



Appendix 3:
Boreholes logs for BH1, BH2, BH3, BH-4, BH-4A,
BH10 and BH11

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Monitoring Well Log

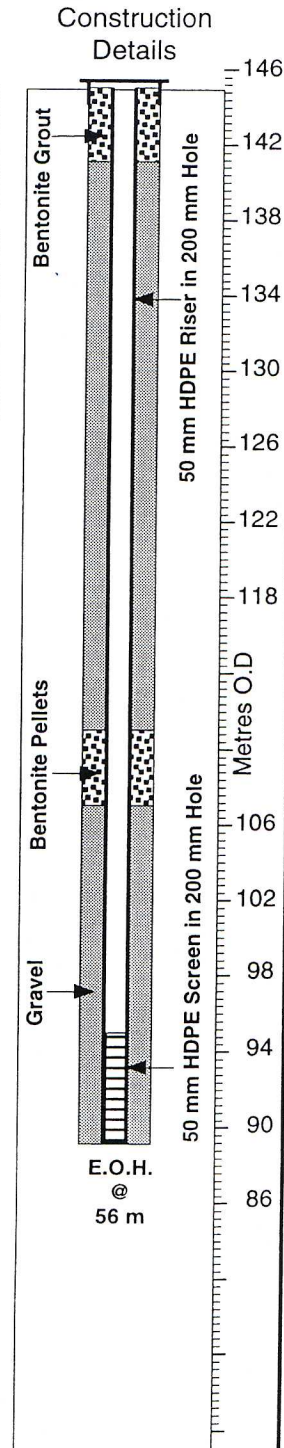
Monitoring Well BH 1

Client : Seamus Murphy.
Location : Hollywood, Co. Dublin
Job No : 1698
Date : 3/9/98
Description : Monitoring Well

Drilling Company : Glovers Site Investigations Ltd.
Drilling Method : Air Rotary
Drillers Name :
National Grid Co. Ord. : 315448 East 257939 North
Ground Surface Elev. : 145.9 m OD Malin Head
Logged by : Clare Glanville

Metres	Shell & Auger	Air Rotary	250 mm Casing	200 mm Casing	150 mm Casing	Water Strike	Inflow m ³ /day	Falling Head K(m/s)	Sample				
									Number	SPT	Type	Depth	
												From	To
0													
4													
8													
12													
16													
20													
24													
28													
32													
36													
40													
44													
48													
52													
56													
60													
64													
68													
72													

Drilling Notes and Strata Description	
0 - 4 m	Light brown silty clayey GRAVEL
4 - 8 m	Grey/Brown sand with GRAVEL and Silt
8 - 12 m	Orange/Brown Silt and Clay
12 - 20 m	Grey/Black Shale Rock Fragments with clay and silt
20 - 36 m	Brown/Grey Sandy silt with rock fragments
36 - 42 m	Brown Sandy silt with rock fragments (Weathered)
42 - 46 m	Grey shale chips with some brown silt
46 - 56 m	Black Shale chips with some brown silt



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 Hydrogeological & Environmental Consultants

Sample / Test Legend
 U - U100 Tubes
 SS - Slit Spoon
 SPT - Standard Penetration Test

Figure No.

Monitoring Well Log

Monitoring Well BH 2

Client : Seamus Murphy.
Location : Hollywood, Co. Dublin
Job No : 1698
Date : 16/7/98
Description : Monitoring Well

Drilling Company : Glovers Site Investigations Ltd.
Drilling Method : Air Rotary
Drillers Name :
National Grid Co. Ord. : 315561 East 257897 North
Ground Surface Elev. : 103.3 m OD Malin Head
Logged by : John Mitchell

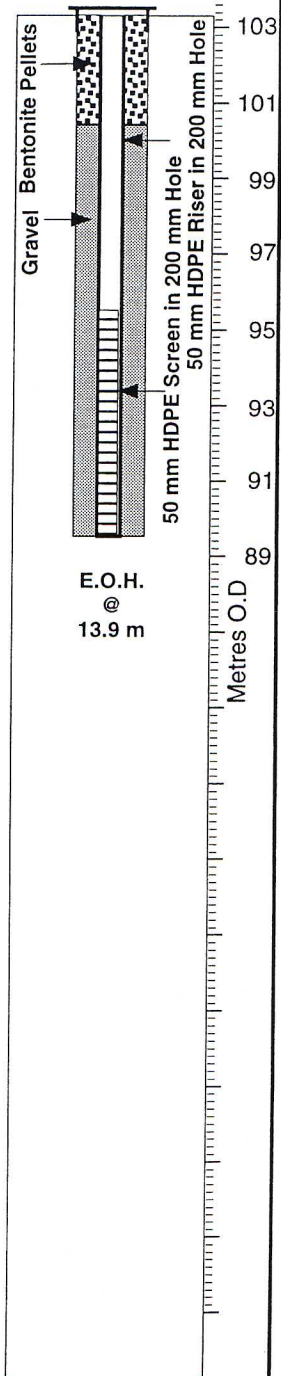
Metres	Shell & Auger	Air Rotary	250 mm Casing	200 mm Casing	150 mm Casing	Water Strike	Inflow m ³ /day	Falling Head K(m/s)	Sample										
									Number	SPT	Type	Depth							
												From	To						
0																			
2																			
4																			
6																			
8																			
10																			
12																			
14																			
16																			
20																			
22																			
24																			
26																			
28																			
30																			
32																			
34																			
36																			

Drilling Notes and Strata Description

0-13.9m Limestone BEDROCK

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Construction Details



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Sample / Test Legend
 U - U100 Tubes
 SS - Silt Spoon
 SPT - Standard Penetration Test

Figure No.

Monitoring Well Log

Monitoring Well BH 3

Client : Seamus Murphy.
Location : Hollywood, Co. Dublin
Job No : 1698
Date : 17/7/98
Description : Monitoring Well

Drilling Company : Glovers Site Investigations Ltd.
Drilling Method : Air Rotary
Drillers Name :
National Grid Co. Ord. : 315624 East 258176 North
Ground Surface Elev. : 104.6 m OD Malin Head
Logged by : John Mitchell

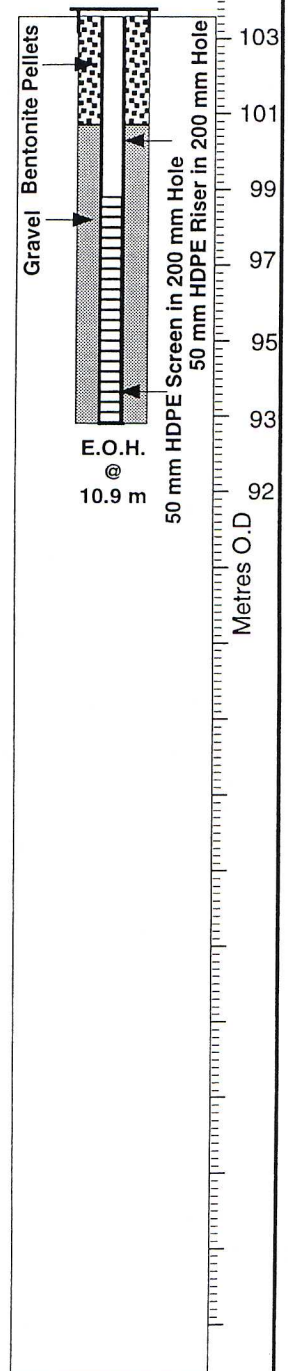
Metres	Shell & Auger	Air Rotary	250 mm Casing	200 mm Casing	150 mm Casing	Water Strike	Inflow m ³ /day	Falling Head K(m/s)	Sample										
									Number	SPT	Type	Depth							
												From	To						
0																			
2																			
4																			
6																			
8																			
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32																			
34																			
36																			

Drilling Notes and Strata Description

0-10.9m Shale BEDROCK

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Construction Details



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Sample / Test Legend
 U - U100 Tubes
 SS - Silt Spoon
 SPT - Standard Penetration Test

Figure No.

Monitoring Well Log

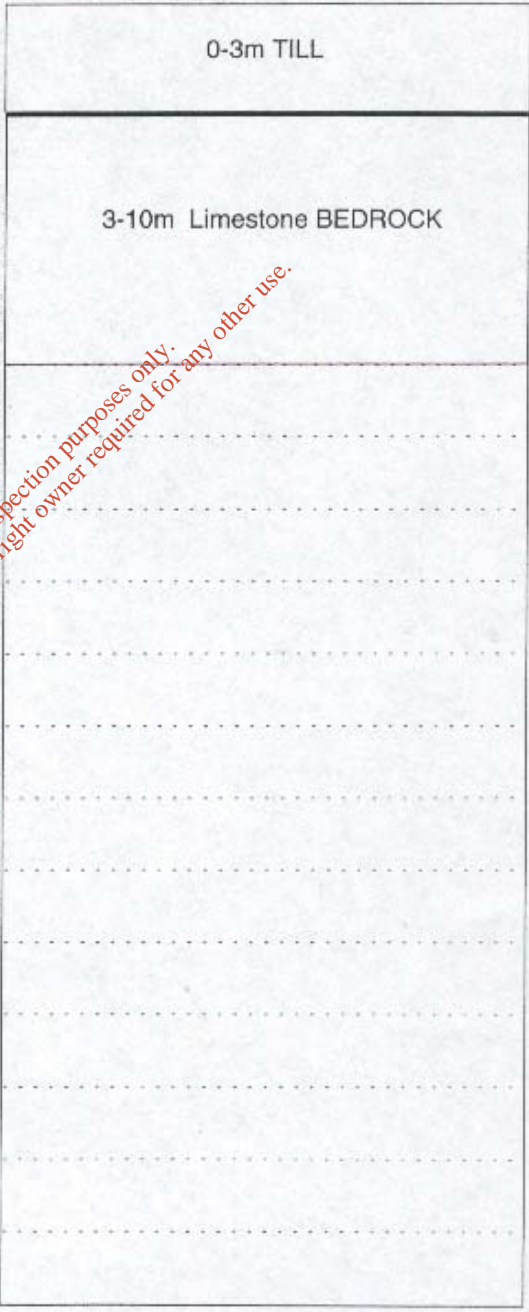
Monitoring Well BH 4

Client : Seamus Murphy.
Location : Hollywood, Co. Dublin
Job No : 1698
Date : 3/9/98
Description : Monitoring Well

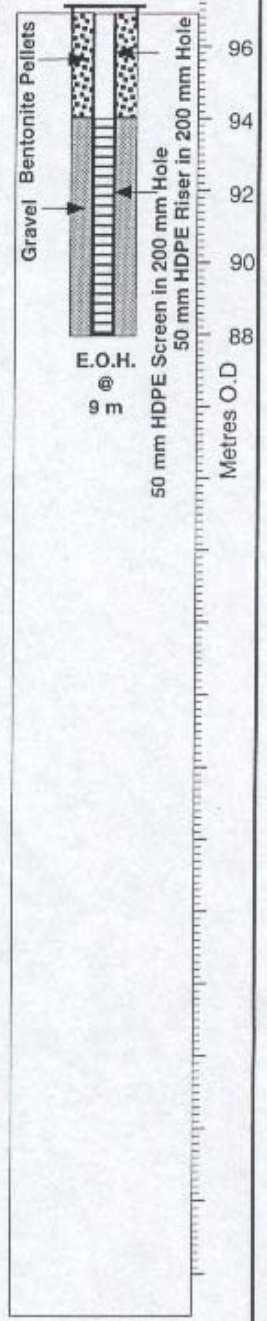
Drilling Company : Glovers Site Investigations Ltd.
Drilling Method : Air Rotary
Drillers Name :
National Grid Co. Ord. : 326044 East 257842 North
Ground Surface Elev. : 96.9 m OD Malin Head
Logged by : Clare Glanville

Metres	Shell & Auger	Air Rotary	250 mm Casing	200 mm Casing	150 mm Casing	Water Strike	Inflow m ³ /day	Falling Head K(m/s)	Sample											
									Number	S	Type	Depth								
												From	To							
0																				
2																				
4																				
6																				
8																				
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32																				
34																				
36																				

Drilling Notes and Strata Description



Construction Details



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 Hydrogeological & Environmental Consultants

Sample / Test Legend
 U - U100 Tubes
 SS - Silt Spoon
 SPT - Standard Penetration Test

Figure No.

BH4 A

DUNNES DRILLING

No: 5668

DRILLERS LOG

WELL DRILLING AND HORIZONTAL DRILLING ENGINEERS

Borehole for: Murphy Environmental Hollywood Ltd
at Hollywood Quarry

Dublin Road, Dromiskin, Dundalk, Co. Louth.

E-Mail: info@dunnesdrilling.com website: www.dunnesdrilling.com

Tel: +353 42 9372188 Fax: +353 42 9372714

8" Monitoring Well

Date	Depth ft	Diam	Conditions
18.11.08	0 - 3	8"	Clay & stones
	3 - 14	8"	Sticky clay
	14 - 17	8"	Grey rock
	17 - 25	8"	Black rock - water at 25ft
	25 - 30	8"	Black rock
	30 - 40	8"	Black rock - water at 35ft

Total depth of well 40ft (12.19m)
 Estimated yield 1000 gallons per hour
 Depth to rock 14ft (4.27m)
 Steel casing installed 17ft (5.18m) of 8" steel casing
 PVC casing installed 7m of 2" PVC
 Well screen 6m of 2" Screen
 Other remarks Install gravel pack from 40ft to 18ft. 6 bags of bentonite seal from 18ft to 3ft above ground level

Operator A Hoey

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Well Log

Well No. BH10

Grid Reference

Project No. 1698

Client Seamus Murphy

Drill Date 4/8/01

Well Type

Location Hollywood Great

Geologist C Connery

SUBSURFACE PROFILE

Description	Depth	Symbol	Well Construction
Ground Surface	0		
<i>Boulder clay</i> stiff brown very sandy gravelly clay containing cobbles and boulders	5	[Symbol: Stippled pattern with black dots]	
<i>Limestone Bedrock</i>	10		
Limestone	15		
	20		
	25		
	30		
	35		
	40		
	45		
	50		
	55		
	60		
	65		
	70		
	75		
	80		
End of Borehole	85		

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T. Cullen & Co. Ltd.

Drill Method Air rotary

Casing Length (m) 84

Driller Glovers Site Investigations

Hole Size (mm) 200

Ground Level (mOD)

Static Water Level (bgl)

Well Log

Well No. BH11

Grid Reference

Project No. 1698

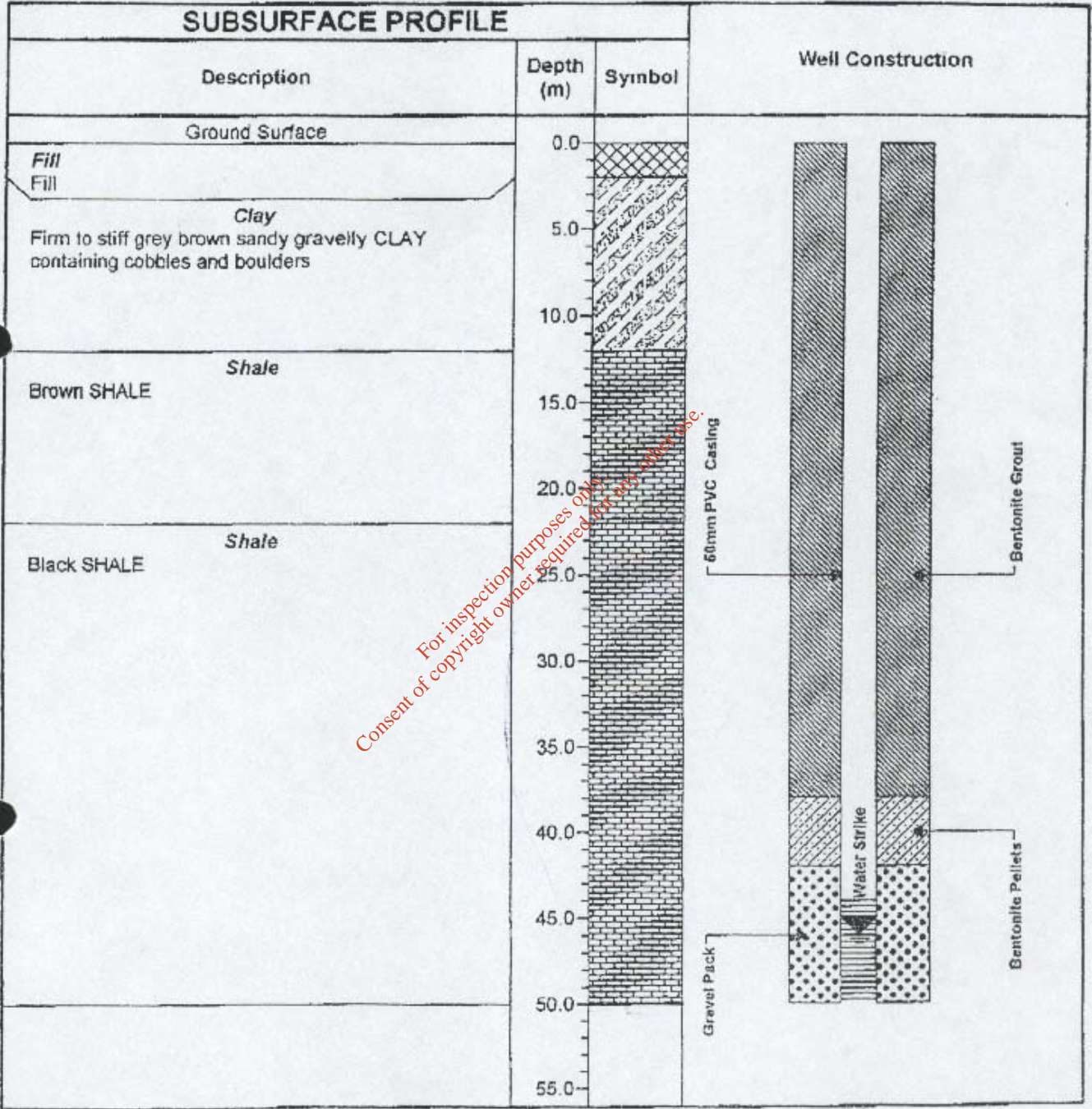
Client Seamus Murphy

Drill Date 3/8/01

Well Type

Location Hollywood Great

Geologist Ben Whitfield



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Drill Method Air Rotary

Hole Size (mm) 200

Casing Length (m) 50

TOC (mOD)

Driller Glovers Site Investigations

Static Water Level (bgl)