with openness, honesty and integrity.

We are Ireland's leading environmentally responsible integrated utility service provider encompassing electricity, heating solutions, resource recovery, water, horticulture and related services.

We capitalise on international opportunities where we have a competitive advantage.

We achieve continuing growth through superior customer service, outstanding quality and innovation delivered through the excellence and commitment of our people.

We engage in sustainable profitable business in the communities we serve, which is rewarding and challenging for employees and other stakeholders.

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1.0 Introduction

1.1 IPPC Licence No P0504-01

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 Danny Murray

Position Resource 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

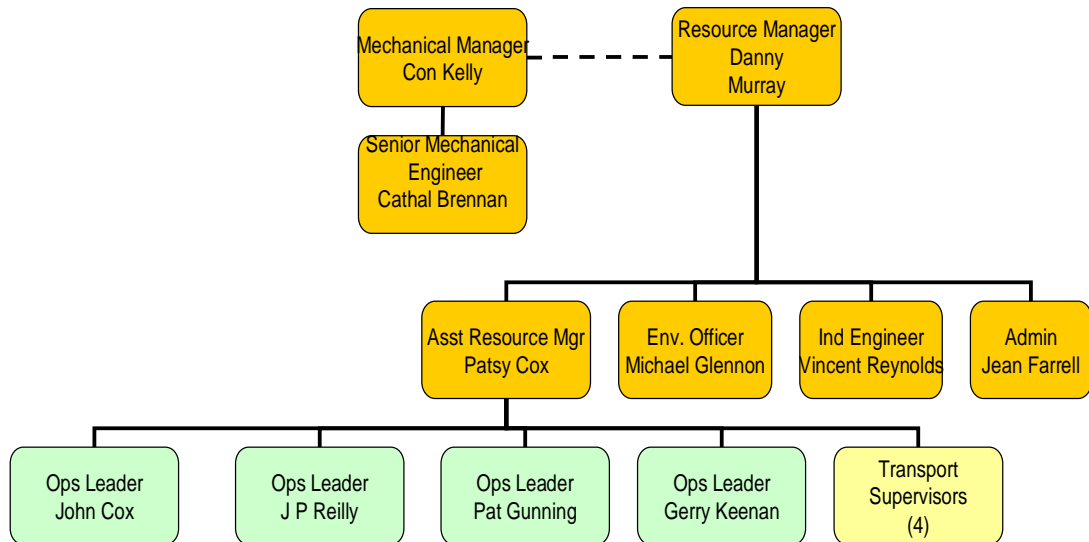
1.4 Environmental Management of the Company

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

Group

Environmental Responsibilities

Mountdillon Organisational Structure.



1.5 Environmental Policy



Bord na Mona Energy Limited is a commercial semi-state body with responsibility to develop Ireland's 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 business 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 on a quarterly basis 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. November was the wettest month of 2009 with rainfall of 175.7 mm being recorded, while February was the driest with 22.9 mm recorded.

The quarterly grab sampling programme proved to be 100% compliant for the year as were the 2006, 2007 and 2008 regimes.

Monitoring will continue at the same locations in 2009.

pH values were between 7 and 7.9, with normal emission limit values being of the range 6 and 9. This represented a slight narrowing of the pH bands on previous years.

Suspended solids varied from 5mg/l to 21mg/l and would depend on activities (piping, ditching) etc, in the catchments at the time of sampling. All were within the licence limit of 35mg/l.

Ammonia levels were constant across all monitoring locations and well below I/PV of 4mg/l for A3 waters. Analysis results were of the range 0.05 mg/l and 1.5 mg/l. The slightly elevated ammonia recorded in 2007 at SW 23 appears to have returned to normal levels, with no other location warranting comment. There appears to have been a narrowing of the range in relation to ammonia, compared with previous years.

COD readings were consistently below Bord na Mona set trigger levels of 100 mg/l, with the exception of 3rd quarter monitoring at SW61 and 4th quarter monitoring at SW88. The levels dropped at SW61 in the final quarter event. The results at SW88 will be closely monitored following the 1st quarter round of analysis 2010. With the exception of SW88, results were down on previous year's analysis.

Flow rates were similar to previous years. There was however increased flows during the 4th quarter, not surprising as November was the wettest month of 2009. The increased flows in the 4th quarter appear to have had a very slight effect on suspended solids results in the same period.

Total Phosphorus results were of the range 0.05 mg/l and 0.32 mg/l, all of which were within quality guidelines.

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. The recurring issue is the physical size of the catchments, which makes it difficult to guarantee a sample.

Trigger levels of 100mg/l were exceeded at, Workshop SWE2 and Yard SWE2, during the reporting period, however subsequent results from the same location indicate a return to normal levels.

Sampling will continue at the same locations during 2010.

Yard Emission Results are contained in Appendix 2

2.1.3 Composite Sampler Report

Comment

The composite sampler was operating at SW96 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 results were satisfactory, and compliant for the period.

November was the wettest month of 2009 with rainfall of 175.7mm being recorded, while February was the driest with 22.9mm recorded. The particularly wet weather in November seems to have had a slight affect on suspended solids results during that time, although as stated above there was no exceedence of the emission limit value.

Instances in the composite results tables, in appendix 3, where no flow or negative flow is recorded, can be attributed to either, flooding of the outfall on which the sampler is located or mechanical failure of the sampler itself. A continual flow reading of similar amount is due to the sampler locking out which is also due to mechanical problems. During the closing days of 2009 the sampler was frozen and although recording flow, the ground temperatures in exceedence of -12 degrees centigrade meant that it was unable to take a sample.

Composite Sampler Results are contained in Appendix 3.

2.1.4 Emissions to Water Non-compliance's

Emissions to Water Non-Compliances 2009		
Licence: P0504-01		
Works: Mt Dillon		
Type	Non-Compliances	Location / SW Nr
Composite	0	
Quarterly Grab	0	
Monthly Yard	N/A	
Totals	0	

There emissions to water were fully compliant for the period

2.2 Emissions to Air

2.2.1 Dust Monitoring

Comment

Dust monitoring was carried out on four occasions between April and August. 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. All results were within the emission value of 350 mg/m²/day set out in the licence and no complaints were received in relation to dust. Sampling will continue at the same locations during 2010.

Dust Monitoring Results are contained in Appendix 4.

2.2.2 Emissions to Air Non-compliance's

Dust Non-Compliances 2009	
Licence:P0504-01	
Works: Mt Dillon	
Location / DM Nr	Non-Compliances
Edera / DM 01	0
Cloonshannagh / DM 02	0
Total	0

The emissions to air during the reporting period were compliant.

2.1 Waste Arisings

2.3.1 Non Hazardous Waste

Non Hazardous Waste Data 2009				
IPPC Licence: P0502-01				
Works: Mtdillon				
Type	Tonnes	EWC Code	Contractor	Licence Nr
Skips	19.02	20 03 01	AES	053/OY/39/02
Polyethylene	102.74	02 01 04	Leinster Environmental	WP 2008/06
Scrap Steel	93.99	17 04 07	Hammond Lane	050/OY/162/04
Silt Pond Cleanings	1425.00	01 01 02	Bord na Mona	IPPC P 0499
Cardboard	9.90	20 01 01	Mulleadys	S/E 152/2002
Peat Screenings	1205.00	01 01 02	Bord na Mona	IPPC P 0499
Plastic Swamp Shoes	3.60	02 01 04	AES	053/OY/39/02
Totals	2859.25			

Note: Polythene, Cardboard and Steel are recycled.

2.3.2 Hazardous Waste

Hazardous Waste Data 2009					
IPPC Licence: P0504-01					
Works: Mount Dillon					
Type	Tonnes	EWC Code	Contractor	Licence Nr	Destination
Waste Oil	10.40	13 02 05	Enva Ireland Ltd Portlaoise	184-1	Portlaoise
Oil Filters	1.96	16 01 07	Enva Ireland Ltd Portlaoise	184-1	Portlaoise
Lead Acid Batt	1.55	16 06 01	Enva Ireland Ltd Portlaoise	184-1	Portlaoise
Parts Wash	10.53	11 01 13	Safety Kleen, Tallaght, Dublin	99-1	Dublin
Florescent Tubes	.21	20 02 01	Irish Lamp Recycling	WCP-DC-08-1115-01	Kildare
Total	24.65				

2.4 Energy and Water Consumption

2.4.1 Energy Consumption

Water is not used as part of the production process and is only used on a domestic scale at canteens and workshops.

Energy Consumption 2009				
Licence: P0504-01				
Works: Mt Dillon				
Units	Diesel (Litres)	Petrol (Litres)	Electricity (Units)	Peat Briquettes (Tonnes)
Totals	1594338	1676	1898850	
MW Hours	15612.4	15.15097	1898.85	0
Total MW Hours	17526.4			

Note: The electricity consumption figure was extracted from ESB on line information systems. Some of the consumption figures relate to estimated readings which do not reflect on the exact amount of consumption. Going forward/ Bord na Mona are liaising with the supplier, to try and eliminate all estimated readings. This will give a more precise figure in relation to consumption in the future

2.5 Environmental Incidents and Complaints

2.5.1 Incidents

Environmental Incidents 2009	
Licence: P0504-01	
Works: Mt Dillon	
	Number
Incidents	0
Requiring corrective action	
Category	
Water	
Air	
Procedural	
Miscellaneous	
Total	0

There were no incidents during the reporting period.

2.5.2 Complaints

Environmental Complaints 2009	
Licence:P0504-01	
Works: Mt Dillon	
	Number
Complaints	0
Requiring corrective action	0
Category	
Water	
Air	
Procedural	
Miscellaneous	
Total	0

There were no complaints during the reporting period

3.0 Management of the Activity

3.1 Achievement of Objectives & Targets 2009

Project	Description & Status
<p>Project 1:</p> <p>Reduction of fugitive dust emissions.</p>	<p>Training. Train all employees in environmental matters. Training will be by means of the screening of an environmental DVD, followed by a power point presentation. Status 145 employees received environmental training during the reporting period.</p> <p>Hydraulic Harrows. There are four new Hydraulic Harrows programmed for delivery over a five year period. These will be used in Dust Sensitive Locations. Status The first of the hydraulic harrows due in 2009 is now due to arrive in 2010.</p> <p>Headland Peat Collection. Continue with the collection of headland peat, particularly at dust sensitive locations. A new mobile Haku Harvester is programmed for delivery for 2008/09 which will include dust sensitive headlands in its operations. Status Due to the above average rainfall experienced during the 2009 production season and the effect this had on production, headland peat was not collected during the period.</p>
<p>Project 2:</p> <p>Waste Management</p>	<p>Waste Streamlining. Following the purchase by Bord na Mona of AES Ltd, meetings with that company's management will be ongoing to see how best Bord na Mona's needs can be catered for. Key account managers dedicated to Bord na Mona have been requested and are due to be in place in 2009. Status A pilot programme has been put in place at Bord na Mona Boora works. Should this prove successful it will be extended to all Bord na Mona works. The service promises to include the issuing of quarterly reports on waste quantities and types.</p>

<p>Project 3:</p> <p>Minimisation of Suspended Solids.</p>	<p>Training. Train all employees in environmental matters. Training will be by means of the screening of an environmental DVD, followed by a power point presentation.</p> <p>Status 145 employees received environmental training during the reporting period.</p>
<p>Project 4:</p> <p>Effective spill leak management of mobile fuelling units.</p>	<p>Research and Development. Continue to introduce rail operated fuel service wagons on a phased basis, with Mt Dillon works budgeted to receive one wagon during 2009. Increased bund provisions where required, will be provided in 2009.</p> <p>Status Mountdillon works took delivery of one new double skinned service train in 2009.</p>
<p>Project 5:</p> <p>Collection storage and reuse of polyethylene.</p>	<p>Identify Recyclers. Continue with the recycling of polyethylene. The sourcing of more recycling contractors will be ongoing.</p> <p>Status There was 102.74 tonnes of polyethylene removed for recycling in 2009.</p>
<p>Project 6:</p> <p>PCB Directive</p>	<p>Survey. Carry out a comprehensive survey of all PCB suspect appliances. Following this, liaise with EPA in deciding plan of action once a definitive amount of suspect PCB holdings are agreed.</p> <p>Status As of December 2009, 100% of all potential Mountdillon PCB contained appliances have been sampled, with results indicating no PCB's present to date.</p>

3.2 Environmental Management Programme Proposal for 2010

Project	Description & Status
Project 1: Reduction of fugitive dust emissions.	Training. Continue to train all employees in environmental matters. Training will be by means of the screening of an environmental DVD, followed by a power point presentation. Hydraulic Harrows. There is one new Hydraulic Harrows programmed for delivery in 2010. This will be deployed at a Dust Sensitive Location. Headland Peat Collection. Continue with the collection of headland peat, particularly at dust sensitive locations. A new mobile Haku Harvester is programmed for delivery in 2010 which will include dust sensitive headlands in its operations.
Project 2: Waste Management	Waste Streamlining. Following the setting up of a pilot project at Boora works in relation to waste management. The extension of the project to other works including Mountdillon is planned.
Project 3: Minimisation of Suspended Solids.	Training. Continue to train all employees in environmental matters. Training will be by means of the screening of an environmental DVD, followed by a power point presentation.
Project 4: Effective spill leak management of mobile fuelling units.	Research and Development. Installation of a new fuel storage tank and associated bunding at Mountdillon Yard.
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.
Project 6: Mini Sod Project	Carry out Trial. On a trial basis switch from milled peat to mini sod production at Edera bog. Part of this project is to mitigate against dust nuisance as the area is dust sensitive.
Project 7: Energy Management	Internal Meter Reading. As part of an energy management process a programme of internal meter readings will commence in 2010. The purpose of this exercise is to establish accurate energy consumption as here to fore a high percentage of electricity bills have been estimated by the supplier.

3.3 Environmental Expenditure

Environmental Expenditure 2009	
Licence:P0504-01	
Works: Mt Dillon	
Description	Cost €
Capital Costs	€5,600
Silt Control,(Wages + Materials)	€185,248
Analytical & Consultancy Costs	€11,807
EPA Fees	€9,208
Bog Rehabilitation	€0
Waste Management	€4,613
Total	€216,476

4.0 Licence Specific Reports

4.1 Surface Water Discharge Monitoring Location Programme Review

Surface water monitoring proved to be quite successful during the reporting period, with no non-compliances recorded in the reporting period. This was a quite satisfactory performance considering the rainfall experienced, with 175.7mm of rainfall recorded in November.

Sampling will take place at the same locations in 2010.

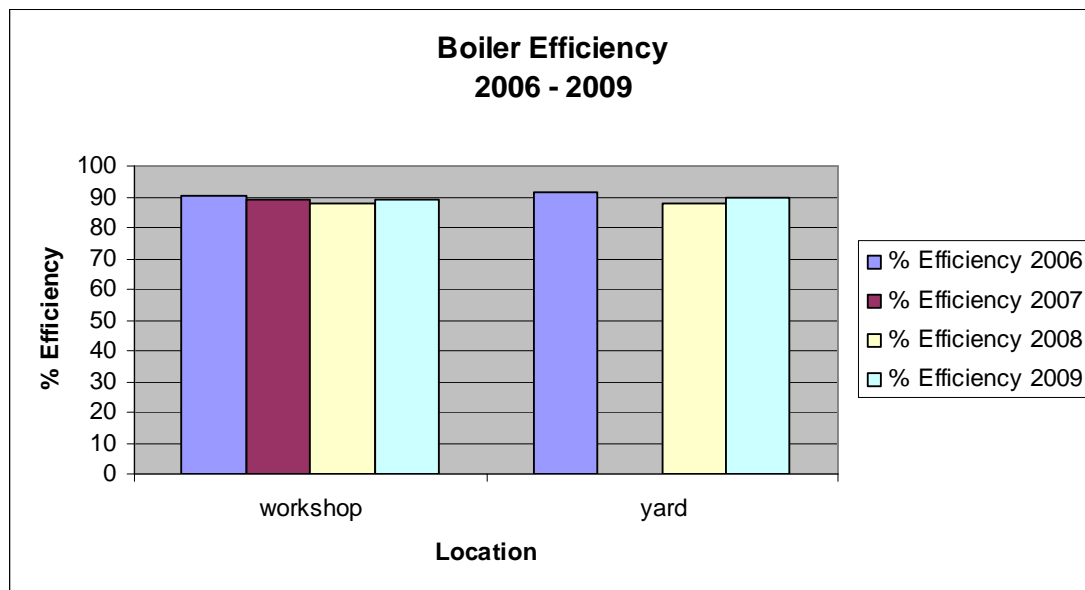
4.2 Bunding Programme

Bund Locations & Numbers Mt Dillon Works						
IPPC Licence: P0504-01						
Location	Bund Number	Last Tested	Status Pass/Fail	Next Test Due	Last Tested	Status Pass/Fail
Mount Dillon Works Bund	504-05-01	Nov-07	Pass	Nov-09	Mar-09	Pass
Works Waste Oil Bund	504-05-02	Aug-09	Pass	Aug-11		
Mount Dillon Yard Bund	504-05-03	Mar-07	Fail	ASAP		
Yard Waste Oil Bund	504-05-04	Aug-09	Pass	Aug-11		
Lough Ree Transport Bund	504-05-05	Mar-07	Pass	Mar-09	Sep-09	Pass
Cuil na Gun Bund	504-05-06	Mar-07	Pass	Mar-09	Feb-09	Pass

The table above is an overview of the bund testing carried out during 2009. The bund at Mountdillon Yard is currently being assessed with regard to suitability for repair. The option of decommissioning the existing tank and replacing it is also being considered.

4.3 Boiler Combustion Efficiency

Boiler Emissions 2009				
Licence: P0504-01				
Works: Mt Dillon				
Boiler Location	% Efficiency 2006	% Efficiency 2007	% Efficiency 2008	% Efficiency 2009
Workshop	90.6	89.2	87.7	89.25
Yard	91.4	0	87.6	89.5



Note: Due to an error an efficiency test was not conducted at Mountdillon Yard boiler in 2007.

4.4 Resource consumption summary

Resource Consumption 2009			
Licence: P0504-01			
Works: Mt Dillon			
Product	Tonnes Produced	Tonnes Sold	Customer
Milled Peat	423,914	935,220	ESB
Totals	423914	935220	

Proposed Production 2010	
Licence: P0504-01	
Works: Mt Dillon	
Product	Proposed Target
Milled Peat	662280
Totals	662280

4.5 De-Silting Report

The De-silting programme worked well during 2009 with all ponds receiving at least two cleanings. In some instances ponds received three cleanings.

Silt Pond Cleaning Programme attached in Appendix 5.

4.6 Bog Development and Operational Programme

Bog development took place at Cuil na Gun bog. This involved the conversion of some old sod turf cutaway bog into milled peat production bog by using earth moving machinery to level the terrain. In all, the works extended to approximately 40 hectares. It is proposed to set out and ditch this area in 2009.

The area developed is already serviced by an appropriately designed silt settlement pond.

4.7 Bog Rehabilitation Report

2008: Following consultation with the National Parks and Wildlife Service, an exercise was carried out, to identify potential areas within the Licence area that may be suitable for management with a biodiversity focus. Following from the initial desktop survey and mapping exercise, key areas of potential biodiversity areas within the Mountdillon Bogs were identified. These include Derryarogue Island, and parts of Derraghan and Lough Bannow Bogs.

2009: In September 2009, a large-scale baseline ecological survey of all of the Bord na Mona bogs commenced. The survey will target those areas identified during the mapping project in 2008 and will form the basis for development of *Rehabilitation Plans* for all bog areas, while also identifying areas considered as being rich biodiversity. To date, none of the Mountdillon Bogs have been surveyed and there are selected sites ear-marked for survey in 2010. Possible rehabilitation measures will be outlined and developed as areas are removed from the peat production process.

Further consultation with the NPWS was carried out in 2009, including a meeting with Judit Keleman, Sue Moles, William Cormacan, Padraig O'Donnell and others. The outline long-term rehabilitation plans for the Mountdillon bogs were discussed and it was agreed to notify the NPWS when potential Biodiversity Areas are identified and more site specific rehabilitation plans drawn up.

An area was also identified for experimental crop trials. The site was developed on Derrycashel Bog and planted by NPWS in June 2009 and will be monitored to determine possible benefits for small bird populations in the area.

4.8 Archaeological Report

There was no archaeology carried out in Mountdillon during the reporting period.

5.0 Summary

With regard to environmental compliance at the Mountdillon Group of Bogs, the quarterly grab sampling of the ponds in the Surface Water Discharge Monitoring Location Programme were compliant. The Composite Sampler was also compliant during the period of January to the end of December.

Dust monitoring results were also compliant and there were no complaints received in relation to dust or silt in 2009.

We intend to build on the success of 2009 and increase our efforts to minimise the impact of our operations on the environment. This will include the supply of additional plant, equipment and bunding. We have greatly improved our fire prevention and fire fighting capabilities in line with experience gained from the bog fires in June of 2006

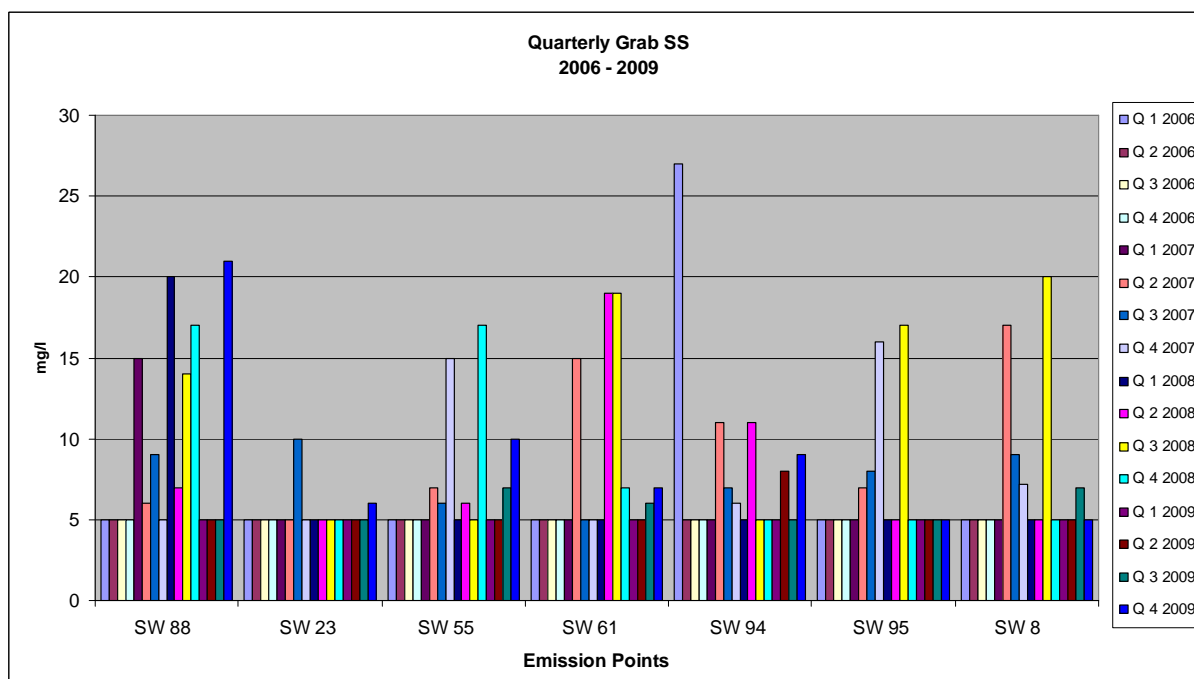
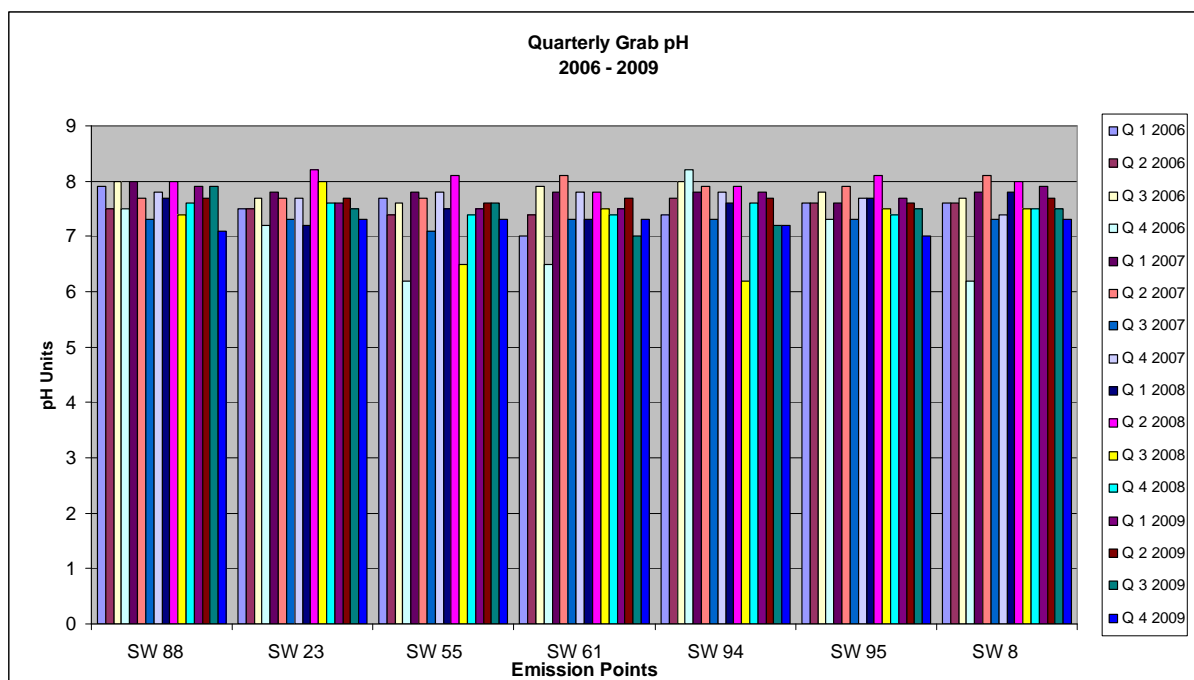
Edera bog, which is a dust sensitive location, is to have the traditional peat harvesting system ie. milling, harrowing, ridging and harvesting replaced with a mini sod harvesting operation, in an effort to reduce dust generation.

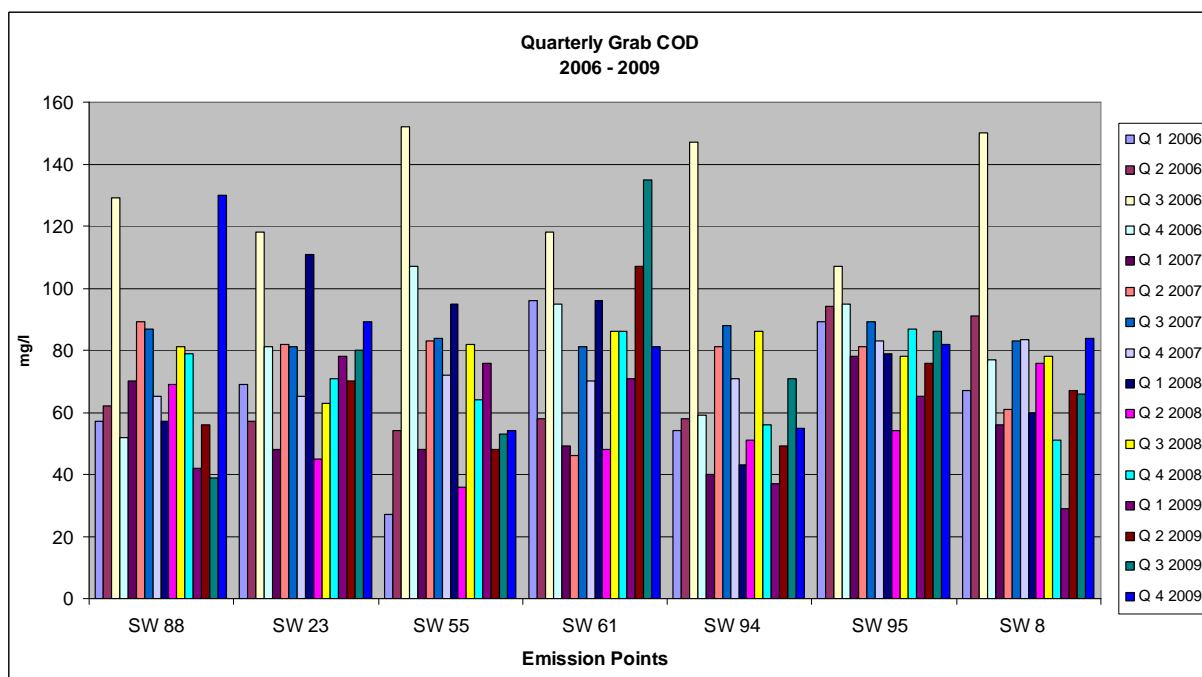
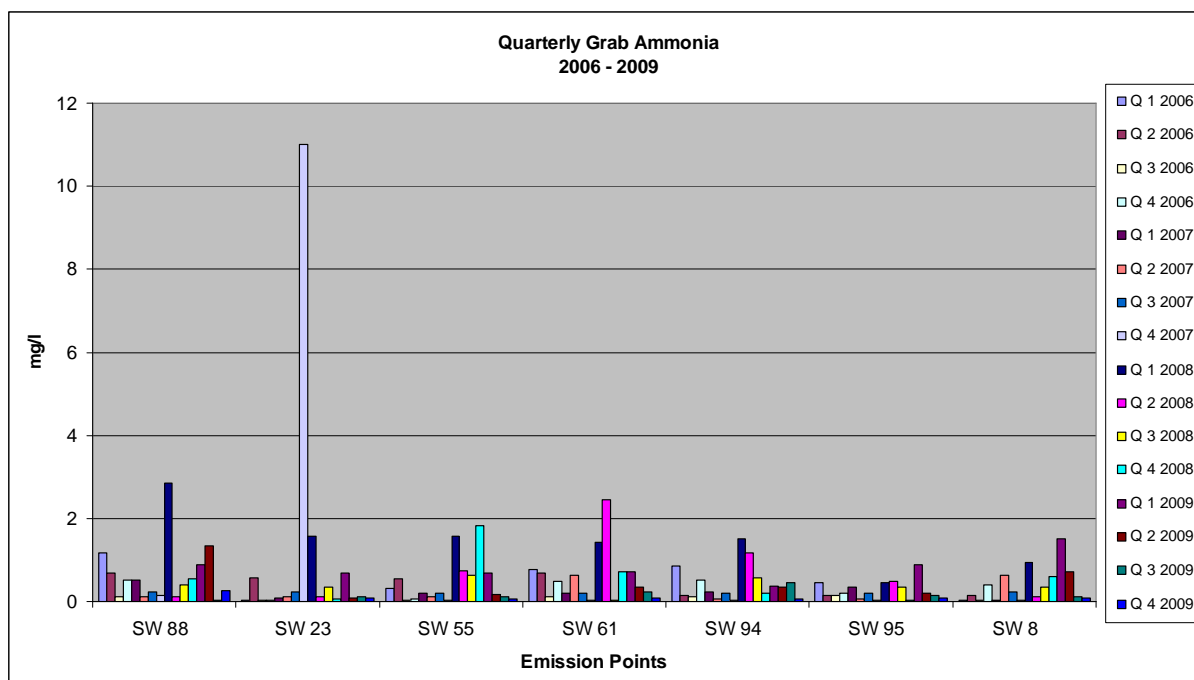
Bord na Mona Energy Ltd are represented on the Management Group of both the Shannon River and Eastern River Basin District Management Systems, set up under the Water Framework Directive, and on the Steering Group of the Catchment Management of the River Barrow.

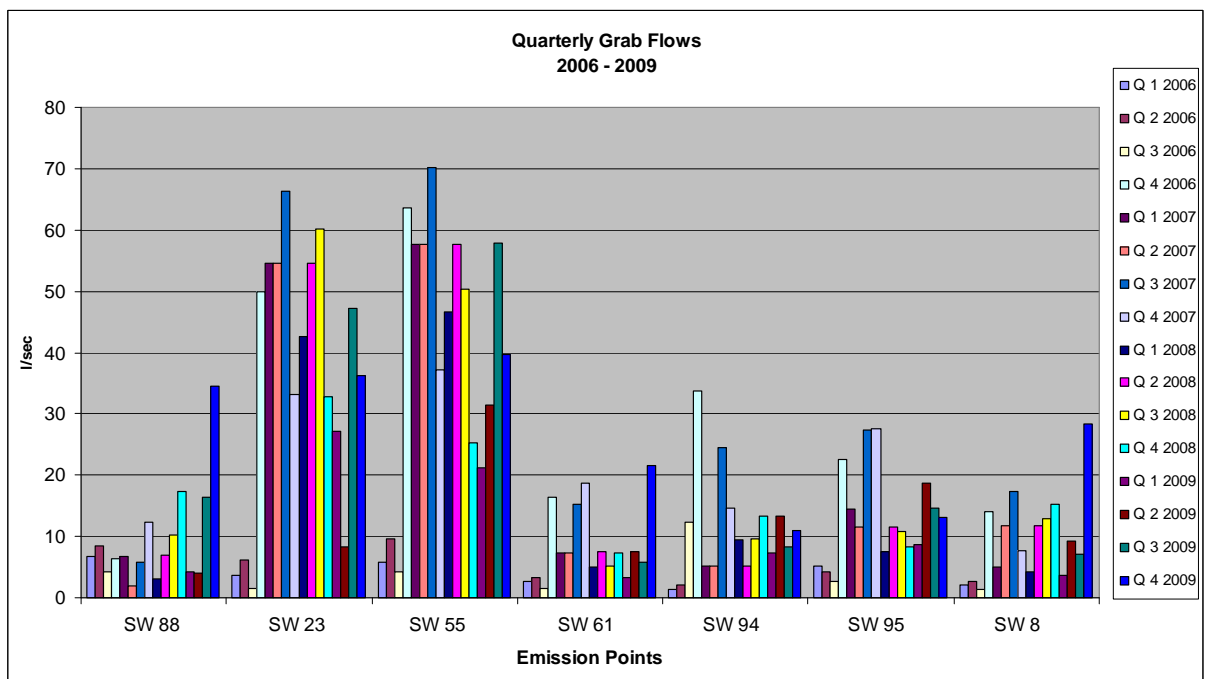
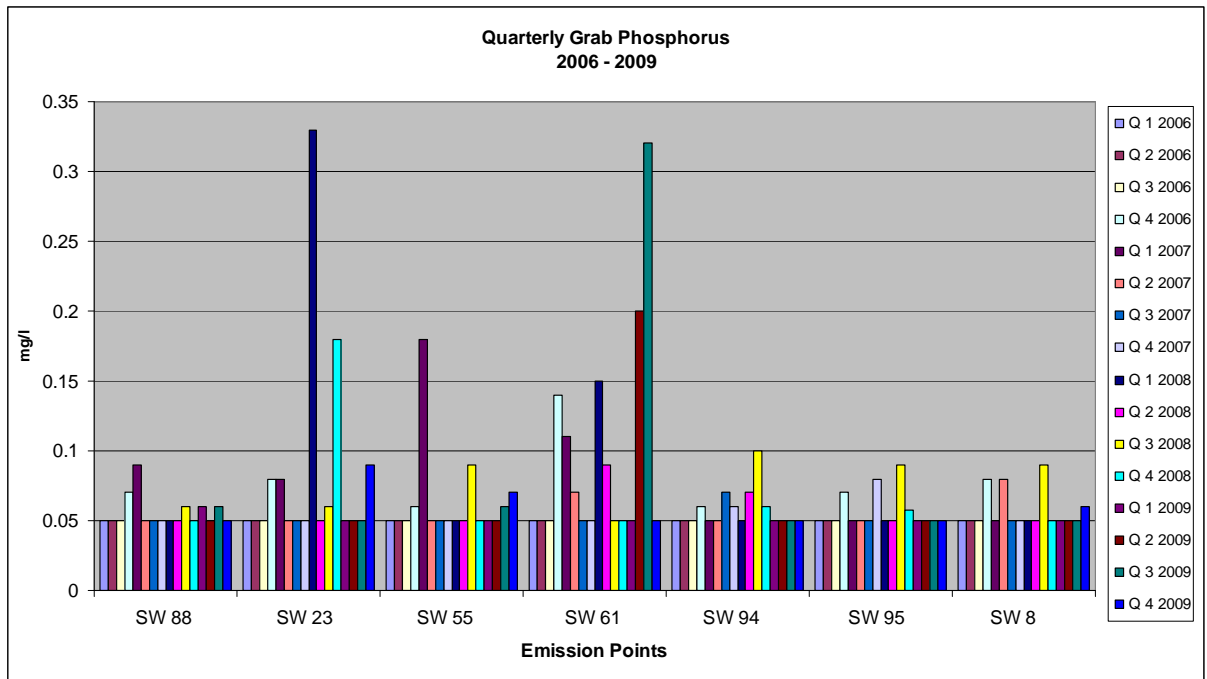
Bord na Mona Energy Ltd would like to take this opportunity to advise the Environmental Protection Agency of its continued commitment to improving its environmental performance by adopting cleaner production methods and improving its environmental protection measures.

APPENDIX 1

Surface Water Discharge Monitoring Results Bogs



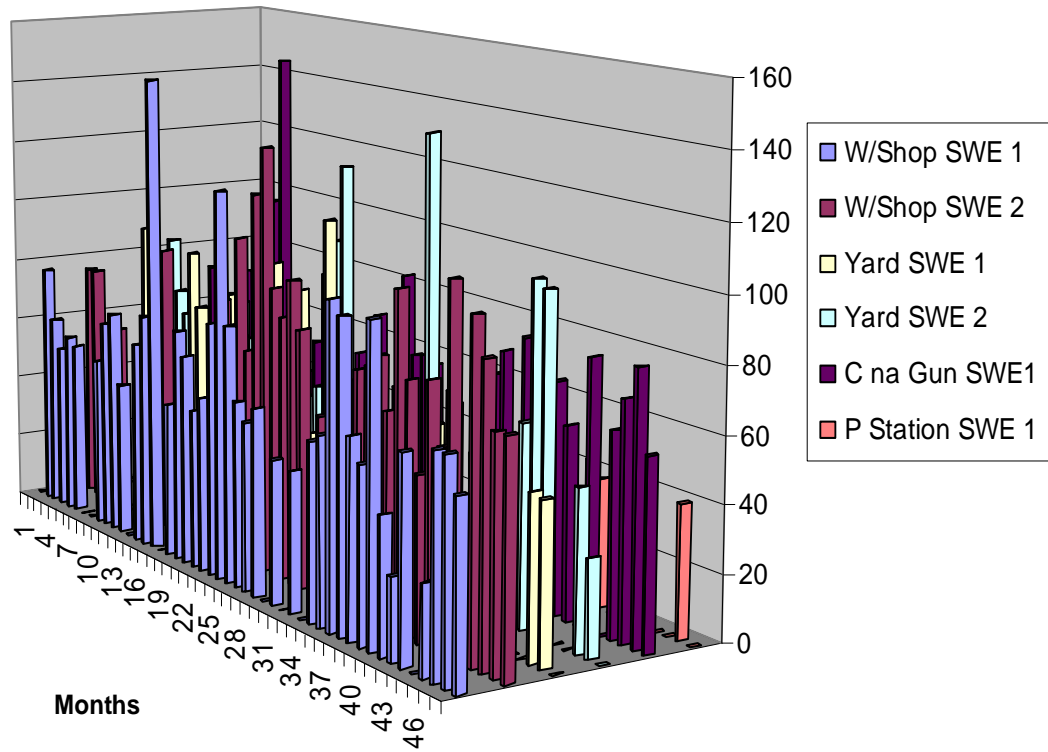




APPENDIX 2

Surface Water Discharge Monitoring Results Yards

Yard Discharge COD Results (mg/l) **2006-2009**



APPENDIX 3

Surface Water Discharge Monitoring Results Composite

Month				Parameters							Daily Totals		
January	pH	COD	Ammonia as	Total	Suspended	Total	Colour	Flow	COD	Ammonia as	Total	Suspended	Total
2009		mg/l	N mg/l	Phosphorus	Solids	Solids	Pt Co	Daily	Kg/Day	Kg/Day	Phosphorus	Solids	Solids
SW96				mg/l	mg/l	mg/l	units	Total (litres)			Kg/Day	Kg/Day	Kg/Day
1	7.8	75	0.8	0.05	5	372	108	1785888	133.94	1.43	0.09	8.93	664.35
2					38	488		1323043				50.28	645.64
3					37	488		1640045				60.68	800.34
4					14	480		1877299				26.28	901.10
5					0	0		1877299				0.00	0.00
6					0	0		1877299				0.00	0.00
7	8.1	51	0.02	0.05	7	286	117	1877299	95.74	0.04	0.09	13.14	536.91
8					23	394		1877299				43.18	739.66
9					16	410		1877299				30.04	769.69
10					31	346		1877299				58.20	649.55
11					30	312		1877299				56.32	585.72
12					0			1877299				0.00	0.00
13					21	252		1877299				39.42	473.08
14	8.2	85	0.66	0.08	32	256	155	1877299	159.57	1.24	0.15	60.07	480.59
15					11	260		1877299				20.65	488.10
16					38	252		1877299				71.34	473.08
17					11	258		1877299				20.65	484.34
18					5	320		1877299				9.39	600.74
19					39	230		1877299				73.21	431.78
20					28	244		1877299				52.56	458.06
21	8.1	71	0.63	0.05	17	214	166	1877299	133.29	1.18	0.09	31.91	401.74
22					0	0		1877299				0.00	0.00
23					0	0		1877299				0.00	0.00
24					0	0		1877299				0.00	0.00
25					0	0		1877299				0.00	0.00
26					0	0		1877299				0.00	0.00
27					0	0		1669853				0.00	0.00
28					0	0		1715126				0.00	0.00
29	7.8	84	0.73	0.08	21	288	144	1280016	107.52	0.93	0.10	26.88	368.64
30					0	0		1416096				0.00	0.00
31					0	0		7391520				0.00	0.00

Month				Parameters							Daily Totals		
Feb	pH	COD	Ammonia as	Total	Suspended	Total	Colour	Flow	COD	Ammonia as	Total	Suspended	Total
2009		mg/l	N mg/l	Phosphorus	Solids	Solids	Pt Co	Daily	Kg/Day	Kg/Day	Phosphorus	Solids	Solids
SW96				mg/l	mg/l	mg/l	units	Total (litres)			Kg/Day	Kg/Day	Kg/Day
1					0	0		9961920				0.00	0.00
2					0	0		86				0.00	0.00
3					0	0		17807				0.00	0.00
4					0	0		271581				0.00	0.00
5					0	0		422271				0.00	0.00
6					0	0		5644771				0.00	0.00
7					0	0		10614240				0.00	0.00
8					0	0		4487443				0.00	0.00
9					0	0		1692403				0.00	0.00
10					0	0		1768349				0.00	0.00
11	7.7	43	0.4	0.05	5	298	117	1358035	58.40	0.54	0.07	6.79	404.69
12					20	240		1434672				28.69	344.32
13					22	232		1306195				28.74	303.04
14					20	228		1383264				27.67	315.38
15					28	222		1374624				38.49	305.17
16					34	272		1389917				47.26	378.06
17					23	265		1136074				26.13	301.06
18	7.7	61	0.81	0.05	23	236	175	1317082	80.34	1.07	0.07	30.29	310.83
19					14	398		1380326				19.32	549.37
20					16	420		1458864				23.34	612.72
21					17	406		1637107				27.83	664.67
22					12	390		1687219				20.25	658.02
23					11	400		1724544				18.97	689.82
24					8	406		1625357				13.00	659.89
25	7.6	57	1.72	0.05	8	424	125	1646525	93.85	2.83	0.08	13.17	698.13
26					32	374		1570666				50.26	587.43
27					33	380		1811549				59.78	688.39
28					7	348		1456531				10.20	506.87

Month				Parameters							Daily Totals		
March	pH	COD	Ammonia as	Total	Suspended	Total	Colour	Flow	COD	Ammonia as	Total	Suspended	Total
2009		mg/l	N mg/l	Phosphorus	Solids	Solids	Pt Co	Daily	Kg/Day	Kg/Day	Phosphorus	Solids	Solids
SW96				mg/l	mg/l	mg/l	units	Total (litres)			Kg/Day	Kg/Day	Kg/Day
1					34	388		1651968				56.17	640.96
2					7	338		1115597				7.81	377.07
3					7	346		1550362				10.85	536.43
4	8	66	1.33	0.05	20	352	133	1991693	131.45	2.65	0.10	39.83	701.08
5					18	50		1989274				35.81	99.46
6					13	168		1533341				19.93	257.60
7					7	342		1064189				7.45	363.95
8					5	198		1324598				6.62	262.27
9					6	234		1598314				9.59	374.01
10					13	360		1249517				16.24	449.83
11	7.9	85	0.08	0.05	5	140	327	1625184	138.14	0.13	0.08	8.13	227.53
12					0	0		1296864				0.00	0.00
13					0	0		1348877				0.00	0.00
14					0	0		752734				0.00	0.00
15					0	0		232537				0.00	0.00
16					0	0		139208				0.00	0.00
17					0	0		237073				0.00	0.00
18	7.9	40	1.32	0.05	14	444	57	-17660	-0.71	-0.02	0.00	-0.25	-7.84
19					0	0		197407				0.00	0.00
20					0	0		1267402				0.00	0.00
21					0	0		465515				0.00	0.00
22					0	0		1283818				0.00	0.00
23					0	0		498131				0.00	0.00
24					0	0		728706				0.00	0.00
25					0	0		799209				0.00	0.00
26					0	0		729873				0.00	0.00
27					0	0		711755				0.00	0.00
28					0	0		595642				0.00	0.00
29					0	0		555725				0.00	0.00
30					0	0		945043				0.00	0.00
31					0	0		846650				0.00	0.00

Month				Parameters							Daily Totals		
April	pH	COD	Ammonia as	Total	Suspended	Total	Colour	Flow	COD	Ammonia as	Total	Suspended	Total
2009		mg/l	N mg/l	Phosphorus	Solids	Solids	Pt Co	Daily	Kg/Day	Kg/Day	Phosphorus	Solids	Solids
SW96				mg/l	mg/l	mg/l	units	Total (litres)			Kg/Day	Kg/Day	Kg/Day
1	8.2	59	1.24	0.05	10	478	95	330420	19.49	0.41	0.02	3.30	157.94
2					15	400		971568				14.57	388.63
3					12	404		1085702				13.03	438.62
4					14	418		668105				9.35	279.27
5					13	424		805723				10.47	341.63
6					13	400		771327				10.03	308.53
7					5	406		816610				4.08	331.54
8	8.5	57	0.87	0.05	13	418	124	801991	45.71	0.70	0.04	10.43	335.23
9					5	368		1093824				5.47	402.53
10					5	242		930355				4.65	225.15
11					5	296		1898554				9.49	561.97
12					5	176		943574				4.72	166.07
13					5	338		932170				4.66	315.07
14					13	400		701931				9.13	280.77
15	8.2	47	0.97	0.05	7	348	140	1270771	59.73	1.23	0.06	8.90	442.23
16					9	440		651499				5.86	286.66
17					8	474		1709683				13.68	810.39
18					5	444		2600035				13.00	1154.42
19					5	472		2600035				13.00	1227.22
20					5	452		2600035				13.00	1175.22
21					5	460		2600035				13.00	1196.02
22	8.4	62	0.93	0.05	5	473	100	2600035	161.20	2.42	0.13	13.00	1229.82
23					6	294		2600035				15.60	764.41
24					5	306		2600035				13.00	795.61
25					5	316		2600035				13.00	821.61
26					5	364		2542406				12.71	925.44
27					9	280		861520				7.75	241.23
28					5	286		1317514				6.59	376.81
29	8.4	45	0.97	0.05	5	456	97	1281053	57.65	1.24	0.06	6.41	584.16
30					5	422		230748				1.15	97.38

Month				Parameters							Daily Totals		
May	pH	COD	Ammonia as	Total	Suspended	Total	Colour	Flow	COD	Ammonia as	Total	Suspended	Total
2009		mg/l	N mg/l	Phosphorus	Solids	Solids	Pt Co	Daily	Kg/Day	Kg/Day	Phosphorus	Solids	Solids
1					5	400		964570				4.82	385.83
2					5	292		235328				1.18	68.72
3					5	409		264367				1.32	108.13
4					5	360		254405				1.27	91.59
5					5	420		163832				0.82	68.81
6	8	47	1.11	0.05	15	414	130	88413	4.16	0.10	0.0044	1.33	36.60
7					5	358		601085				3.01	215.19
8					5	488		1054426				5.27	514.56
9					5	360		1282867				6.41	461.83
10					5	482		2214000				11.07	1067.15
11					5	388		1061251				5.31	411.77
12					5	326		919296				4.60	299.69
13	8	60	1.11	0.05	11	278	132	781013	46.86	0.87	0.04	8.59	217.12
14					5	306		918864				4.59	281.17
15					13	138		793619				10.32	109.52
16					6	238		1195862				7.18	284.62
17					5	274		1046909				5.23	286.85
18					5	286		1473206				7.37	421.34
19					7	406		2917901				20.43	1184.67
20	7.8	56	0.79	0.05	5	276	143	1863821	104.37	1.47	0.09	9.32	514.41
21					13	352		1315958				17.11	463.22
22					7	350		1060301				7.42	371.11
23					12	420		1125878				13.51	472.87
24					9	390		1347494				12.13	525.52
25					9	442		1001549				9.01	442.68
26					6	352		1163462				6.98	409.54
27	8.1	65	0.61	0.05	5	374	175	839704	54.58	0.51	0.04	4.20	314.05
28					0	0		845977				0.00	0.00
29					0	0		806907				0.00	0.00
30					0	0		1027382				0.00	0.00
31					0	0		802561				0.00	0.00

Month				Parameters							Daily Totals		
June	pH	COD	Ammonia as	Total	Suspended	Total	Colour	Flow	COD	Ammonia as	Total	Suspended	Total
2009		mg/l	N mg/l	Phosphorus	Solids	Solids	Pt Co	Daily	Kg/Day	Kg/Day	Phosphorus	Solids	Solids
SW96				mg/l	mg/l	mg/l	units	Total (litres)			Kg/Day	Kg/Day	Kg/Day
1					0	0		783294				0.00	0.00
2					0	0		627134				0.00	0.00
3					0	0		507989				0.00	0.00
4					5	610		462594				2.31	282.18
5					5	602		447267				2.24	269.25
6					5	590		733113				3.67	432.54
7					6	644		577843				3.47	372.13
8					11	628		630677				6.94	396.07
9					8	584		819780				6.56	478.75
10	8.2	43	0.21	0.06	5	599	81	439664	18.91	0.09	0.03	2.20	263.36
11					5	750		511790				2.56	383.84
12					6	678		445003				2.67	301.71
13					5	698		512516				2.56	357.74
14					10	640		627852				6.28	401.83
15					32	516		662541				21.20	341.87
16					5	648		489750				2.45	317.36
17	8	44	0.02	0.05	27	728	56	286476	12.60	0.01	0.01	7.73	208.55
18					22	367		2133562				46.94	783.02
19					6	444		636872				3.82	282.77
20					9	402		669159				6.02	269.00
21					9	544		585386				5.27	318.45
22					9	450		854228				7.69	384.40
23					30	434		479235				14.38	207.99
24	7.8	73	1.7	0.05	20	424	99	587183	42.86	1.00	0.03	11.74	248.97
25					10	470		389318				3.89	182.98
26					16	448		330584				5.29	148.10
27					28	536		578828				16.21	310.25
28					34	436		513743				17.47	223.99
29					10	426		637744				6.38	271.68
30					15	556		466646				7.00	259.46

July	pH	COD	Ammonia as	Total	Suspended	Total	Colour	Flow	COD	Ammonia as	Total	Suspended	Total
2009		mg/l	N mg/l	Phosphorus	Solids	Solids	Pt Co	Daily	Kg/Day	Kg/Day	Phosphorus	Solids	Solids
SW96				mg/l	mg/l	mg/l	units	Total (litres)			Kg/Day	Kg/Day	Kg/Day
1	8	55	1.14	0.05	8	432	124	438558	24.12	0.50	0.02	3.51	189.46
2					5	378		578578				2.89	218.70
3					15	430		968544				14.53	416.47
4					20	294		1656461				33.13	487.00
5					27	264		671000				18.12	177.14
6					11	326		798690				8.79	260.37
7					26	269		3669667				95.41	987.14
8	7.6	82	0.83	0.05	18	342	209	1518307	124.50	1.26	0.08	27.33	519.26
9					11	398		1258330				13.84	500.82
10					5	394		673393				3.37	265.32
11					18	359		926294				16.67	332.54
12					0	0		916358				0.00	0.00
13					5	456		885686				4.43	403.87
14					12	440		1251158				15.01	550.51
15	8	63	0.04	0.05	7	6321	126	976406	61.51	0.04	0.05	6.83	6171.86
16					0	0		836611				0.00	0.00
17					0	0		836611				0.00	0.00
18					0	0		836611				0.00	0.00
19					0	0		836611				0.00	0.00
20					0	0		836611				0.00	0.00
21					0	0		836611				0.00	0.00
22	7.5	62	0.76	0.05	27	448	142	836611	51.87	0.64	0.04	22.59	374.80
23					0	0		836611				0.00	0.00
24					0	0		836611				0.00	0.00
25					0	0		836611				0.00	0.00
26					0	0		767569				0.00	0.00
27					0	0		332510				0.00	0.00
28					0	0		1023926				0.00	0.00
29					0	0		1073088				0.00	0.00
30					0	0		927850				0.00	0.00
31					0	0		863516				0.00	0.00

Month				Parameters							Daily Totals		
August	pH	COD	Ammonia as	Total	Suspended	Total	Colour	Flow	COD	Ammonia as	Total	Suspended	Total
2009		mg/l	N mg/l	Phosphorus	Solids	Solids	Pt Co	Daily	Kg/Day	Kg/Day	Phosphorus	Solids	Solids
SW96				mg/l	mg/l	mg/l	units	Total (litres)			Kg/Day	Kg/Day	Kg/Day
1					0	0		721673				0.00	0.00
2					0	0		984701				0.00	0.00
3					0	0		929750				0.00	0.00
4					0	0		697248				0.00	0.00
5	7.6	50	0.86	0.05	10	530	108	798267	39.91	0.69	0.04	7.98	423.08
6					9	506		591028				5.32	299.06
7					10	528		791052				7.91	417.68
8					11	482		546497				6.01	263.41
9					9	482		326125				2.94	157.19
10					16	467		712549				11.40	332.76
11					7	522		463415				3.24	241.90
12	8.2	52	0.04	0.05	13	524	91	539801	28.07	0.02	0.03	7.02	282.86
13					9	350		579113				5.21	202.69
14					5	580		902189				4.51	523.27
15					5	482		732033				3.66	352.84
16					32	366		1004746				32.15	367.74
17					6	474		680322				4.08	322.47
18					5	578		686586				3.43	396.85
19	8.1	37	0.82	0.05	5	446	119	763888	28.26	0.63	0.04	3.82	340.69
20					7	358		1050883				7.36	376.22
21					20	258		2853619				57.07	736.23
22					5	202		3287607				16.44	664.10
23					5	330		1330646				6.65	439.11
24					0	0		3250368				0.00	0.00
25					12	220		1949962				23.40	428.99
26	8	85	0.23	0.05	5	322	193	1363306	115.88	0.31	0.07	6.82	438.98
27					11	414		1892938				20.82	783.68
28					30	290		1617581				48.53	469.10
29					19	328		2134685				40.56	700.18
30					26	392		1880410				48.89	737.12
31					15	334		1407802				21.12	470.21

Month				Parameters							Daily Totals		
Sept	pH	COD	Ammonia as	Total	Suspended	Total	Colour	Flow	COD	Ammonia as	Total	Suspended	Total
2009		mg/l	N mg/l	Phosphorus	Solids	Solids	Pt Co	Daily	Kg/Day	Kg/Day	Phosphorus	Solids	Solids
SW96				mg/l	mg/l	mg/l	units	Total (litres)			Kg/Day	Kg/Day	Kg/Day
1					7	326		1964477				13.75	640.42
2	7.8	109	0.02	0.05	33	292	222	1588032	173.10	0.03	0.08	52.41	463.71
3					7	464		1956614				13.70	907.87
4					5	488		1623197				8.12	792.12
5					5	468		1342310				6.71	628.20
6					6	334		867542				5.21	289.76
7					5	354		800608				4.00	283.42
8					10	334		1005782				10.06	335.93
9	8.1	74	0.68	0.05	6	354	212	1501200	111.09	1.02	0.08	9.01	531.42
10					33	614		1431907				47.25	879.19
11					33	408		1044058				34.45	425.98
12					11	426		1098749				12.09	468.07
13					6	442		1026259				6.16	453.61
14					5	495		1069805				5.35	529.55
15					5	466		980208				4.90	456.78
16	8.1	72	0.08	0.05	5	476	159	1493770	107.55	0.12	0.07	7.47	711.03
17					14	614		640068				8.96	393.00
18					18	724		702130				12.64	508.34
19					13	570		915235				11.90	521.68
20					12	654		844690				10.14	552.43
21					11	652		676892				7.45	441.33
22					8	622		767560				6.14	477.42
23	8	68	1.55	0.05	17	650	85	541140	36.80	0.84	0.03	9.20	351.74
24					21	824		690552				14.50	569.01
25					34	848		751075				25.54	636.91
26					33	910		612420				20.21	557.30
27					30	816		842322				25.27	687.33
28					15	832		665695				9.99	553.86
29					34	906		952128				32.37	862.63
30	8.1	72	0.33	0.05	25	232	74	877819	63.20	0.29	0.04	21.95	203.65

Month				Parameters							Daily Totals		
Oct	pH	COD	Ammonia as	Total	Suspended	Total	Colour	Flow	COD	Ammonia as	Total	Suspended	Total
2009		mg/l	N mg/l	Phosphorus	Solids	Solids	Pt Co	Daily	Kg/Day	Kg/Day	Phosphorus	Solids	Solids
1					34	843		873072				29.68	736.00
2					26	932		1091318				28.37	1017.11
3					29	848		881798				25.57	747.76
4					23	688		744284				17.12	512.07
5					17	816		1205280				20.49	983.51
6					23	878		1053389				24.23	924.88
7	8	71	0.54	0.05	20	870	77	1130544	80.27	0.61	0.06	22.61	983.57
8					5	756		1237853				6.19	935.82
9					5	382		802224				4.01	306.45
10					13	636		1334102				17.34	848.49
11					22	480		937872				20.63	450.18
12					5	544		1116806				5.58	607.54
13					18	573		1313539				23.64	752.66
14	8	74	1.46	0.05	31	680	96	977270	72.32	1.43	0.05	30.30	664.54
15					0	0		1271203				0.00	0.00
16					0	0		129842				0.00	0.00
17					0	0		132106				0.00	0.00
18					0	0		136331				0.00	0.00
19					0	0		170415				0.00	0.00
20					0	0		249048				0.00	0.00
21					0	0		148357				0.00	0.00
22	7.6	40	0.76	0.05	5	326	112	127293	5.09	0.10	0.01	0.64	41.50
23					10	378		3377462				33.77	1276.68
24					5	354		904435				4.52	320.17
25					12	394		2203978				26.45	868.37
26					19	328		2140301				40.67	702.02
27					31	438		2222035				68.88	973.25
28	7.9	124	0.9	0.05	22	328	142	2877984	356.87	2.59	0.14	63.32	943.98
29					32	172		1221437				39.09	210.09
30					20	480		1184285				23.69	568.46
31					30	322		3084134				92.52	993.09

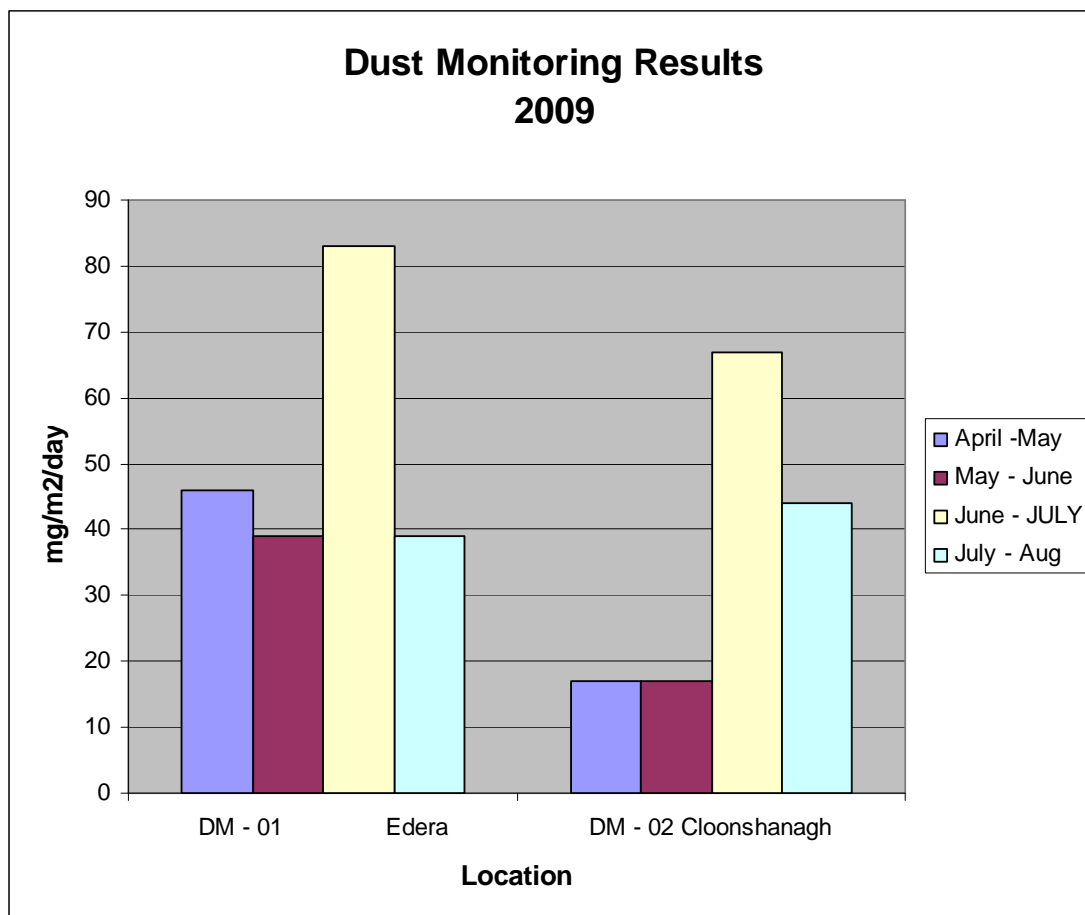
Month				Parameters							Daily Totals		
Nov	pH	COD	Ammonia as	Total	Suspended	Total	Colour	Flow	COD	Ammonia as	Total	Suspended	Total
2009		mg/l	N mg/l	Phosphorus	Solids	Solids	Pt Co	Daily	Kg/Day	Kg/Day	Phosphorus	Solids	Solids
SW96				mg/l	mg/l	mg/l	units	Total (litres)			Kg/Day	Kg/Day	Kg/Day
1					23	292		1682294				38.69	491.23
2					33	262		5091466				168.02	1333.96
3					26	446		3941827				102.49	1758.05
4	7.7	103	0.67	0.05	13	410	204	2239142	230.63	1.50	0.11	29.11	918.05
5					15	340		2408314				36.12	818.83
6					17	216		2272752				38.64	490.91
7					25	264		3692563				92.31	974.84
8					5	250		4211741				21.06	1052.94
9					34	216		1756253				59.71	379.35
10					18	296		4073328				73.32	1205.71
11	7.6	103	0.62	0.05	16	352	184	3473539	357.77	2.15	0.17	55.58	1222.69
12					5	294		1889741				9.45	555.58
13					10	202		5163177				51.63	1042.96
14					31	184		1857600				57.59	341.80
15					9	306		6971097				62.74	2133.16
16					26	172		2070403				53.83	356.11
17					5	316		5600016				28.00	1769.61
18	7.3	92	0.35	0.05	33	168	192	3186173	293.13	1.12	0.16	105.14	535.28
19					31	179		6127574				189.95	1096.84
20					22	116		5145293				113.20	596.85
21					22	56		4629830				101.86	259.27
22					25	134		4839955				121.00	648.55
23					24	280		4963594				119.13	1389.81
24					26	118		4905619				127.55	578.86
25	7.6	105	0.38	0.12	29	132	185	5079110	533.31	1.93	0.61	147.29	670.44
26					13	556		4455302				57.92	2477.15
27					19	549		1896739				36.04	1041.31
28					9	522		1795997				16.16	937.51
29					11	538		1824077				20.06	981.35
30					12	474		1749766				21.00	829.39

Month				Parameters							Daily Totals		
Dec	pH	COD	Ammonia as	Total	Suspended	Total	Colour	Flow	COD	Ammonia as	Total	Suspended	Total
2009		mg/l	N mg/l	Phosphorus	Solids	Solids	Pt Co	Daily	Kg/Day	Kg/Day	Phosphorus	Solids	Solids
SW96				mg/l	mg/l	mg/l	units	Total (litres)			Kg/Day	Kg/Day	Kg/Day
1					12	548		1802822				21.63	987.95
2	7.7	93	1.28	0.05	12	530	161	2664058	247.76	3.41	0.13	31.97	1411.95
3					0	0		1781741				0.00	0.00
4					0	0		1528934				0.00	0.00
5					0	0		1830211				0.00	0.00
6					0	0		3913488				0.00	0.00
7					0	0		2120342				0.00	0.00
8					0	0		1978301				0.00	0.00
9					0	0		2347661				0.00	0.00
10					15	460		1943395				29.15	893.96
11					5	484		1740269				8.70	842.29
12					33	596		1701302				56.14	1013.98
13					5	592		1638576				8.19	970.04
14					5	72		1533514				7.67	110.41
15					12	548		1637626				19.65	897.42
16	7.9	76	1.41	0.05	5	572	139	1860192	141.37	2.62	0.09	9.30	1064.03
17					0	0		1683763				0.00	0.00
18					0	0		1572048				0.00	0.00
19					0	0		1414886				0.00	0.00
20					0	0		1793750				0.00	0.00
21					0	0		1625789				0.00	0.00
22					0	0		1421107				0.00	0.00
23					0	0		1365120				0.00	0.00
24					0	0		1582675				0.00	0.00
25					0	0		1213402				0.00	0.00
26					0	0		2124490				0.00	0.00
27					0	0		1724026				0.00	0.00
28					0	0		2990131				0.00	0.00
29					0	0		1361923				0.00	0.00
30					0	0		4077648				0.00	0.00
31					0	0		13180320				0.00	0.00

APPENDIX 4

Dust Monitoring Results.

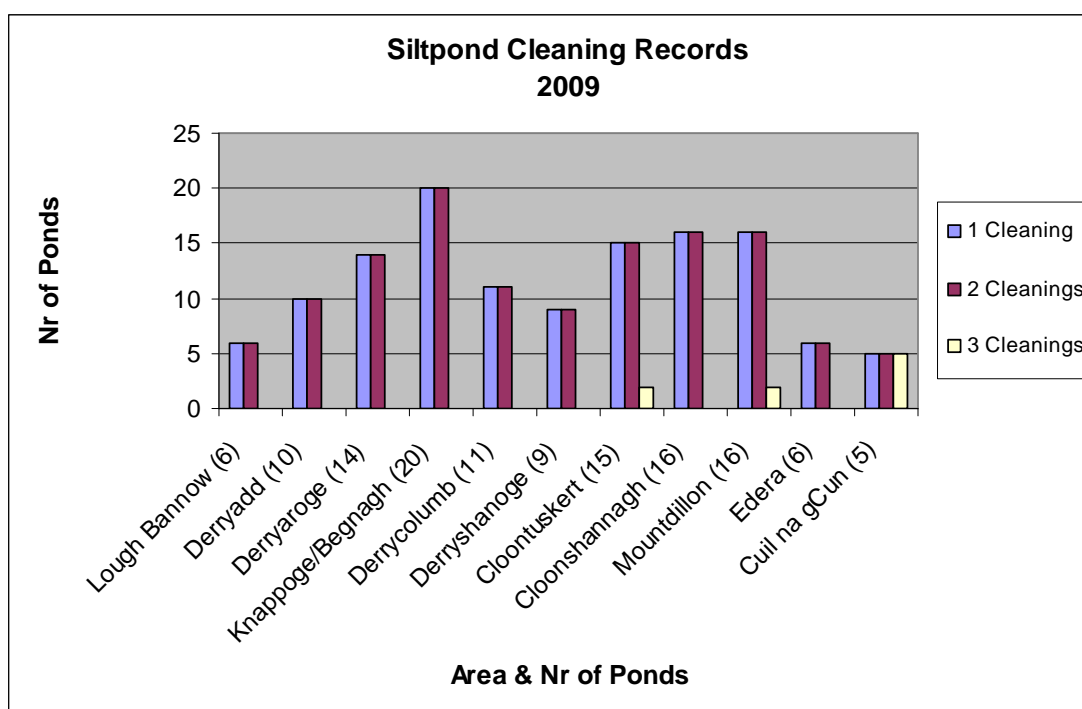
Dust Monitoring Results 2009		
Licence:P0504-01		
Works:Mt Dillon		
Sample Period	DM - 01 Edera	DM - 02 Cloonshanagh
April -May	46	17
May - June	39	17
June - July	83	67
July - Aug	39	44



APPENDIX 5

De-silting Programme Review.

Siltpond Cleaning Programme 2009			
IPPC Licence: P0504-01			
Works: Mt Dillon			
Bog Area & Nr Ponds	1 Cleaning	2 Cleanings	3 Cleanings
Lough Bannow (6)	6	6	
Derryadd (10)	10	10	
Derryaroge (14)	14	14	
Knappoge/Begnagh (20)	20	20	
Derrycolumb (11)	11	11	
Derryshanoge (9)	9	9	
Cloontuskert (15)	15	15	2
Cloonshannagh (16)	16	16	
Mountdillon (16)	16	16	2
Edera (6)	6	6	
Cuil na gCun (5)	5	5	5



APPENDIX 6

AER & PRTR Data