

**APPENDIX 8.3**  
**Borehole Logs**

Client: Bord na Mona/Shell E&P	Site: Srahmore, Bangor-Erris, Co. Mayo.	Job No.: 1169	Scale: 1:50
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Grid Reference Easting: E084463 Northing: N323049	Elevation (mOD): 17.56m Borehole Diameter (Subsoil): 65mm Borehole Diameter (Rock): 65mm Borehole Depth (m): 13.5m	Date Started: 22/10/03 Date Completed: 22/10/03	Drill Contractor: Irish Drilling Ltd. Drill Method: Coring Logged by: P.K.
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Depth m	Description of Strata	Legend	OD Level m	Static Water Level 4/11/03	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
0.55	PEAT							50MM uPVC CASING	CEMENT  BENT ONITE
			15.09	▼				50MM uPVC SCREEN	3-7mm Pea Gravel
	Fine grained SAND, with clay/silt matrix, medium light grey to greenish grey.								
12.5									
13.5	SAND with fragments of Schist and Quartzite. Light grey to light greenish grey.								
	END OF BOREHOLE							END OF CASING	
18									

Remarks:

Client: Bord na Mona/Shell E&P	Site: Srahmore, Bangor-Erris, County Mayo.	Job No.: 1169	Scale: 1:50
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Grid Reference Easting: 084463 Northing: 323049	Elevation (mOD): 17.524 Borehole Diameter (Subsoil): 65mm Borehole Diameter (Rock): 65mm Borehole Depth (m): 23.7m	Date Started: 23/10/03 Date Completed: 24/10/03	Drill Contractor: Irish Drilling Ltd. Drill Method: Coring Logged by: PK
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Depth m	Description of Strata	Legend	OD Level m	Static Water Level 4/11/03	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
0.65	PEAT								
			15.09m	▼					
	Fine grained SAND with clay/silt matrix. Medium light grey to greenish grey.							50mm uPVC CASING	BENTONITE
12.7									
13.7	SAND with fregments of Schist and Quartzite. Light grey to light greenish grey.								
	Moderately weak to moderately strong narrowly banded, schistose (dipping 75 degrees), greenish brown, coarsely to medium grained and frequently flaky, extremely micaceous, haematitic, PSAMMITE, moderately weathered. Large (2mm) flaky, specular micas, exhibiting pronounced schistosity-parallel preferred orientation Discontinuities: Closely spaced, mainly schistosity paraller, sub-planar to undulose, rough surfaced, tight to moderately open.								
18									

Remarks:



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Grid Reference Easting: E083092 Northing: N323519	Elevation (mOD): 17.20m Borehole Diameter (Subsoil): 65mm Borehole Diameter (Rock): 65mm Borehole Depth (m): 6.1m	Date Started: 28/10/03 Date Completed: 28/10/03	Drill Contractor: Irish Drilling Ltd. Drill Method: Coring Logged by: P.K.
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Depth m	Description of Strata	Legend	OD Level m	Static Water Level 4/11/03	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
0.55	PEAT								CEMENT
	Fine grained SAND, with clay/silt matrix, medium light grey to greenish grey.		14.10	▼				50MM uPVC CASING	BENTONITE
12.3								50MM uPVC SCREEN	3-7mm Pea Gravel
14.0	SAND with fragments of eroded Quartzite, Sandstone and Schist. grey.								
	END OF BOREHOLE								
18									

Remarks:

Client: Bord na Mona/Shell E&P	Site: Srahmore, Bangor-Erris, County Mayo.	Job No.: 1169	Scale: 1:50
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Grid Reference Easting: 083092 Northing: 323519	Elevation (mOD): 17.17m Borehole Diameter (Subsoil): 65mm Borehole Diameter (Rock): 65mm Borehole Depth (m): 23.5m	Date Started: 27/10/03 Date Completed: 27/10/03	Drill Contractor: Irish Drilling Ltd. Drill Method: Coring Logged by: PK
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Depth m	Description of Strata	Legend	OD Level m	Static Water Level 4/11/03	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
0.55	PEAT								
	Fine grained SAND with clay/silt matrix. Medium light grey to greenish grey.		14.09	▼				50mm uPVC CASING	BENTONITE
12.0	SAND with fragments/cobbles of eroded Quartzite, Sandstone and Schist.								
14.3	Moderately weak to moderately strong thinly bedded/schistose (dipping 30-45 degrees), greenish grey (changing to brown below 21.4m), fine to medium grained micaceous PSAMMITE, moderately weathered. Occasional very thin (<20mm) highly weathered zones. Discontinuities: Very closely spaced, schistosity parallel, generally planar smooth to slightly rough, thick to moderately open, strongly discoloured and clay/rock material filled.								
18									

Remarks: moderately open.

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Grid Reference Easting: 083092 Northing: 323519	Elevation (mOD): 17.17m Borehole Diameter (Subsoil): 65mm Borehole Diameter (Rock): 65mm Borehole Depth (m): 23.5	Date Started: 27/10/03 Date Completed: 27/10/03	Drill Contractor: Irish Drilling Ltd. Drill Method: Coring Logged by: PK
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
18m	As above						Packet Test Ref.: BH2B Test section: 15.75-23.5m	50mm uPVC Screen	3-7mm Pea Gravel
23.5	END OF BOREHOLE								

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Grid Reference Easting: E084908 Northing: N323745	Elevation (mOD): 20.29m Borehole Diameter (Subsoil): 65mm Borehole Diameter (Rock): 65mm Borehole Depth (m): 12.5m	Date Started: 28/10/03 Date Completed: 28/10/03	Drill Contractor: Irish Drilling Ltd. Drill Method: Coring Logged by: P.K.
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Depth m	Description of Strata	Legend	OD Level m	Static Water Level 4/11/03	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
1.55	PEAT		18.52	▼				50MM uPVC CASING	CEMENT BENT ONITE
5.5	Fine grained SAND, with clay/silt matrix, medium light grey to greenish grey.							50MM uPVC SCREEN	3-7mm Pea Gravel
18	END OF BOREHOLE								END OF CASING

Remarks:



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Grid Reference Easting: 084908 Northing: 323745	Elevation (mOD): 20.26m Borehole Diameter (Subsoil): 65mm Borehole Diameter (Rock): 65mm Borehole Depth (m): 16m	Date Started: 29/10/03 Date Completed: 29/10/03	Drill Contractor: Irish Drilling Ltd. Drill Method: Coring Logged by: PK
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Depth m	Description of Strata	Legend	OD Level m	Static Water Level 4/11/03	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
1.55	PEAT								
6.0	Fine grained SAND with clay/silt matrix. Medium light grey to greenish grey.		18.02	▼				50mm uPVC CASING	BENTONITE
16	Strong to very strong, massive but locally narrowly banded (dipping 35 degrees), grey to yellowish grey, fine grained micaceous QUARTZITE, fresh to slightly weathered. Mica locally occurring as close to very closely spaced bands/laminae dipping circa 35 degrees. Discontinuities: Between non-intact zones, fractures are closely to very closely spaced, bedding parallel, (dipping about 35 degrees), generally sub-planar, smooth to slightly rough, generally clean.						Packet Test Ref.: BH3B Test section: 11.75-16.0m	50mm uPVC SCREEN	3-7mm Pea Gravel
	END OF BOREHOLE								

Remarks:



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Grid Reference Easting: 084489 Northing: 323373	Elevation (mOD): 17.22 Borehole Diameter (Subsoil): 65mm Borehole Diameter (Rock): 65mm Borehole Depth (m): 30m	Date Started: 01/11/03 Date Completed: 01/11/03	Drill Contractor: Irish Drilling Ltd. Drill Method: Coring Logged by: PK
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Depth m	Description of Strata	Legend	OD Level m	Static Water Level 4/11/03	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
3.1	PEAT		14.81	▼					
	Fine grained SAND with clay/silt matrix. Medium light grey to greenish grey.							50mm uPVC CASING	BENTONITE
18								50mm uPVC SCREEN	3-7mm Pea Gravel

Remarks:

