

APPENDIX 6F

GROUNDWATER WELL CONSTRUCTION RECORDS

For inspection purposes only.
Consent of copyright owner required for any other use.

Project Name Dorans Pit - Hydro GI	Project No. 2901-04	Co-ords: 298162E - 216238N	Hole Type ODEX
Location: Dillonsdown, Blessington, Co. Wicklow.	Level: 232.10 m AOD		Scale 1:100
Client: Roadstone Dublin Ltd. (RDL)	Date: 26/02/2003	Logged By PG	

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	1				Slightly silty gravelly SAND (SANDS & GRAVELS)
	2				
	3				
	4				
	5.00	227.10			
	6				Silty sandy GRAVEL (SANDS & GRAVELS)
	6.50	225.60			
	7				Sandy GRAVEL (SANDS & GRAVELS)
	8				
	9.50	222.60			
	10				
	11				SAND and GRAVEL (SANDS & GRAVELS)
	12				
	13				
	14				
	15.50	216.60	GW 1/1		
	16				Silty sandy GRAVEL (SANDS & GRAVELS)
	17.00	215.10			
	17				Sandy gravelly SILT/CLAY (SANDS & GRAVELS)
	18				
	19				

Content of this report is for inspection purposes only. Copyright owner required for any other use.

Continued next sheet

Remarks: 50mm PVC screw lock solid/slotted standpipe.
Backfilled using Silica sand and Bentonite Grout (shown as solid black)

Roadstone III (RDL207) Standard Borehole Log v1 dated 26th Mar 03

Project Name Dorans Pit - Hydro GI	Project No. 2901-04	Co-ords: 298162E - 216238N	Hole Type ODEX
Location: Dillonsdown, Blessington, Co. Wicklow.	Level: 232.10 m AOD	Scale 1:100	
Client: Roadstone Dublin Ltd. (RDL)	Date: 26/02/2003	Logged By PG	

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	20.00	212.10	GW 1/1		Silty sandy GRAVEL (SANDS & GRAVELS)
	23.00	209.10			Clayey silty sandy GRAVEL (SANDS & GRAVELS)
	30.50	201.60	GW 1/1		
	32.00	200.10			Light brown CLAY/SILT (Weathered Bedrock)
					End of Borehole at 32.00 m

For inspection purposes only. Copyright owner required for any other use.

Remarks: 50mm PVC screw lock solid/slotted standpipe.
Backfilled using Silica sand and Bentonite Grout (shown as solid black)



John Barnett and Associates Ltd.

Unit 7, Dundrum Business Park, Windy Arbour,
Dublin 14, Ireland.
Tel. + 353 1 2964667 Fax. + 353 1 2964676 www.csa.ie

Well No.

GW 1/2

Sheet 1 of 2

Project Name Dorans Pit - Hydro GI

Project No.
2901-04

Co-ords: 298285E - 216081N

Hole Type
ODEX

Location: Dillonsdown, Blessington, Co. Wicklow.

Level: 235.60 m AOD

Scale
1:100

Client: Roadstone Dublin Ltd. (RDL)

Date: 27/02/2003

Logged By
PG

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	1				Sandy gravelly cobbly SILT/CLAY (MADE GROUND)
	2				
	3				
	4				
	5.00	230.60			Silty SAND (SANDS & GRAVELS)
	6				
	7				
	8.00	227.60			Slightly silty fine SAND (SANDS & GRAVELS)
	9				
	10			GW 1/2	
	11				
	12				
	12.50	223.10			Silty SAND with some gravel (SANDS & GRAVELS)
	13				
	14				
	15.00	220.60			Gravelly silty CLAY (SANDS & GRAVELS)
	15.50	220.10			Slightly silty sandy GRAVEL (SANDS & GRAVELS)
	16				
	17				
	18			GW 1/2	
	19				

Copyright © JBA for inspection purposes only. No reproduction or use for any other use.

Continued next sheet

Remarks: 50mm PVC screwlock solid/slotted standpipe.
Backfilled using Silica sand and Bentonite grout (shown as solid black)

PICKBASE III (BK 207) Standard Borehole Log v1 dated 28th Mar 03

Project Name Dorans Pit - Hydro GI

Project No.
2901-04

Co-ords: 298147E - 215984N

Hole Type
ODEX

Location: Dillonsdown, Blessington, Co. Wicklow.

Level: 237.70 m AOD

Scale
1:100

Client: Roadstone Dublin Ltd. (RDL)

Date: 27/02/2003-03/03/2003

Logged By
PG

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	1				Slightly silty sandy GRAVEL (SANDS & GRAVELS)
	2				
	3				
	3.50	234.20			
	4				Light brown slightly sandy gravelly CLAY (SANDS & GRAVELS)
	5	232.70			
	5.00				Slightly silty SAND and GRAVEL (SANDS & GRAVELS)
	6				
	7				
	8	229.70			Silty fine SAND (SANDS & GRAVELS)
	8.00				
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	18				
	19				

GW 1/3

Copyright © for inspection purposes only. All rights reserved. No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without permission in writing from the copyright owner.

Continued next sheet

Remarks: 50mm PVC screw lock solid/slotted standpipe.
backfilled using Silica sand and Bentonite grout (shown as solid black)

Project Name Dorans Pit - Hydro GI Project No. 2901-04 Co-ords: 298147E - 215984N Hole Type ODEX

Location: Dillonsdown, Blessington, Co. Wicklow. Level: 237.70 m AOD Scale 1:100

Client: Roadstone Dublin Ltd. (RDL) Date: 27/02/2003-03/03/2003 Logged By PG

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	20.00	217.70			Silty gravelly CLAY (SANDS & GRAVELS)
	21				
	22				
	23				
	24				
	25				
	26				
	27				
	28		GW 1/3		
	29.00	208.70			SAND and GRAVEL (SANDS & GRAVELS)
	30				
	31				
	32				
	33				
	34				
	34.50	203.20			Slightly silty sandy GRAVEL (SANDS & GRAVELS)
	35				
	36				
	37				
	38.00	199.70			GRAVEL (SANDS & GRAVELS)
	39				

Copyright © JBA Inspection purposes only.
 Consent of copyright owner required for any other use.

Remarks: 50mm PVC screw lock solid/slotted standpipe.
backfilled using Silica sand and Bentonite grout (shown as solid black)



John Barnett and Associates Ltd.

Unit 7, Dundrum Business Park, Windy Arbour,
Dublin 14, Ireland.

Tel. + 353 1 2964667 Fax. + 353 1 2964676 www.csa.ie

Well No.

GW 1/4

Sheet 1 of 2

Project Name Dorans Pit - Hydro GI

Project No.
2901-04

Co-ords: 298009E - 216105N

Hole Type
ODEX

Location: Dillonsdown, Blessington, Co. Wicklow.

Level: 231.00 m AOD

Scale
1:100

Client: Roadstone Dublin Ltd. (RDL)

Date: 25/02/2003

Logged By
PG

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	1				Silty gravelly CLAY (restored using overburden Boulder Clay) (BOULDER CLAY)
	2.00	229.00			Slightly silty fine to medium SAND (SANDS & GRAVELS)
	3				
	4				
	5				
	6				
	7				
	8				
	9				
	10				
	11				
	12.00	219.00			Silty sandy gravelly CLAY (BOULDER CLAY)
	13				
	14				
	15.00	216.00			
	16				Silty fine SAND (SANDS & GRAVELS)
	17.00	214.00			Slightly clayey silty sandy GRAVEL (SANDS & GRAVELS)
	18				
	19				

Copyright © 2003. For inspection purposes only. All rights reserved. No reproduction or use for any other purpose without the written permission of the copyright owner.

Continued next sheet

Remarks: 50mm PVC screw lock solid/slotted standpipe.
Backfilled using Silica sand and Bentonite grout (shown as solid black)

RISKBASE III (BU 207) Standard Borehole Log v1 dated 26th Mar 03



John Barnett and Associates Ltd.

Unit 7, Dundrum Business Park, Windy Arbour,
Dublin 14, Ireland.

Tel. + 353 1 2964667 Fax. + 353 1 2964676 www.csa.ie

Well No.

GW 1/4

Sheet 2 of 2

Project Name Dorans Pit - Hydro GI

Project No.
2901-04

Co-ords: 298009E - 216105N

Hole Type
ODEX

Location: Dillonsdown, Blessington, Co. Wicklow.

Level: 231.00 m AOD

Scale
1:100

Client: Roadstone Dublin Ltd. (RDL)

Date: 25/02/2003

Logged By
PG

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	21		GW 1/4		Slightly clayey silty sandy GRAVEL (SANDS & GRAVELS)
	22				
	23				
	24				
	25				
	26				
	27				
	28				
	29				
	30				
	30.50	200.50			End of Borehole at 30.50 m
	31				
	32				
	33				
	34				
	35				
	36				
	37				
	38				
	39				

Consultation for inspection purposes only.
Copyright owner required for any other use.

Remarks: 50mm PVC screw lock solid/slotted standpipe.
Backfilled using Silica sand and Bentonite grout (shown as solid black)

Well Log

Well No. BH 1 GW 4/1

Grid Reference

Project No. C001685

Client Roadstone Blessington

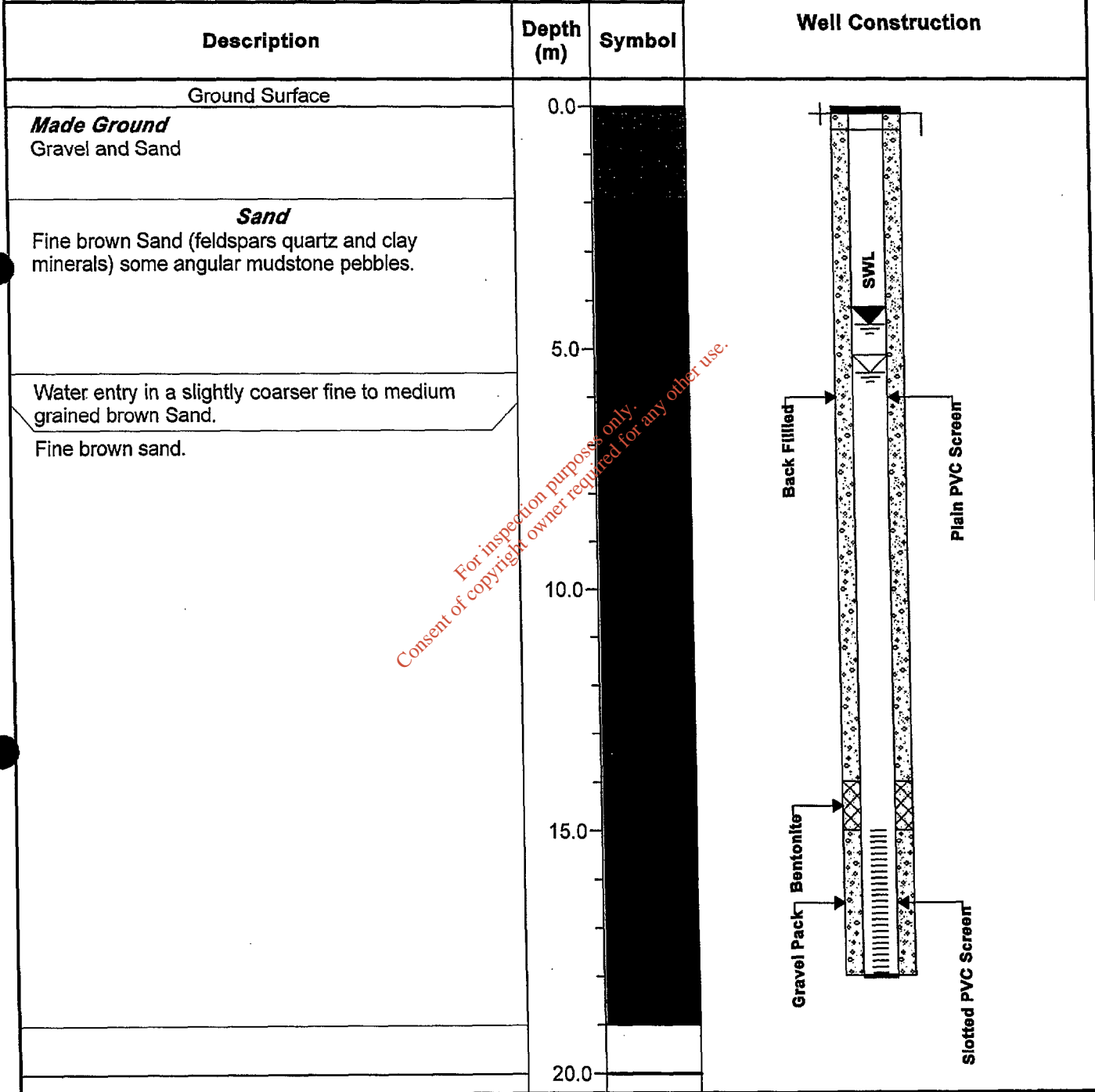
Drill Date 16th May 02

Well Type Monitoring Borehole

Location Blessington Co. Wicklow

Geologist Garrett Connell

SUBSURFACE PROFILE



For inspection purposes only.
Consent of copyright owner required for any other use.



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

Hole Size (mm) 200
TOC (mOD) 218.1
Static Water Level (bgl) 7.5m

Well Log

Well No. BH 2

GW 4/2

Grid Reference

Project No. C001685

Client Roadstone Blessington

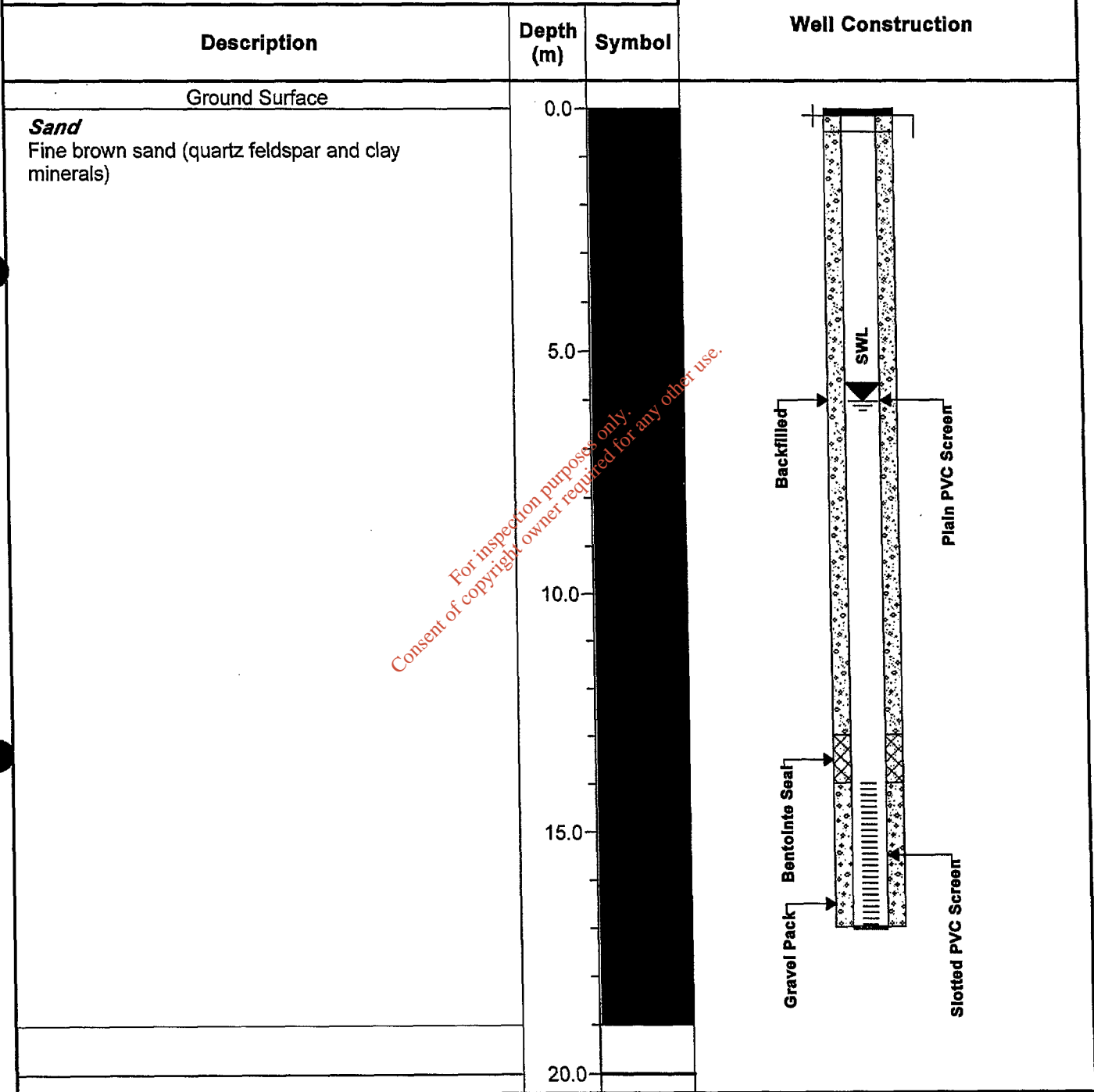
Drill Date 20th May 02

Well Type Monitoring Borehole

Location Blessington Co. Wicklow

Geologist Garrett Connell

SUBSURFACE PROFILE



For inspection purposes only.
Consent of copyright owner required for any other use.



Drill Method Odex

Casing Length (m) 19

Driller Colin Briody

Hole Size (mm) 200

TOC (mOD) 217.6

Static Water Level (bgl) 5.02



John Barnett and Associates Ltd.

Unit 7, Dundrum Business Park, Windy Arbour,
Dublin 14, Ireland.

Tel. + 353 1 2964667 Fax. + 353 1 2964676 www.csa.ie

Well No.

GW 4/3

Sheet 1 of 1

Project Name Dorans Pit - Hydro GI

Project No.
2901-04

Co-ords: 297407E - 215830N

Hole Type
ODEX

Location: Dillonsdown, Blessington, Co. Wicklow.

Level: 223.70 m AOD

Scale
1:100

Client: Roadstone Dublin Ltd. (RDL)

Date: 03/03/2003

Logged By
PG

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	1				Light brown SAND (MADE GROUND)
	2.00	221.70			Waste material (plastic and wood identified only), slight odour present. (MADE GROUND)
	4.00	219.70			Light brown SAND (MADE GROUND)
	6.00	217.70			Silty sandy gravelly CLAY (MADE GROUND)
	10.00	213.70			SAND & GRAVEL (SANDS & GRAVELS)
	14.00	209.70			Slightly silty fine SAND (SANDS & GRAVELS)
	16.00	207.70			Silty sandy gravelly CLAY (SANDS & GRAVELS)
	17.00	206.70			Light brown yellowy CLAY (weathered bedrock, mudstone) (Weathered Bedrock)
			GW 4/3		

Copyright for inspection purposes only. Copyright owner required for any other use.

End of Borehole at 20.00 m

Remarks: 50mm PVC screw lock solid/slotted standpipe.
Backfilled using Silica sand and Bentonite grout (shown as solid black).

HoleBASE III (B04 207) Standard Borehole Log V1 dated 20th Mar 03



John Barnett and Associates Ltd.

Unit 7, Dundrum Business Park, Windy Arbour,
Dublin 14, Ireland.

Tel. + 353 1 2964667 Fax. + 353 1 2964676 www.csa.ie

Well No.

GW 4/4

Sheet 1 of 1

Project Name Dorans Pit - Hydro GI

Project No.
2901-04

Co-ords: 297381E - 215927N

Hole Type
ODEX

Location: Dillonsdown, Blessington, Co. Wicklow.

Level: 226.20 m AOD

Scale
1:100

Client: Roadstone Dublin Ltd. (RDL)

Date: 04/03/2003

Logged By
PG

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	1				Light brown silty fine SAND (MADE GROUND)
	2				
	3				
	4				
	5				
	5.50	220.70			
	6				Silty gravelly CLAY (BOULDER CLAY)
	7				
	8				
	8.50	217.70			
	9				Slightly silty sandy GRAVEL (SANDS & GRAVELS)
	10	216.20			
	11				
	11.50	214.70			
	12		GW 4/4		Slightly silty sandy GRAVEL (SANDS & GRAVELS)
	12.50	213.70			Silty gravelly CLAY (SANDS & GRAVELS)
	13				
	14.00	212.20	GW 4/4		Light brown silty SAND (SANDS & GRAVELS)
	15				
	15.50	210.70			
	16				Light brown yellowy CLAY (weathered bedrock, mudstone) (Weathered Bedrock)
	17	209.20			
	18				End of Borehole at 17.00 m
	19				

Content of this report is for inspection purposes only. Copyright reserved. No part of this report may be reproduced or transmitted in any form or by any means electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the author.

Remarks: 50mm PVC screw lock solid/slotted standpipe.
Backfilled using Silica sand and Bentonite grout (shown as solid black)

RoadBASE III (Rev.20) Standard Borehole Log v1 dated 26th Apr 03

Project Name Dorans Pit - Hydro GI

Project No.
2901-04

Co-ords: 298091E - 215193N

Hole Type
ODEX

Location: Dillonsdown, Blessington, Co. Wicklow.

Level: 208.70 m AOD

Scale
1:100

Client: Roadstone Dublin Ltd. (RDL)

Date: 07/02/2003

Logged By
PG

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	1				Slightly silty sandy gravelly CLAY (Topsoil and boulderclay) (SANDS & GRAVELS)
	2.00	206.70			Slightly silty SAND & GRAVEL (SANDS & GRAVELS)
	3				
	4				
	5.00	203.70			Slightly silty sandy GRAVEL (SANDS & GRAVELS)
	6				
	7				
	8				
	9				
	9.50	199.20			Slightly silty SAND with occasional gravel (SANDS & GRAVELS)
	10				
	11				
	12				
	12.50	196.20			Slightly silty SAND (SANDS & GRAVELS)
	13				
	14.00	194.70			Slightly silty fine SAND (SANDS & GRAVELS)
	15				
	15.50	193.20			Slightly silty SAND with some gravel (SANDS & GRAVELS)
	16				
	17.00	191.70			Silty sandy GRAVEL (SANDS & GRAVELS)
	18				
	18.50	190.20			Silty sandy GRAVEL (SANDS & GRAVELS)
	19				

For inspection purposes only.
 Copyright © All rights reserved. No part of this document may be reproduced without the written permission of the copyright owner required for any other use.

GW 6/1

Groundwater level 07/02/2003

Continued next sheet

Remarks: 50mm PVC screw lock solid/slotted standpipe.
Backfilled using Silica sand and Bentonite grout (shown as solid black).
Niall Mitchell (Komex) present during drilling.

Project Name Dorans Pit - Hydro GI	Project No. 2901-04	Co-ords: 298091E - 215193N	Hole Type ODEX
Location: Dillonsdown, Blessington, Co. Wicklow.	Level: 208.70 m AOD		Scale 1:100
Client: Roadstone Dublin Ltd. (RDL)	Date: 07/02/2003		Logged By PG

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	21				Silty sandy GRAVEL (SANDS & GRAVELS)
	22				
	23.00	185.70			Slightly sandy clayey SILT (SANDS & GRAVELS)
	24				
	25				
	26				
	27.40	181.30	GW 6/1		Slightly silty sandy GRAVEL (SANDS & GRAVELS)
	28				
	29				
	29.50	179.20			Fine sand and SILT (SANDS & GRAVELS)
	30				
	30.50	178.20			
	31				End of Borehole at 30.50 m
	32				
	33				
	34				
	35				
	36				
	37				
	38				
	39				

Copyright © Inspection Processes only. All rights reserved. No part of this document may be reproduced for any other use.

Remarks: 50mm PVC screw lock solid/slotted standpipe.
Backfilled using Silica sand and Bentonite grout (shown as solid black).
Niall Mitchell (Komex) present during drilling.



John Barnett and Associates Ltd.

Unit 7, Dundrum Business Park, Windy Arbour,
Dublin 14, Ireland.
Tel. + 353 1 2964667 Fax. + 353 1 2964676 www.csa.ie

Well No.

GW 6/2

Sheet 1 of 2

Project Name Dorans Pit - Hydro GI

Project No.
2901-04

Co-ords: 298146E - 215141N

Hole Type
ODEX

Location: Dillonsdown, Blessington, Co. Wicklow.

Level: 208.90 m AOD

Scale
1:100

Client: Roadstone Dublin Ltd. (RDL)

Date: 06/02/2003

Logged By
PG

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	1				Slightly clayey silty sand & gravel topsoil (TOPSOIL)
	2.50	206.40			slightly silty sandy GRAVEL (SANDS & GRAVELS)
	4.00	204.90			Slightly silty gravelly SAND (SANDS & GRAVELS)
	7.00	201.90			Slightly sandy GRAVEL (SANDS & GRAVELS)
	8.00	200.90			Silty SAND with very occasional gravel (SANDS & GRAVELS)
	9.50	199.40			Fine to medium SAND with very occasional gravel (SANDS & GRAVELS)
	11.00	197.90			Slightly silty SAND (SANDS & GRAVELS)
	12.40 12.50	196.50 196.40			Slightly clayey sandy SILT (SANDS & GRAVELS)
					Slightly silty SAND & GRAVEL (SANDS & GRAVELS)
			GW 6/2		Groundwater (07/02/2003)
	18.50	190.40			Silty sandy GRAVEL (SANDS & GRAVELS)

Copyright © JBA. All rights reserved. For inspection purposes only. No reproduction or other use.

Continued next sheet

Remarks: 50mm PVC screw lock slotted/solid standpipe.
Backfilled using Silica sand and Bemtonite grout (shown as solid black).
Andrew Roberts (Komex) present on site.

HoleBASE III (888 287) Standard Borehole Log v1 dated 26th Mar 03



John Barnett and Associates Ltd.

Unit 7, Dundrum Business Park, Windy Arbour,
Dublin 14, Ireland.

Tel. + 353 1 2964667 Fax. + 353 1 2964676 www.csa.ie

Well No.

GW 6/2

Sheet 2 of 2

Project Name Dorans Pit - Hydro GI

Project No.
2901-04

Co-ords: 298146E - 215141N

Hole Type
ODEX

Location: Dillonsdown, Blessington, Co. Wicklow.

Level: 208.90 m AOD

Scale
1:100

Client: Roadstone Dublin Ltd. (RDL)

Date: 06/02/2003

Logged By
PG

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	21				Silty sandy GRAVEL (SANDS & GRAVELS)
	22				
	23				
	24				
	25				
	26	182.90			
	26.00				End of Borehole at 26.00 m
	27				
	28				
	29				
	30				
	31				
	32				
	33				
	34				
	35				
	36				
	37				
	38				
	39				

For inspection purposes only.
Consent of copyright owner required for any other use.

Remarks: 50mm PVC screw lock slotted/solid standpipe.
Backfilled using Silica sand and Bemtonite grout (shown as solid black).
Andrew Roberts (Komex) present on site.



John Barnett and Associates Ltd.

Unit 7, Dundrum Business Park, Windy Arbour,
Dublin 14, Ireland.

Tel. + 353 1 2964667 Fax. + 353 1 2964676 www.csa.ie

Well No.

GW 6/3

Sheet 1 of 2

Project Name Dorans Pit - Hydro GI

Project No.
2901-04

Co-ords: 298241E - 215224N

Hole Type
ODEX

Location: Dillonsdown, Blessington, Co. Wicklow.

Level: 214.20 m AOD

Scale
1:100

Client: Roadstone Dublin Ltd. (RDL)

Date: 05/02/2003

Logged By
PG

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	1				Dark brown slightly clayey SILT with some sand and occasional gravel (BOULDER CLAY)
	2.00	212.20			Slightly clayey silty sandy GRAVEL (SANDS & GRAVELS)
	4.00	210.20			Slightly silty sandy GRAVEL (SANDS & GRAVELS)
	9.00	205.20			Slightly calyey silty sandy GRAVEL (SANDS & GRAVELS)
	12.00	202.20			Slightly silty gravelly SAND (SANDS & GRAVELS)
	16.75	197.45			Slightly silty sandy GRAVEL (SANDS & GRAVELS)
	18.00	196.20			Slightly silty gravelly SAND (SANDS & GRAVELS)
	18.50	195.70			Slightly silty sandy GRAVEL (SANDS & GRAVELS)

Copyright © JBA Inspection purposes only. Original owner required for any other use.

Continued next sheet

Remarks: 50mm PVC screw lock solid/slotted standpipe.
Backfilled using Silica sand and Bentonite grout (shown as solid black).
No water strike during Odex drilling.



John Barnett and Associates Ltd.

Unit 7, Dundrum Business Park, Windy Arbour,
Dublin 14, Ireland.

Tel. + 353 1 2964667 Fax. + 353 1 2964676 www.csa.ie

Well No.

GW 6/3

Sheet 2 of 2

Project Name Dorans Pit - Hydro GI

Project No.
2901-04

Co-ords: 298241E - 215224N

Hole Type
ODEX

Location: Dillonsdown, Blessington, Co. Wicklow.

Level: 214.20 m AOD

Scale
1:100

Client: Roadstone Dublin Ltd. (RDL)

Date: 05/02/2003

Logged By
PG

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	21.50	192.70			Slightly silty sandy GRAVEL (SANDS & GRAVELS)
	24.50	189.70			Slightly silty sandy GRAVEL (SANDS & GRAVELS)
	27.50	186.70			Clayey sandy slightly gravely SILT (SANDS & GRAVELS)
	30.50	183.70			End of Borehole at 30.50 m

Copyright © JBA Inspection Services only. No reproduction or use for any other use.

Remarks: 50mm PVC screw lock solid/slotted standpipe.
Backfilled using Silica sand and Bentonite grout (shown as solid black).
No water strike during Odex drilling.

HBM&E III (BM 287) Standard Borehole Log Y1 dated 28th Mar 03

Well Log

Well No. BH 3

GW 6/4

Grid Reference

Project No. C001685

Client Roadstone Blessington

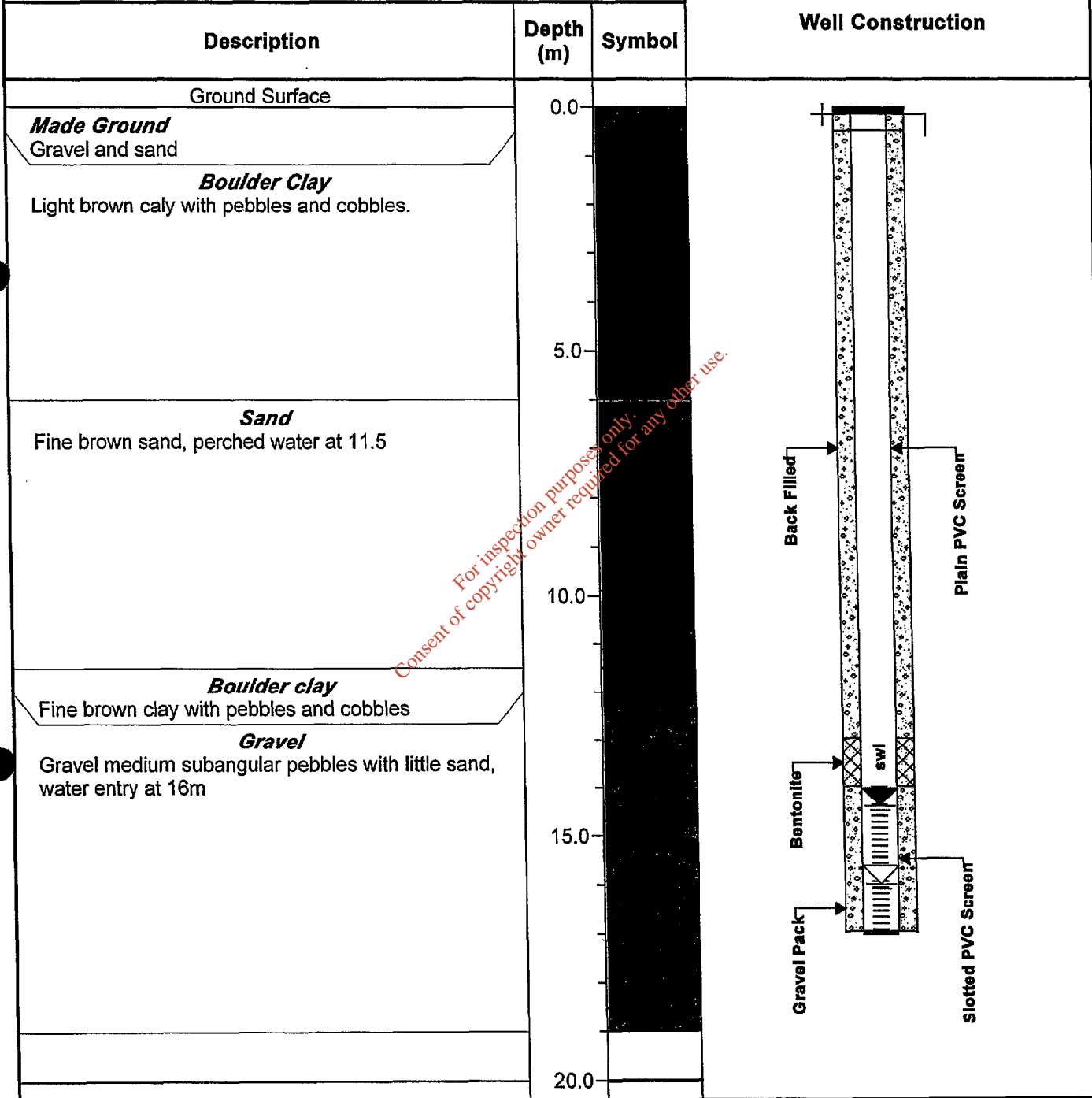
Drill Date 21st May 02

Well Type Monitoring Borehole

Location Blessington Co. Wicklow

Geologist Garrett Connell

SUBSURFACE PROFILE



For inspection purposes only. Consent of copyright owner required for any other use.



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

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



John Barnett and Associates Ltd.

Unit 7, Dundrum Business Park, Windy Arbour,
Dublin 14, Ireland.

Tel. + 353 1 2964667 Fax. + 353 1 2964676 www.csa.ie

Well No.

GW 6/5

Sheet 1 of 2

Project Name Dorans Pit - Hydro GI

Project No.
2901-04

Co-ords: 298169E - 215059N

Hole Type
ODEX

Location: Dillonsdown, Blessington, Co. Wicklow.

Level: 208.80 m AOD

Scale
1:100

Client: Roadstone Dublin Ltd. (RDL)

Date: 09/06/2003

Logged By
PG

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	1				Gravelly SILT/CLAY (BOULDER CLAY)
	2.00	206.80			Sandy GRAVEL (SANDS & GRAVELS)
	3.00	205.80			Silty sandy GRAVEL (SANDS & GRAVELS)
	4				
	5				
	6				
	7				
	8				
	9.00	199.80			Silty SAND (SANDS & GRAVELS)
	10				
	11				
	12				
	13				
	14				
	15				
	15.50	193.30			Sandy gravelly SILT/CLAY (SANDS & GRAVELS)
	16				
	17				
	18.00	190.80			Silty sandy GRAVEL (SANDS & GRAVELS)
	19				
	19.80	189.00			

For inspection purposes only.
Consent of copyright owner required for any other use.

Continued next sheet

Remarks: 50mm PVC screw lock solid/slotted standpipe.
Backfilled using silica sand and bentonite grout (shown as solid black)



John Barnett and Associates Ltd.

Unit 7, Dundrum Business Park, Windy Arbour,
Dublin 14, Ireland.

Tel. + 353 1 2964667 Fax. + 353 1 2964676 www.csa.ie

Well No.

GW 6/5

Sheet 2 of 2

Project Name Dorans Pit - Hydro GI

Project No.
2901-04

Co-ords: 298169E - 215059N

Hole Type
ODEX

Location: Dillonsdown, Blessington, Co. Wicklow.

Level: 208.80 m AOD

Scale
1:100

Client: Roadstone Dublin Ltd. (RDL)

Date: 09/06/2003

Logged By
PG

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	21.50	187.30			Sandy gravelly SILT/CLAY (GLACIAL TILL)
					End of Borehole at 21.50 m
	21				
	22				
	23				
	24				
	25				
	26				
	27				
	28				
	29				
	30				
	31				
	32				
	33				
	34				
	35				
	36				
	37				
	38				
	39				

For inspection purposes only.
Consent of copyright owner required for any other use.

Remarks: 50mm PVC screw lock solid/slotted standpipe.
Backfilled using silica sand and bentonite grout (shown as solid black)



John Barnett and Associates Ltd.

Unit 7, Dundrum Business Park, Windy Arbour,
Dublin 14, Ireland.
Tel. + 353 1 2964667 Fax. + 353 1 2964676 www.csa.ie

Well No.

BH 6/5A

Sheet 1 of 1

Project Name Dorans Pit - Hydro GI	Project No. 2901-04	Co-ords: 298167E - 215055N	Hole Type ODEX
Location: Dillonsdown, Blessington, Co. Wicklow.		Level: 208.80 m AOD	Scale 1:100
Client: Roadstone Dublin Ltd. (RDL)		Date: 09/06/2003	Logged By PG

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	1				
	2				
	2.50	206.30			Clayey cobbly GRAVEL (BOULDER CLAY)
	3				
	3.50	205.30			Silty SAND (SANDS & GRAVELS)
	4				Sandy GRAVEL (SANDS & GRAVELS)
	5				
	6				
	7				
	8				
	9				
	9.50	199.30			
	10.00	198.80			Silty SAND (SANDS & GRAVELS)
					End of Borehole at 10.00 m
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	18				
	19				

Consent of the client owner required for any other use.

Remarks: 50mm PVC screw lock slotted standpipe.
Backfilled using washed pea gravel (5mm).
Gas monitoring valve fitted to top of borehole.



John Barnett and Associates Ltd.

Unit 7, Dundrum Business Park, Windy Arbour,
Dublin 14, Ireland.
Tel. + 353 1 2964667 Fax. + 353 1 2964676 www.csa.ie

Well No.
GW 6/6
Sheet 1 of 2

Project Name Dorans Pit - Hydro GI	Project No. 2901-04	Co-ords: 298282E - 215184N	Hole Type ODEX
Location: Dillonsdown, Blessington, Co. Wicklow.	Level: 212.50 m AOD	Scale 1:100	Logged By PG
Client: Roadstone Dublin Ltd. (RDL)	Date: 06/06/2003		

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	1.00	211.50			TOPSOIL (MADE GROUND)
	2.00				Gravelly CLAY/SILT (BOULDER CLAY)
	3.00	209.50			Silty sandy GRAVEL (SANDS & GRAVELS)
	3.50	209.00			Clayey sandy GRAVEL (SANDS & GRAVELS)
	4.00				
	5.50	207.00			SILT (SANDS & GRAVELS)
	6.00	206.50			Clayey sandy GRAVEL (SANDS & GRAVELS)
	6.50	206.00			Sandy GRAVEL (SANDS & GRAVELS)
	8.00	204.50			SAND (SANDS & GRAVELS)
	9.00	203.50			Sandy GRAVEL (SANDS & GRAVELS)
	9.50	203.00			GRAVEL (SANDS & GRAVELS)
	10.50	202.00			SAND (SANDS & GRAVELS)
	12.00	200.50			Silty sandy GRAVEL (SANDS & GRAVELS)
	15.50	197.00			Silty SAND (SANDS & GRAVELS)

For inspection purposes only. Not for other use.
Consent of copyright owner required for other use.

Continued next sheet

Remarks: 50mm screw lock PVC slotted/plain standpipe.
Backfilled with silica sand and bentonite grout (shown in black)



John Barnett and Associates Ltd.

Unit 7, Dundrum Business Park, Windy Arbour,
Dublin 14, Ireland.

Tel. + 353 1 2964667 Fax. + 353 1 2964676 www.csa.ie

Well No.

GW 6/6

Sheet 2 of 2

Project Name Dorans Pit - Hydro GI

Project No.
2901-04

Co-ords: 298282E - 215184N

Hole Type
ODEX

Location: Dillonsdown, Blessington, Co. Wicklow.

Level: 212.50 m AOD

Scale
1:100

Client: Roadstone Dublin Ltd. (RDL)

Date: 06/06/2003

Logged By
PG

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	20.00	192.50			Silty sandy GRAVEL (SANDS & GRAVELS)
	21		▽		
	22				
	23.00	189.50			SILT/CLAY (SANDS & GRAVELS)
	24.00	188.50			Silty sandy GRAVEL (SANDS & GRAVELS)
	25				
	26				
	27				
	27.50	185.00			Sandy SILT (SANDS & GRAVELS)
	28				
	29				
	30				
	30.50	182.00			End of Borehole at 30.50 m
	31				
	32				
	33				
	34				
	35				
	36				
	37				
	38				
	39				

Consent of the Project owner required for any other use.

Remarks: 50mm screw lock PVC slotted/plain standpipe.
Backfilled with silica sand and bentonite grout (shown in black)



John Barnett and Associates Ltd.

Unit 7, Dundrum Business Park, Windy Arbour,
Dublin 14, Ireland.

Tel. + 353 1 2964667 Fax. + 353 1 2964676 www.csa.ie

Well No.

BH 6/6A

Sheet 1 of 1

Project Name Dorans Pit - Hydro GI	Project No. 2901-04	Co-ords: 298285E - 215181N	Hole Type ODEX
Location: Dillonsdown, Blessington, Co. Wicklow.	Level: 212.30 m AOD		Scale 1:100
Client: Roadstone Dublin Ltd. (RDL)	Date: 09/06/2003	Logged By PG	

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	1.00	211.30			TOPSOIL (MADE GROUND)
	3.00	209.30			Gravelly SILT/CLAY (GLACIAL TILL)
	6.50	205.80			TOPSOIL (SANDS & GRAVELS)
	9.00	203.30			SAND (SANDS & GRAVELS)
	10.00	202.30			GRAVEL (SANDS & GRAVELS)
					End of Borehole at 10.00 m
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	18				
	19				

For inspection purposes only. Consent of copyright owner required for any other use.

Remarks: 50mm PVC screw lock slotted standpipe.
Backfilled using washed pea gravel (5mm).
Gas monitoring valve fitted to top of standpipe.

Project Name Dorans Pit - Hydro GI	Project No. 2901-04	Co-ords: 298535E - 215461N	Hole Type ODEX
Location: Dillonsdown, Blessington, Co. Wicklow.		Level: 209.77 m AOD	Scale 1:100
Client: Roadstone Dublin Ltd. (RDL)		Date: 15/09/2003	Logged By PG

Peizo (m)	Depth (m)	Level (m OD)	Water Strike (m OD)	Litho	Stratum Description
	1.50	208.27		~ ~ ~	TOPSOIL (TOPSOIL)
	4.00	205.77		• • •	SAND and GRAVEL (SANDS & GRAVELS)
	5.80	203.97		• • •	Gravelly SAND (SANDS & GRAVELS)
	9.50	200.27		• • •	Gravelly SILT/CLAY (GLACIAL TILL)
	10.00	199.77		• • •	GRAVEL (SANDS & GRAVELS)
	13.00	196.77		• • •	Gravelly SILT/CLAY (GLACIAL TILL)
	19.50	190.27	▼	• • •	Sandy GRAVEL (SANDS & GRAVELS)

Copyright © 2003. All rights reserved. Inspection purposes only. Copyright owner required for any other use.

Continued next sheet

Remarks: 50mm screw lock solid/slotted standpipe.
Backfilled using 5mm washed gravel.

Well Log

COOKEHILL GW 1

Well No. PW 1

Project No. C002782

Client P.D. Lane Associates

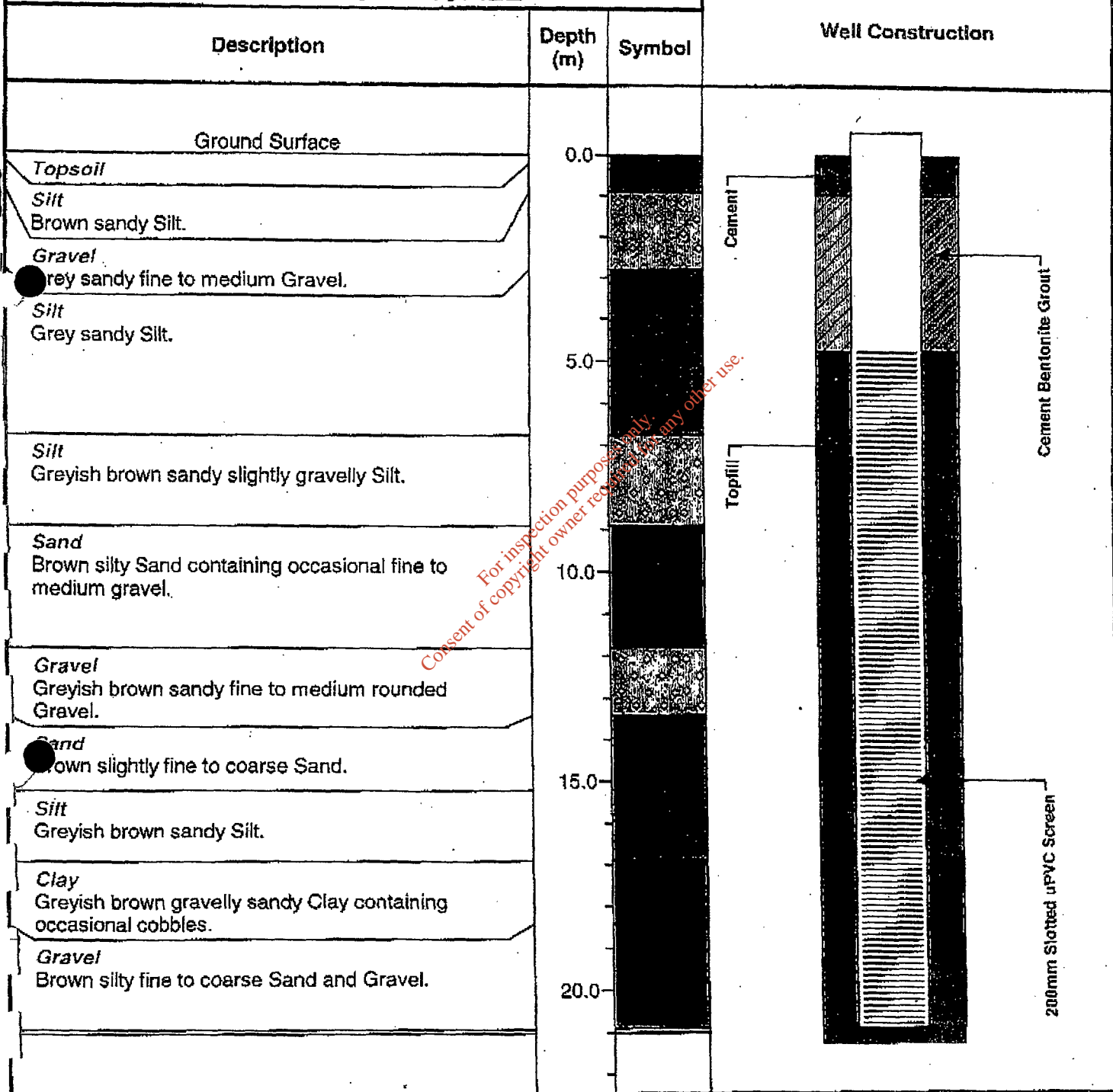
Drill Date 08/10/03

Well Type Production Well

Location Blessington

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

SUBSURFACE PROFILE



For inspection purposes only. Consent of copyright owner required for any other use.



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