

APPENDIX 5A

PRE-EXISTING GROUND INVESTIGATION INFORMATION

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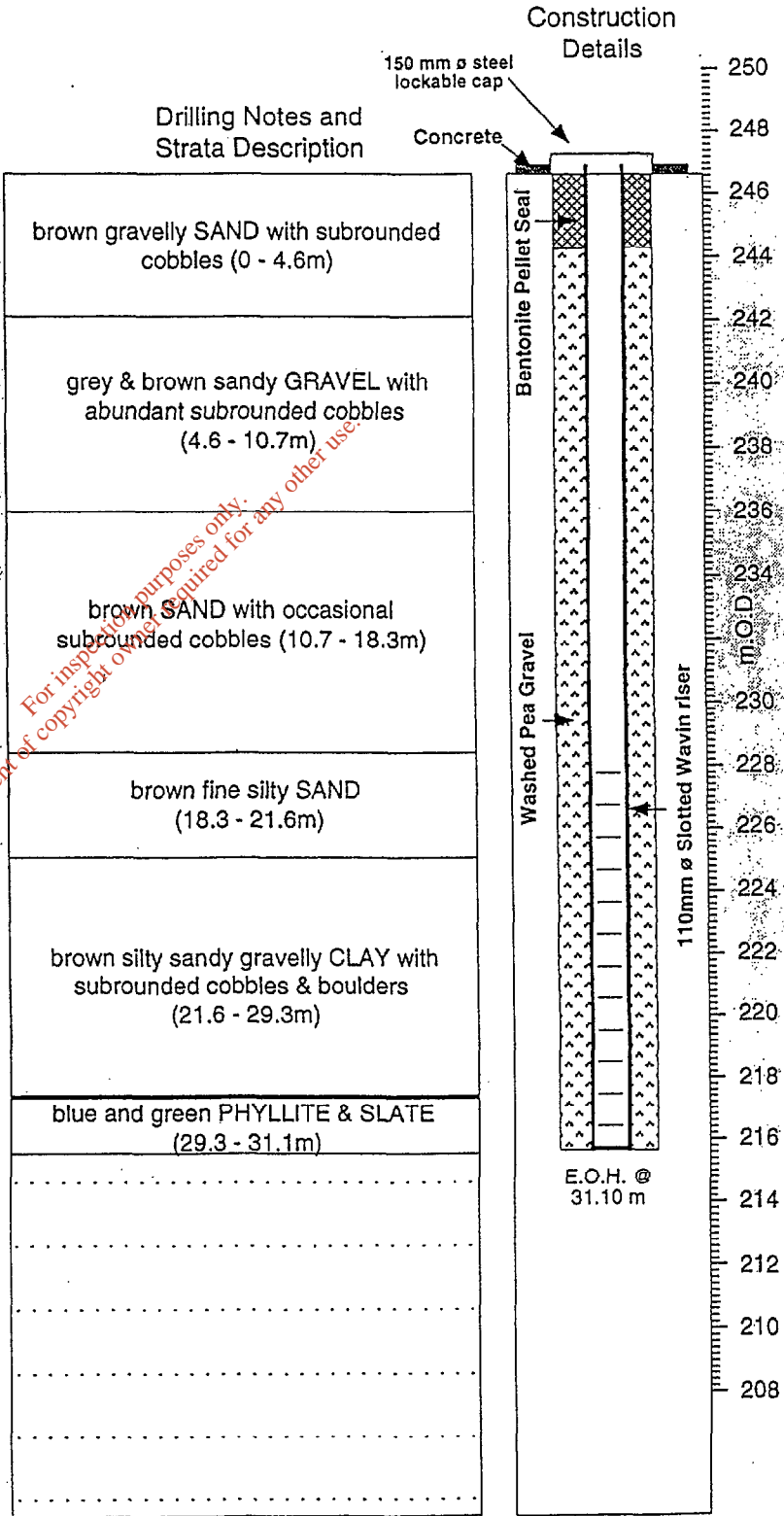
Borehole Log

Borehole No. BH-1

Client : Roadstone Dublin Ltd.
 Location : Blessington Quarry
 Job No : 1193
 Date : 12/11/96
 Description : Monitoring Well

Drilling Company : Glovers Site Investigation Ltd.
 Drilling Method : Air Rotary / ODEX
 Drillers Name : Mick Cronin
 National Grid Co. Ord. : 297180 East 215260 North
 Surface Elevation : 246.63 m O.D. (Malin Head)
 Logged by : Conor Walsh B.Sc.

Metres	Shell & Auger	ODEX (175mm)	Air Rotary (150mm)	200 mm Casing	150 mm Casing	Water Strike	Est. Inflow m ³ /d	Static Water	SPT (N)	Samples											
										Reference	Type	Depth									
												From	To								
0																					
2										1	grab	0	3.0								
6										2	grab	4.0	9.0								
8																					
10																					
12																					
14										3	grab	10.0	13.0								
16																					
18																					
20																					
22																					
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42																					



Sample / Test Legend
 U - U100 Tubes
 SS - Split Spoon
 SPT - Standard Penetration Test
 R - Refusal / No Recovery

Page No.

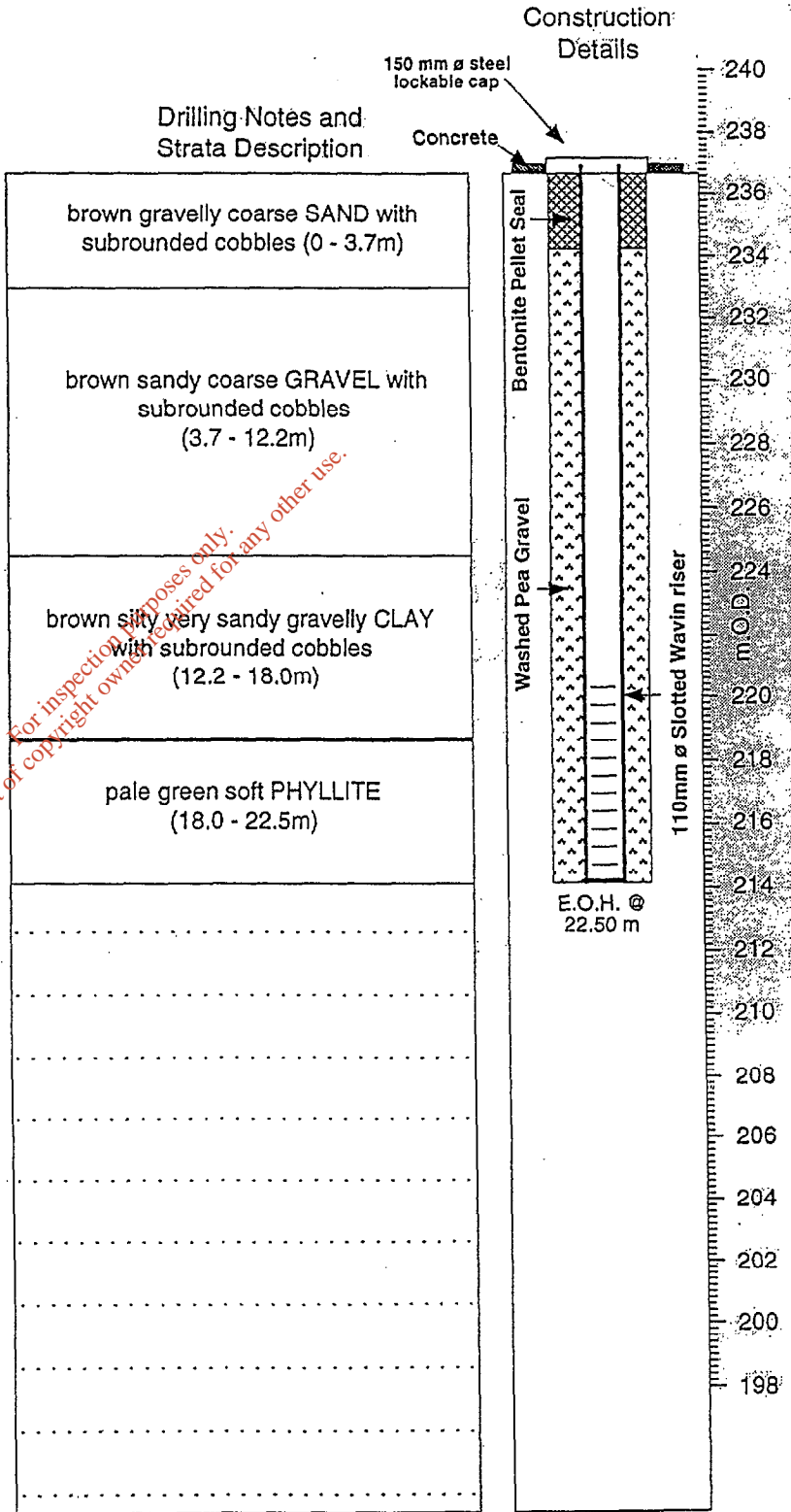
Borehole Log

Borehole No. BH-2

Client : Roadstone Dublin Ltd.
 Location : Blessington Quarry
 Job No : 1193
 Date : 13/11/96
 Description : Monitoring Well

Drilling Company : Glovers Site Investigation Ltd.
 Drilling Method : Air Rotary / ODEX
 Drillers Name : Mick Cronin
 National Grid Co. Ord. : 296750 East 215080 North
 Surface Elevation : 236.56 m O.D. (Malin Head)
 Logged by : Conor Walsh B.Sc.

Metres	Shell & Auger	ODEX (175mm)	Air Rotary (150mm)	200 mm Casing	150 mm Casing	Water Strike	Est. Inflow m ³ /d	Static Water	SPT (N)	Samples			
										Reference	Type	Depth	
												From	To
0													
2										1	grab	0	3.0
4													
6										2	grab	3.0	6.0
8										3	grab	6.0	9.0
10													
12										4	grab	9.0	12.0
14										5	grab	12.0	15.0
16													
18										6	grab	15.0	18.0
20													
22										7	grab	18.0	21.0
24													
26													
28													
30													
32													
34													
36													
38													
40													
42													



Sample / Test Legend

- U - U100 Tubes
- SS - Split Spoon
- SPT - Standard Penetration Test
- R - Refusal / No Recovery

Page No.

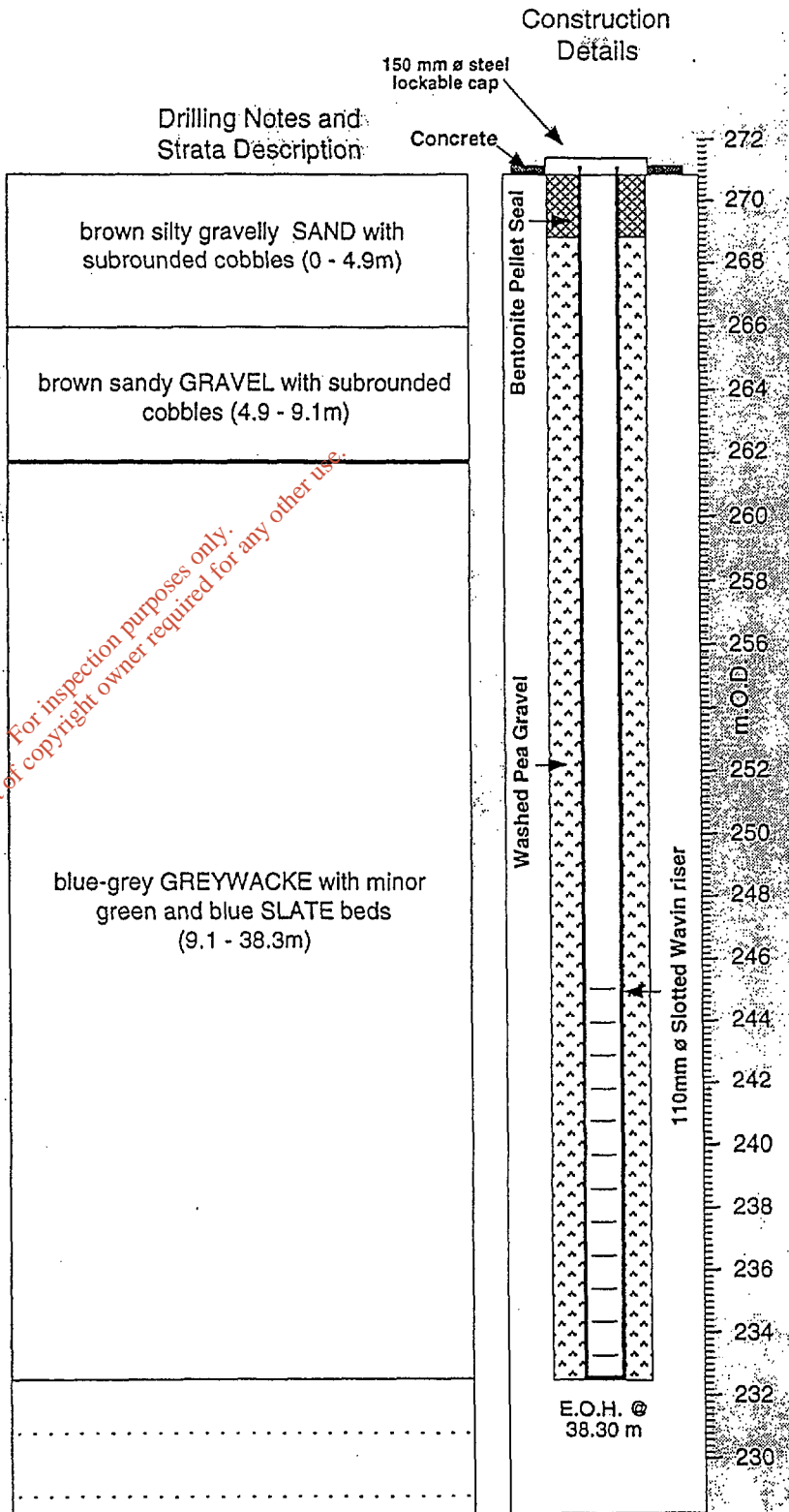
Borehole Log

Borehole No. BH-3

Client : Roadstone Dublin Ltd.
 Location : Blessington Quarry
 Job No : 1193
 Date : 14/11/96
 Description : Monitoring Well

Drilling Company : Glovers Site Investigation Ltd.
 Drilling Method : Air Rotary / ODEX
 Drillers Name : Mick Cronin
 National Grid Co. Ord. : 296550 East 215500 North
 Surface Elevation : 270.90 m O.D. (Malin Head)
 Logged by : Conor Walsh B.Sc.

Metres	Shell & Auger ODEX (175mm)	Air Rotary (150mm)	200 mm Casing	150 mm Casing	Water Strike	Est. Inflow m ³ /d	Static Water	SPT (N)	Samples			
									Reference	Type	Depth	
											From	To
0												
2									1	grab	0	3.0
4												
6									2	grab	3.0	6.0
8									3	grab	6.0	9.0
10												
12									4	grab	9.0	12.0
14									5	grab	12.0	15.0
16												
18									6	grab	15.0	18.0
20									7	grab	18.0	21.0
22												
24									8	grab	21.0	24.0
26									9	grab	24.0	27.0
28												
30									10	grab	27.0	30.0
32									11	grab	30.0	33.0
34												
36												
38									12	grab	33.0	38.0
40												
42												



Sample / Test Legend
 U - U100 Tubes
 SS - Split Spoon
 SPT - Standard Penetration Test
 R - Refusal / No Recovery

Page No.

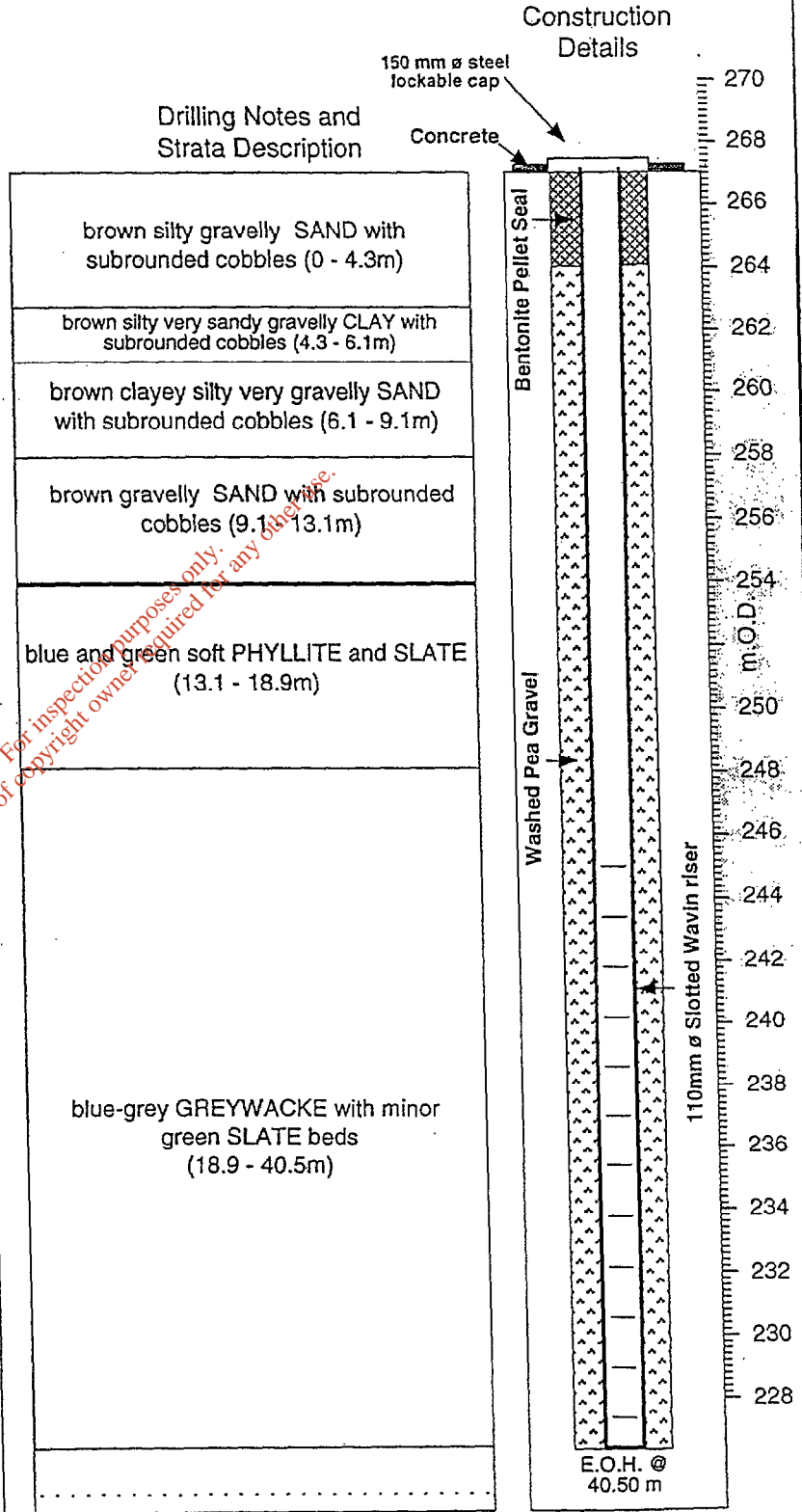
Borehole Log

Borehole No. BH-4

Client : Roadstone Dublin Ltd.
 Location : Blessington Quarry
 Job No : 1193
 Date : 15/11/96
 Description : Monitoring Well

Drilling Company : Glovers Site Investigation Ltd.
 Drilling Method : Air Rotary / ODEX
 Drillers Name : Mick Cronin
 National Grid Co. Ord. : 296850 East 215860 North
 Surface Elevation : 267.11 m O.D. (Malin Head)
 Logged by : Conor Walsh B.Sc.

Metres	Shell & Auger	ODEX (175mm)	Air Rotary(150mm)	200 mm Casing	150 mm Casing	Water Strike	Est. Inflow m3/d	Static Water	SPT (N)	Samples										
										Reference	Type	Depth								
												From	To							
0																				
2										1	grab	0	3.0							
4																				
6										2	grab	3.0	6.0							
8										3	grab	6.0	9.0							
10																				
12										4	grab	9.0	12.0							
14																				
16										5	grab	12.0	15.0							
18																				
20										6	grab	15.0	18.0							
22																				
24										7	grab	18.0	21.0							
26																				
28										8	grab	21.0	24.0							
30																				
32										9	grab	24.0	27.0							
34																				
36										10	grab	27.0	30.0							
38																				
40										11	grab	30.0	33.0							
42										12	grab	33.0	36.0							
										13	grab	36.0	39.0							



Sample / Test Legend
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Page No.

Borehole Log

Borehole No. BH-5

Client : Roadstone Dublin Ltd.
 Location : Blessington Quarry
 Job No : 1193
 Date : 15/11/96
 Description : Monitoring Well

Drilling Company : Glovers Site Investigation Ltd.
 Drilling Method : Air Rotary / ODEX
 Drillers Name : Mick Cronin
 National Grid Co. Ord. : 297080 East 215510 North
 Surface Elevation : 243.57 m O.D. (Malin Head)
 Logged by : Conor Walsh B.Sc.

Metres	Shell & Auger	ODEX (175mm)	Air Rotary (150mm)	200 mm Casing	150 mm Casing	Water Strike	Est. Inflow m ³ /d	Static Water	SPT (N)	Samples			
										Reference	Type	Depth	
												From	To
0													
2										1	grab	0 - 3.0	
4													
6										2	grab	3.0 - 6.0	
8										3	grab	6.0 - 9.0	
10													
12										4	grab	9.0 - 12.0	
14										5	grab	12.0 - 15.0	
16													
18										6	grab	15.0 - 18.0	
20													
22													
24													
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36													
38													
40													
42													

Drilling Notes and Strata Description

brown medium SAND (0 - 3.0m)

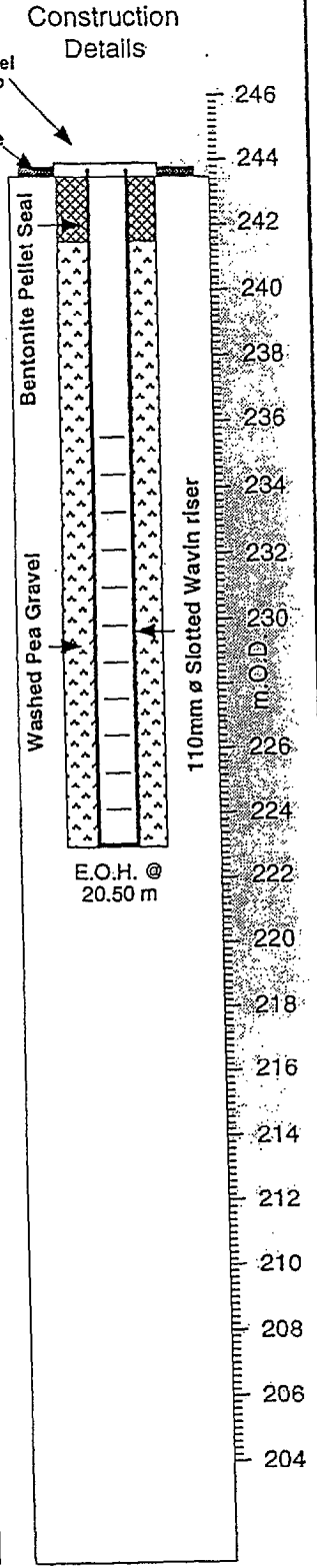
dark brown silty sandy gravelly CLAY with subrounded cobbles (3.0 - 4.6m)

green PHYLLITE and SLATE (4.6 - 12.2m)

blue grey GREYWACKE with minor green SLATE beds (12.2 - 20.5m)

E.O.H. @ 20.50 m

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Page No.

Borehole Log

Borehole No. BH-6

Client : Roadstone Dublin Ltd.
 Location : Blessington Quarry
 Job No : 1193
 Date : 16/11/96
 Description : Monitoring Well

Drilling Company : Glovers Site Investigation Ltd.
 Drilling Method : Air Rotary / ODEX
 Drillers Name : Mick Cronin
 National Grid Co. Ord. : 297240 East 215470 North
 Surface Elevation : 236.67 m O.D. (Malin Head)
 Logged by : Conor Walsh B.Sc.

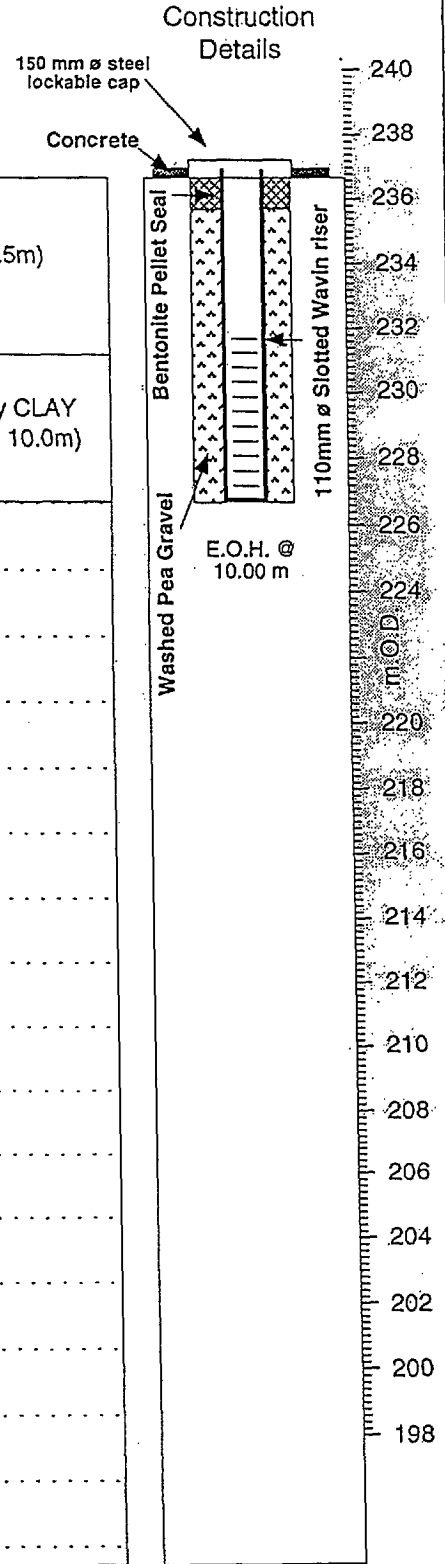
Metres	Shell & Auger	ODEX (175mm)	Air Rotary (150mm)	200 mm Casing	150 mm Casing	Water Strike	Est. Inflow m ³ /d	Static Water	SPT (N)	Samples			
										Reference	Type	Depth	
												From	To
0													
2										1	grab	0	3.0
4										2	grab	3.0	6.0
6										3	grab	6.0	9.0
8													
10													
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Drilling Notes and Strata Description

brown fine silty SAND (0 - 5.5m)

brown silty very sandy gravelly CLAY with subrounded cobbles (5.5 - 10.0m)

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Sample / Test Legend
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Page No.

Well Log

Well No. BH 1 GW 4/1

Grid Reference

Project No. C001685

Client Roadstone Blessington

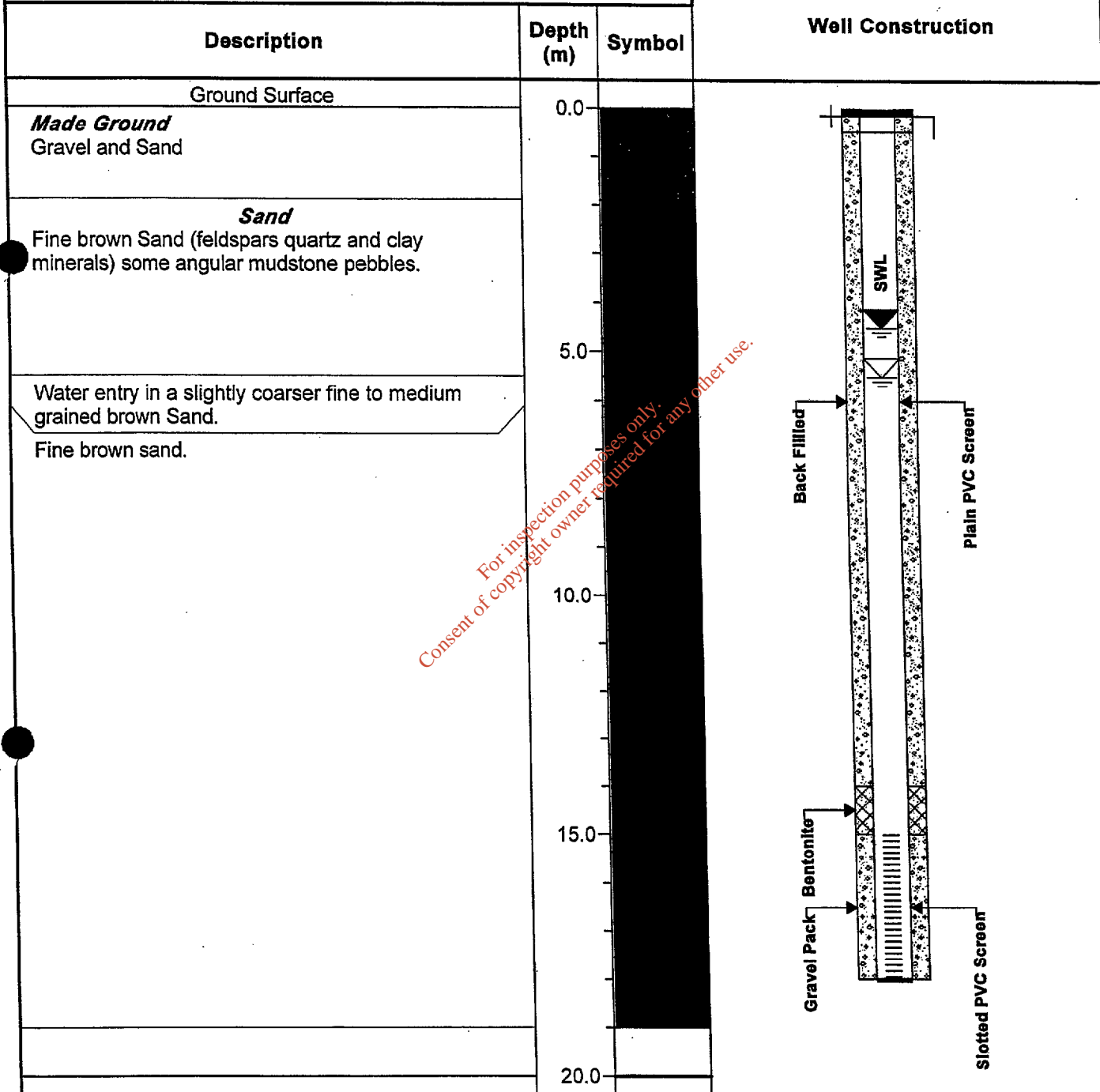
Drill Date 16th May 02

Well Type Monitoring Borehole

Location Blessington Co. Wicklow

Geologist Garrett Connell

SUBSURFACE PROFILE



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Drill Method Odex

Hole Size (mm) 200

Casing Length (m) 19

TOC (mOD) 218.1

Driller Colin Briody

Static Water Level (bgl) 7.5m

Well Log

Well No. BH 2

GW 4/2

Grid Reference

Project No. C001685

Client Roadstone Blessington

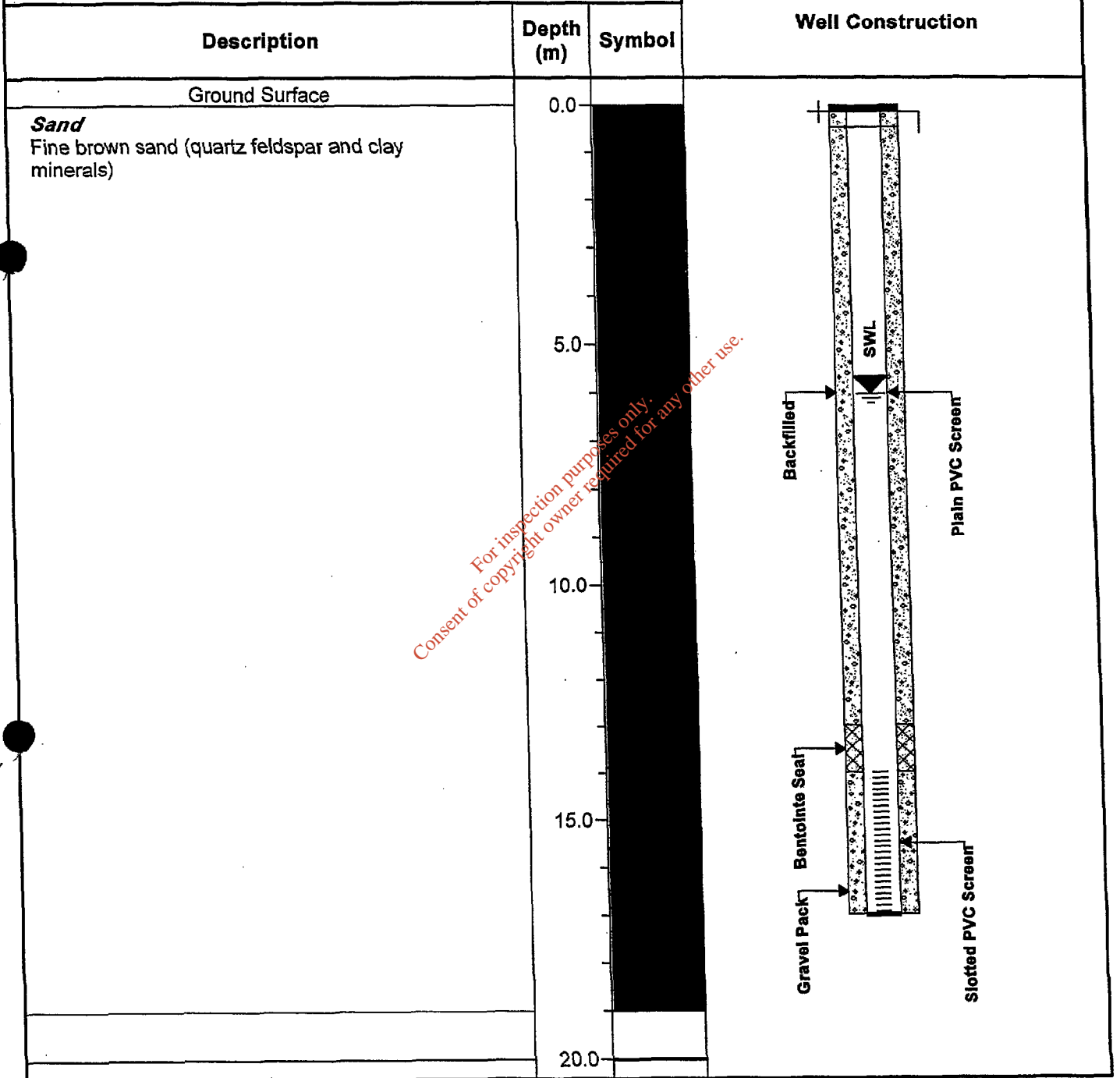
Drill Date 20th May 02

Well Type Monitoring Borehole

Location Biessington Co. Wickiow

Geologist Garrett Conneil

SUBSURFACE PROFILE



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Drill Method Odex
Casing Length (m) 19
Driller Colin Briody

Hole Size (mm) 200
TOC (mOD) 217.6
Static Water Level (bgl) 0.02

Well Log

Well No. BH 3

GW 6/4

Grid Reference

Project No. C001685

Client Roadstone Blessington

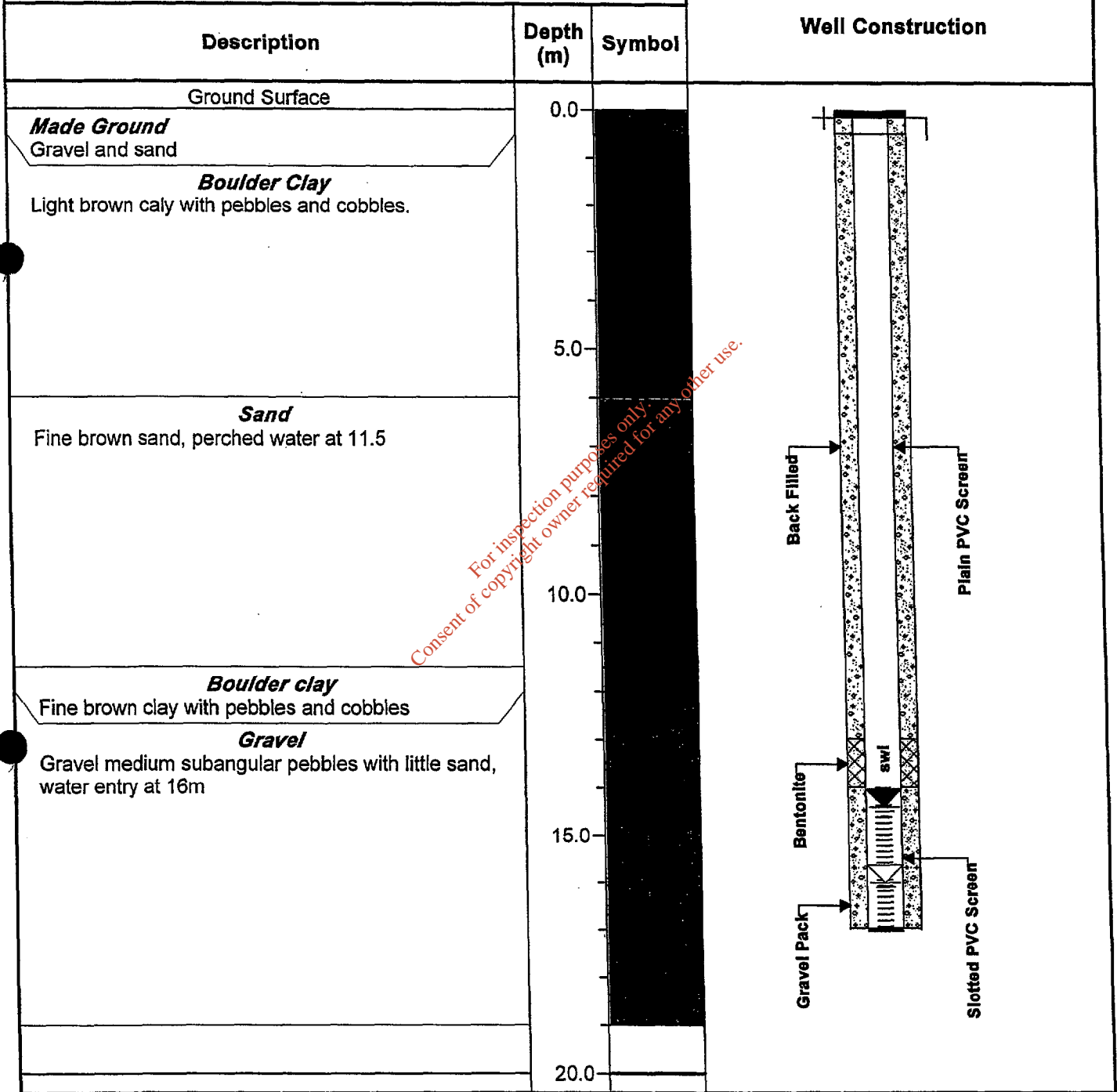
Drill Date 21st May 02

Well Type Monitoring Borehole

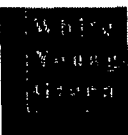
Location Blessington Co. Wicklow

Geologist Garrett Connell

SUBSURFACE PROFILE



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Drill Method Odex
 Casing Length (m) 19
 Driller Colin Briody

Hole Size (mm) 200
 TOC (mOD) 213.98
 Static Water Level (bgl) 6.68

Well Log

COOKEHILL GW 1

Well No. PW4

Project No. C002782

Client P.D. Lane Associates

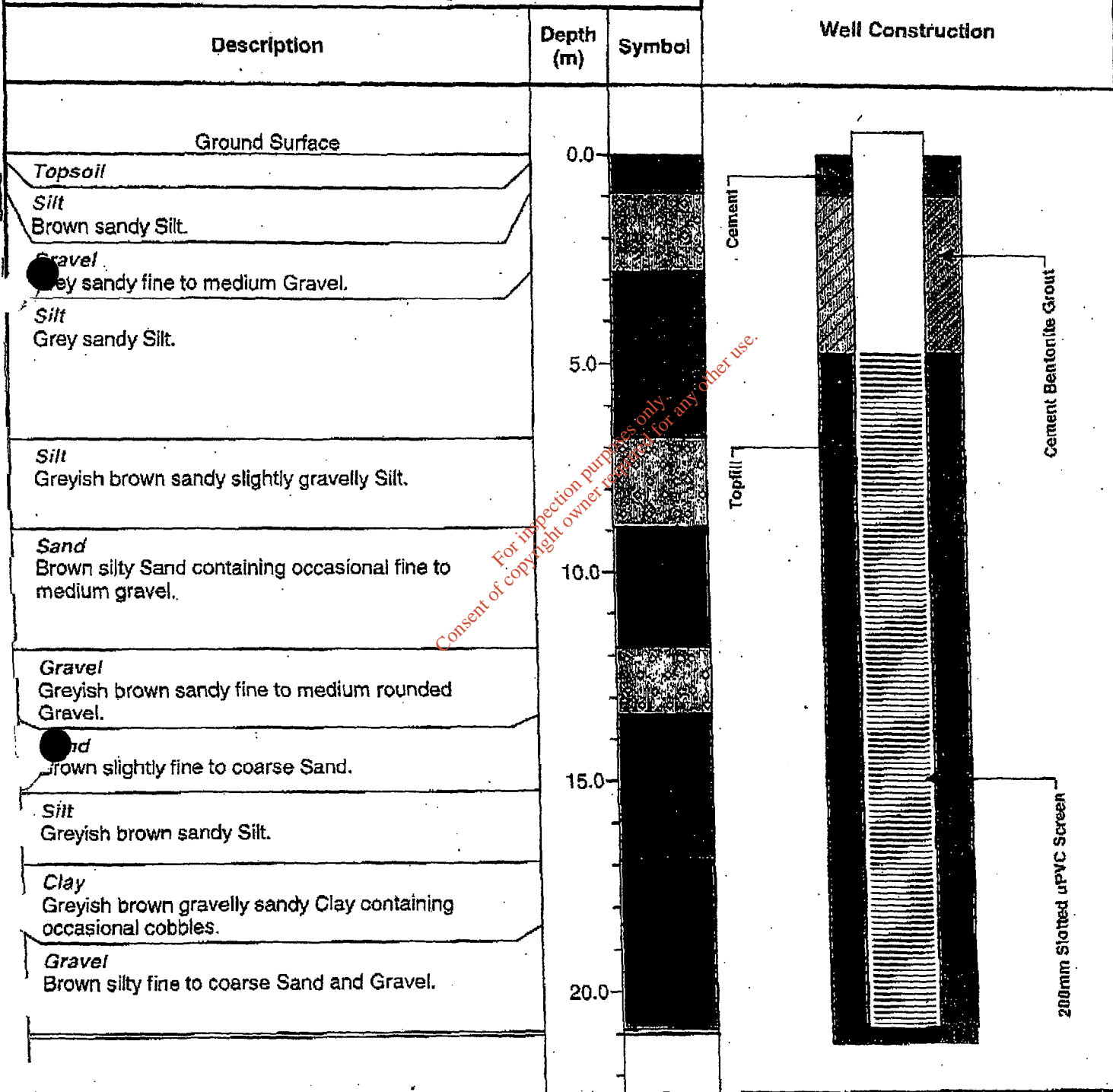
Drill Date 08/10/03

Well Type Production Well

Location Blessington

Well Logged By T.R.(Glovers S.I. Ltd.)

SUBSURFACE PROFILE



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Drill Method Shell & Auger

Casing Size (mm) 200

Casing Length (m).21

TOC (mOD)

Driller Glover Site Investigations Ltd. Static Water Level (bgl) 10.34