

# **Corrib Gas Development**

Report for PMC Meeting Dated 16<sup>th</sup> May 2007

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## **Water Quality – Carrowmore Lake**

- Mayo County Council's Project Team has continued to monitor the surface waters in and around the Bellanaboy site. Summaries of the most recent verified results are attached.
- The results show that in the last monitoring period the discharge of surface water from the Terminal Site has had no significant impact on the water quality of the Bellanaboy River or on the water quality of Carrowmore Lake. This is borne out by the results of the sampling programme and by the results of a biological survey recently carried out on the Bellanaboy River by Mayo County Council. The biological survey has identified a number of sensitive species that are living in the riverbed immediately downstream of where the gas terminal surface water enters the Bellanaboy River. The presence of these species indicates a good quality habitat, which is not at risk. A copy of the results of this survey is attached.
- The results also show that the discharge of surface water from the Terminal Site has had no impact on the quality of drinking water produced at the Erris Regional Water Supply Scheme at Barnatra.

## **Environmental Issues at the Bellanaboy Site**

- As a result of mitigating measures taken by the developer Mayo County Council has noted improvement in water quality discharging from the site in the last monitoring period.
- A diesel spill, which occurred on Saturday 24<sup>th</sup> March on site near the settlement ponds, was reported to Mayo County Council by the developer, on Monday 26<sup>th</sup> March. Mayo County Council also received complaints from the public on Monday 26<sup>th</sup> about diesel in the stream off site near the location of the above mentioned spill.
- Having investigated the spill which occurred on site and having carried out sampling of the streams in the vicinity, Mayo County Council is satisfied that the spill of Saturday 24<sup>th</sup> was contained onsite and did not enter the watercourses outside the site.
- The report of diesel in the stream off site was also investigated by Mayo County Council. A small amount of hydrocarbons was detected.
- There is no evidence of a link between the diesel spill on site and the hydrocarbons present in the off site stream. It is likely that presence of hydrocarbons in this stream is as a result of a second spill incident.
- Neither spill had any impact on water quality in the Bellanaboy River.

## **Roads and Transportation**

- Transportation of peat resumed in April 2007. The condition of the Haul Route is being monitored regularly by Mayo County Council.

**CARROWMORE LAKE**

Results from 27/03/2007 to 17/04/2007 (10 samples taken)  
 Analysis by Bord na Mona Laboratory Newbridge, Co. Kildare

Parameter	Units	Average	Max	Min
Suspended Solids	mg/l	5	9	5
Turbidity	N.T.U	3.5	7	2
pH	pH units	7.8	8.3	7.6
Conductivity	uS/cm	186	209	173
Phosphate	mg/l P	<0.02	<0.02	<0.02
Total Phosphorous	mg/l P	0.053	0.07	<0.05
Ammonia	mg/l NH <sub>3</sub> -N	0.026	0.06	<0.02
Nitrate	mg/l NO <sub>3</sub> -N	0.2	0.21	<0.2
Nitrite	mg/l NO <sub>2</sub> -N	<0.02	<0.02	<0.02
Total Aluminium	ug/l Al	48	66	40

**ERRIS REGIONAL WATERWORKS (Final Treated Water)**

Results from 30/03/2007 –13/05/2007 (44 samples)

Analysis carried out at Erris Regional Waterworks

Parameter	Units	Average	Max	Min	Drinking Water Limits
Colour	mg/l	2.64	9	0	<10 Haz
Turbidity	N.T.U	0.42	0.71	0.05	<2.0 NTU
Ph	pH units	7.48	8.66	6.46	6.5 – 8.5
Free Chlo/Res	mg/l	0.74	1	0.39	>0.3
Total Chlo/Res	mg/l	0.88	1.17	0.45	>0.3
Flourine	ppm	0.76	0.95	0.5	0.6-0.8
Total Aluminium	ug/l	33	131	12	200

*BELLANABOY RIVER*

(Upstream and Downstream of discharge from Terminal site)

Results from 27/03/2007 to 17/04/2007 (10 samples taken)

Analysis by Bord na Mona Laboratory Newbridge, Co. Kildare

Parameter	Units	BEL 1 (upstream)			BEL 2 (downstream)		
		Average	Max	Min	Average	Max	Min
<b>Temp.</b>	°C	7.9	8.9	6.8	8.1	9.3	7.3
<b>Dissolved Oxygen</b>	% Sat.	89	95.7	84.1	87.9	94.8	81
<b>Suspended Solids</b>	mg/l	9	28	<5	6	9	<5
Turbidity	N.T.U	4.4	5	4	6.4	11	4
pH	pH units	7.8	7.9	7.6	7.8	8.1	7.5
Conductivity	uS/cm	285	339	251	303	339	269
Total Dissolved Solids	mg/l	149	196	72	149	206	<50
Phosphate	mg/l P	0.021	0.03	<0.02	0.025	0.07	<0.02
Total Phosphorus	mg/l P	0.057	0.08	<0.05	0.064	0.1	<0.05
Ammonia	mg/l NH <sub>3</sub> -N	0.043	0.06	<0.02	0.079	0.11	0.06
Nitrate	mg/l NO <sub>3</sub> -N	0.2	0.27	<0.2	0.236	0.52	<0.2
Nitrite	mg/l NO <sub>2</sub> -N	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Total Aluminium	ug/l Al	24	33	17	60	110	14

SP1 (Discharge point from terminal site)

Results from 27/03/2007 to 17/04/2007 (8 samples)  
Analysis by Bord na Mona Laboratory Newbridge, Co. Kildare

Parameter	Units	SP 1		
		Average	Max	Min
<b>Suspended Solids</b>	mg/l	12	38	<5
Turbidity	N.T.U	11	12	9.8
pH	pH units	8	8.3	7.9
Conductivity	uS/cm	412	473	380
Total Dissolved Solids	mg/l	207	256	112
Phosphate	mg/l P	0.022	0.04	<0.02
Total Phosphorus	mg/l P	0.08	0.2	<0.05
Ammonia	mg/l NH <sub>3</sub> -N	0.026	0.04	<0.02
Nitrate	mg/l NO <sub>3</sub> -N	0.295	0.5	<0.2
Nitrite	mg/l NO <sub>2</sub> -N	<0.02	<0.02	<0.02
Total Aluminium	ug/l Al	370	864	50

Axonics Water Treatment Units (Post-treatment Results)

Results from 03/04/2007 to 17/04/2007 (4 samples)  
Analysis by Bord na Mona Laboratory Newbridge, Co. Kildare

Parameter	Units	Post-Treatment (4 Samples)		
		Average	Max	Min
<b>Suspended Solids</b>	mg/l	9	17	6
Turbidity	N.T.U	12.8	19	10
pH	pH units	7	7.1	7
Conductivity	uS/cm	431	456	416
Total Dissolved Solids	mg/l	247	264	218
Phosphate	mg/l P	<0.02	<0.02	<0.02
Total Phosphorus	mg/l P	0.055	0.06	<0.05
Ammonia	mg/l NH <sub>3</sub> -N	0.13	0.17	0.08
Nitrate	mg/l NO <sub>3</sub> -N	0.36	0.52	0.27
Nitrite	mg/l NO <sub>2</sub> -N	<0.02	<0.02	<0.02
*Total Aluminium	ug/l Al	603	988	261

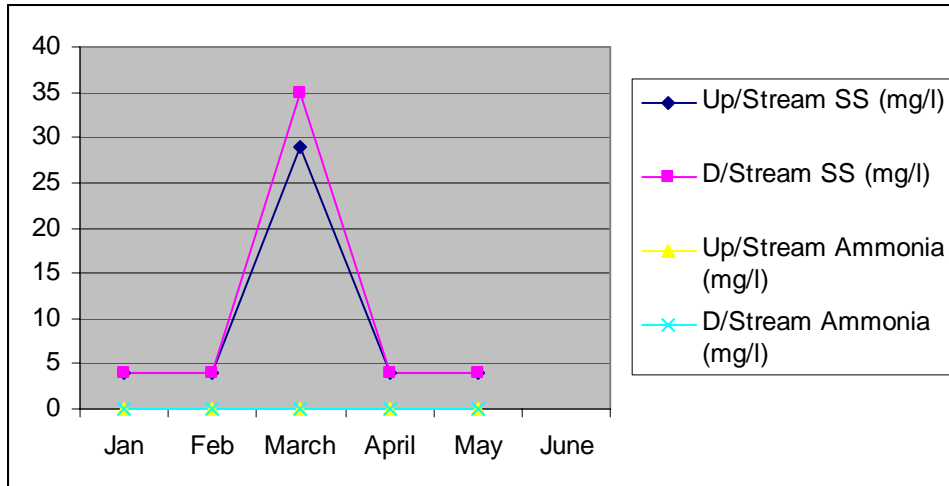
Srahmore Peat Repository  
 WL 0199-01

**Environmental Management System Up-Date No. 23 (16/05/07)**

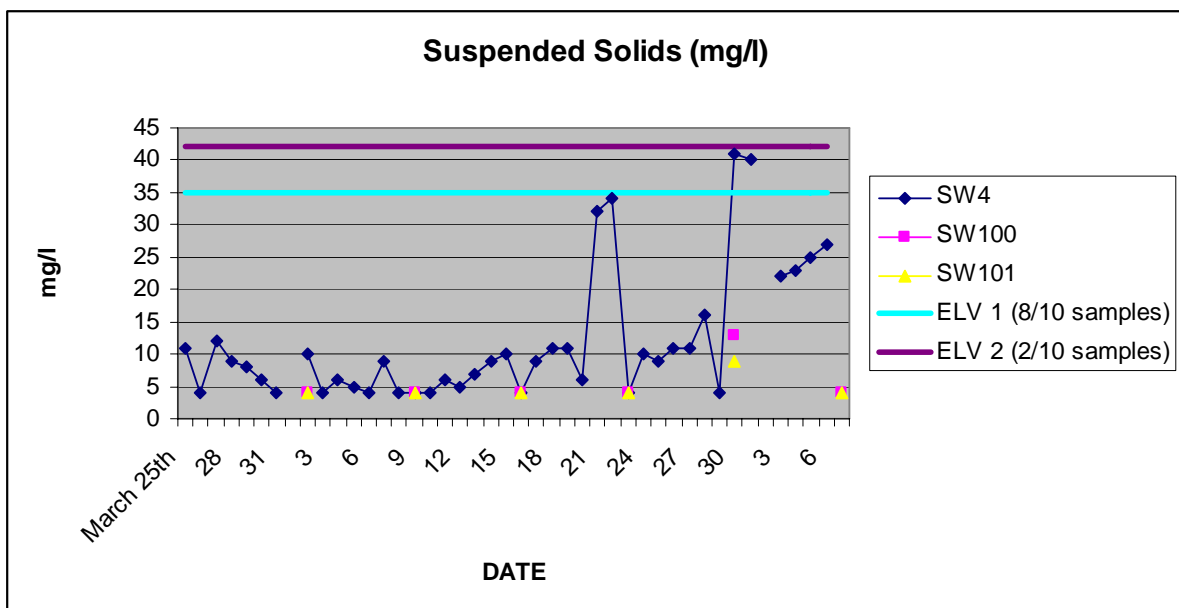
Environmental Monitoring:

- The Srahmore site was fully compliant regarding emissions since the last meeting (03/04/2007)
- There were no complaints received at the site since the last meeting.
- There were no incidents recorded at the site since the last meeting.

Results: Munhin River



Results: SW4/100&101



## Noise Monitoring:

Noise monitoring was carried out at the site on the 24<sup>th</sup> April. The report is due this week, but initial indications are that noise from the site does not have any significant impact on the existing noise environment. Monitoring is again required on weeks 6 and 12 of operations.

## Dust Monitoring:

The 5 dust monitoring locations have been sampled last week and results ranged from 11 – 174 mg/m<sup>2</sup>/day with a limit of 350 mg/m<sup>2</sup>/day.

## Srahmore Site Update:

### Personnel:

#### On Site

		Tractor & General Oper.	28	Environmental	1
BnM (Engineering)	1	Fitters	5	Archaeological	0
Site Admin & Mgt.	2	Electricians	1		
		Site Supervisors	5		
		Excavator & Shovel	24		
<b>TOTAL EMPLOYED</b>					<b>67</b>

#### Contractors

Security	30	Catering	3		
<b>TOTAL EMPLOYED</b>					<b>33</b>

#### Off Site

Head Offices Staff	2			BnM (Support)	1
Environmental Officer	1				
<b>TOTAL EMPLOYED</b>					<b>4</b>

<b>OVERALL TOTAL EMPLOYED</b>	<b>104</b>
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### Haulage Report – Friday 11 May

Date	Deliveries	Tonnes
Mon 02 Apr 07	55	1,249
Tue 03 Apr 07	109	2,580
Wed 04 Apr 07	112	2,571
Thu 05 Apr 07	121	2,784
Fri 06 Apr 07		
Mon 09 Apr 07		
Tue 10 Apr 07	142	3,121
Wed 11 Apr 07	154	3,433
Thu 12 Apr 07	170	4,061
Fri 13 Apr 07	153	3,504
Mon 16 Apr 07	204	4,860
Tue 17 Apr 07	235	5,753
Wed 18 Apr 07	243	6,025
Thu 19 Apr 07	248	5,888
Fri 20 Apr 07	257	6,177
Mon 23 Apr 07	206	5,035
Tue 24 Apr 07	252	6,275
Wed 25 Apr 07	226	5,447
Thu 26 Apr 07	255	6,222
Fri 27 Apr 07	248	5,918
Mon 30 Apr 07	233	5,870
Tue 01 May 07	247	6,191
Wed 02 May 07	246	6,179
Thu 03 May 07	246	6,130
Fri 04 May 07	236	6,336
Mon 07 May 07		
Tue 08 May 07	254	6,207
Wed 09 May 07	253	6,275
Thu 10 May 07	243	6,074
Fri 11 May 07	216	5,884
Mon 14 May 07	229	5,895
<b>Total</b>	<b>5793</b>	<b>141,944</b>

	Tonnes	Deliveries
<b>2005</b>	112,937	4,881
<b>2007</b>	141,944	5,793
<b>Total</b>	<b>254,881</b>	<b>10,674</b>

On-going work:

Bog mat laying.

Internal access road construction complete.

Deposition in bays 2, 3 & 4.

Work on swale gate to provide for rainfall exceeding swale capacity.

Drainage and maintenance.

**As of the 11/05/07, all emissions from the Srahmore Site are in Compliance with the conditions of the Waste Licence.**

# Bellanaboy Bridge Site

## Report to The Project Monitoring Committee

16<sup>TH</sup> May 2007

### Works Undertaken

The following works have been completed;

- Installation of testing laboratory.
- Setting up CMC cabins on site
- Temporary embankment road at the terminal for import pipeline

The following construction operations are ongoing;

- Operation of new Axonics plant.
- Geotechnical monitoring.
- Bored piling.
- Excavation and haulage of peat
- Excavation of unsuitable material
- Stockpile area management
- Concrete works
- Construction contractors temporary facilities
- ESB substation and main entrance

### Outlook From May 2007 Onwards

- Continuation of monitoring and on going construction operations.
- Continuation of peat excavation and haulage.
- Excavation of unsuitable material.
- Stockpile area management.
- Fit out of CMC cabins.
- ESB substation and main entrance.
- LER Switch Room
- Waste Water Treatment Plant Sump
- Installation of stairs at Axonics to replace permanent ladders.

### ENVIRONMENTAL REPORT

**Dust** – The results for the monitoring period April 2006 at the monitoring locations (D1, D2, D3 and D4) were 77, 108, 283 and 352 mg per m<sup>2</sup> per day averaged over a 30 day period. All values, with the exception of D4, were below the 350 mg per

m<sup>2</sup> per day limit. D4 was marginally in exceedance due to vegetation debris.

**Fuel** – Approximately 193.2 m<sup>3</sup> of fuel was delivered to site in April.

**Noise** – All relevant noise levels recorded were below the L<sub>Aeq</sub>65 dB(A) threshold and any unusual values were explained by local occurrences.

**Vibration monitoring** – All vibration monitoring results were within guidance values.

**Traffic** – There were approximately 4,227 HGV movements ( deliveries to site and peat haulage loads ) during April.

**Waste** – Three skips of refuse (canteen waste, etc. ), 1 skip of metal waste and 3 skips of timber waste were removed off site during April. There were 4 shipments of hazardous waste ( oily materials ). The effluent holding tanks were emptied of approximately 136.4 m<sup>3</sup> during April. Approximately 2.6 m<sup>3</sup> were removed from the on site portaloos in the same period.

**Water Quality** – All monitoring and sampling locations were accessible for download, recalibration and reinstallation during the month of April.

A summary of the main surfacewater parameters measured for grab sampling during April 2007(available range of lowest to highest) at SP1 is presented below;

pH ( pH Units )

6.5 to 7.5

Suspended Solids ( mg/l)

<4 to 25

Orthophosphate ( ug/l P )

< 10 to 38

Nitrate ( mg/l NO<sub>3</sub> )

<LOD to 0.4

Conductivity ( uS/cm )

237 to 319

Turbidity ( NTU )

2 to 55

Groundwater samples were taken and borehole monitoring equipment was downloaded for the month of April. A summary of the main groundwater parameters measured (range of lowest to highest) follows:

pH

5.2 to 6.3

Conductivity (uS/cm)

229 to 461

Nitrate (mg/l NO<sub>3</sub>)

Not Detectable

Phosphate (mg/l P)

0.02 – 0.16

Total Dissolved Solids ( mg/l )

116 - 316

**Complaints** – There were no construction activity related complaints logged with either SEPIL or RBL during the month of April.

**Incidents** – There were no environmental incidents during the month of April.

**Exceedances** – There was one additional exceedance at SP1 during April relating to Total Suspended Solids on the 25<sup>th</sup> April following an exceptional heavy storm rainfall

event. The exceedance has since been closed out.

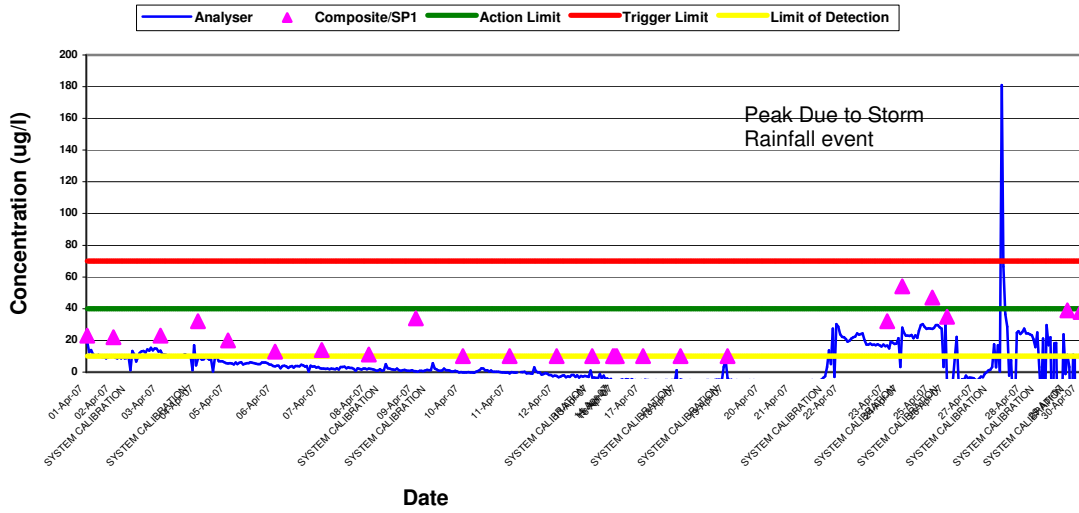
### **Necessary Environmental Works**

- Continuous drainage maintenance.
- Continuous operation of on-site surface water treatment plant.
- Remove of all waste and effluent from site on an as needs basis.
- Inspect, repair (when required) and recalibrate all in situ monitoring equipment.
- Monitor/sample and download water (surface and ground) quality monitoring devices.

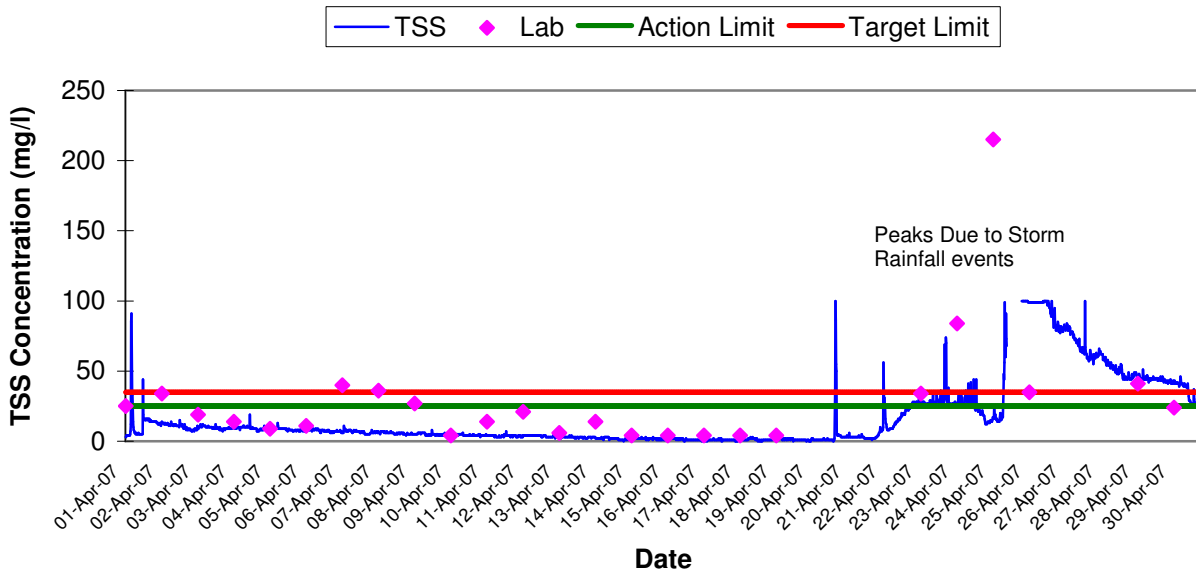
### **Environmental Improvements**

- Additional in drain mitigation works were carried out around the site through the provision of additional weirs, shingle, bank stabilisation and sand bagging.
- Chemical and spill awareness training was provided to supervisory and other staff.
- Settlement ponds now being used for storm water retention and treatment where feasible.

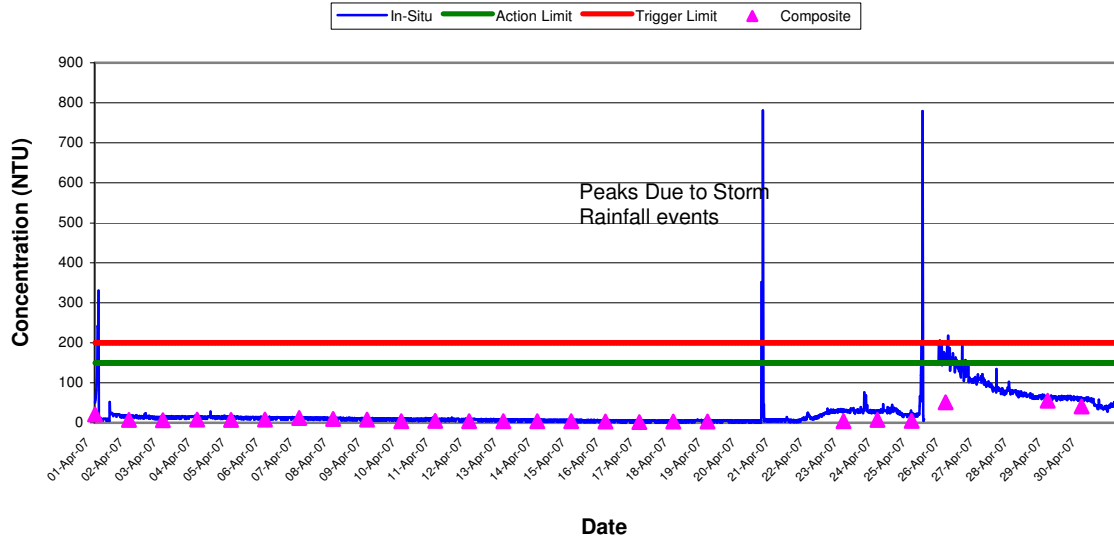
### Orthophosphate Results at SP1 April 2007



### Total Suspended Solids Results at SP1 April 2007



### Turbidity Results at SP1 April 2007



# Corrib Gas Project

## Community Fund Framework Document May 2007

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### OUTLINE

- The Fund will be known as the Corrib Gas Project Community Fund.
- The value of the fund will be in the region of €450,000.
- Applications will be invited from registered Community Groups operating within the area contiguous to the peat haul route. No individual or private applications, or applications from outside the designated area will be considered.
- All Groups making application must be registered with the County Community Forum through the Community and Enterprise section of Mayo Co Council.
- Joint application by more than one Group may be considered.
- Applications will be considered within the following categories;
  - Social inclusion
  - Culture
  - Recreation
  - Environment
  - Enterprise
  - Social economy

### FUNDING

- The Evaluation Committee will recommend allocation of grants across these categories in accordance with the quality of applications received.
- Grant aid will range from 25% to 75% of the cost of each application approved.
- All categories may or may not be funded.
- Calls for a second round of applications will depend on outcome of first round evaluations and availability of funds.

## **PROGRAMME**

- Fund to be launched and promoted in May 2007.
- Standard application form to be prepared by Mayo County Council.
- Initial call for applications to be submitted by end June 2007.
- Applications to be submitted to and processed by Mayo Co Council Community and Enterprise section.
- Recommendations for funding of first round applications to be submitted to County Manager for approval by end of July 2007.

## **MEMBERSHIP OF EVALUATION COMMITTEE**

1. The Chair of the committee to be nominated by the Mayo County Manager;
2. Chairperson of Mayo County Community Forum, or nominee from outside the designated area;
3. The local community representative from the Project Monitoring Committee.
4. Director of Community and Enterprise with Mayo County Council, or nominee;
5. Area Director of Mayo County Council or Nominee;
6. Chairman of Area Committee of Mayo County Council pro temp.

## **IMPLIMENTATION**

- Offers of funding will be subject to standard requirements regarding tax compliance, appropriate insurance cover and arrangements for on-going management and maintenance .
  - All projects to be complete within twelve months of offer of funding .
  - Payments will be made on the basis of certified expenditure and final payment will be subject to satisfactory completion of the project.
-