

GROUND ENGINEERING

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Tel: 01733-566566
www.groundengineering.co.uk

Site: MARIA FIDELIS LOWER SCHOOL, LONDON NW1

WINDOW SAMPLE
WS3

Date: 23/10/18

Hole Size: 87mm dia to 2.00m
77mm dia to 3.00m
57mm dia to 5.45m

Ground Level: 25.30m. O.D.

Samples and in-situ Tests			(Date) Water	Description of Strata	Legend	Depth m	O.D. Level m
Depth m	Type	Result					
				MADE GROUND - ASPHALT.		0.15	25.15
				MADE GROUND - Dark grey SAND AND GRAVEL with occasional cobbles of brick. Gravel of flint, brick, asphalt and mortar fragments.		0.50	24.80
1.30-2.00	U1			MADE GROUND - Soft, brown, dark brown and dark grey mottled, slightly sandy, slightly gravelly, silty CLAY. Gravel of flint, brick, concrete, clinker and ash fragments.		1.50	23.80
2.00-3.00	U2			Firm, brown, orange brown and grey mottled, slightly gravelly, silty CLAY. Gravel of flint and limestone fragments, with iron staining on gravel. (HEAD DEPOSIT)		2.20	23.10
				Stiff, brown, orange brown, grey mottled silty CLAY with occasional orange brown sand partings. (HIGHLY WEATHERED LONDON CLAY)		2.50	22.80
3.00-4.00	U3			Stiff, closely fissured, brown CLAY with grey stained fissures and rare pyrite nodules.			
3.30	V1	(105)		(WEATHERED LONDON CLAY) ...with rare selenite crystals from 4.00m depth and a 50mm thick, weak, red brown argillaceous concretionary limestone at 4.40m depth.			
3.60	V2	(106)					
3.90	V3	(107)					
4.00-5.00	U4	(140+)					
4.10	V4	(140+)					
4.50	V5	(126)				4.80	20.50
4.90	V6	(140+)		Stiff, closely fissured, grey brown CLAY. (LONDON CLAY)			
5.00	D1						
5.15-5.45	S	N20				5.45	19.85
Hole completed at 5.45m depth							

REMARKS 1. Starter pit excavated from 0.00m to 1.30m depth

Project No
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Scale 1:50
Page 1/1

KEY

- D - Disturbed Sample
- B - Bulk Sample
- U - Undisturbed Sample
- W - Water Sample
- ∇ - Water Strike
- ∇c - Depth to Water on completion
- J - Jar Sample
- M - Mackintosh Probe
- V - Vane Shear Test
- Cohesion () kPa
- P () - Hand Penetrometer
- Cohesion () kPa
- ∇s - Standpipe Level

Groundwater Strikes

Groundwater Observations

Groundwater Strikes						Groundwater Observations			
Depth m						Depth m			
No Struck	Rose to	Rate	Cased	Sealed		Date	Hole	Casing	Water
						23/10/18	5.45		dry

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Site: MARIA FIDELIS LOWER SCHOOL, LONDON NW1

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SIA/PT
TP1

Date: 23/10/18

Pit Size: 0.80m L x 0.40m W x 1.30m D.
Hole Size: 70mm dia to 1.70m

Ground Level: 25.65m. O.D.

Samples and in-situ Tests			(Date)	Description of Strata	Legend	Depth m	O.D. Level m
Depth m	Type	Result	Water				
0.30 0.30	D1 ES1			MADE GROUND - ASPHALT.		0.10	25.55
				MADE GROUND - Brown and dark brown, silty SAND AND GRAVEL with occasional cobbles of brick. Gravel of flint, brick and asphalt fragments.		0.40	25.25
0.70 0.70	D2 ES2			MADE GROUND - Brown, clayey SAND AND GRAVEL with occasional cobble size voids. Gravel of brick, mortar and slate fragments.		1.70	23.95
1.00 1.00	D3 ES3						
1.60-1.70 1.60-1.70	D4 ES4			Pit abandoned at 1.70m depth			

KEY

- D - Disturbed Sample
- B - Bulk Sample
- U - Undisturbed Sample
- R - Root Sample
- W - Water Sample
- ES - Environmental Sample
- ∇ - Water Strike
- ∇ - Water Rise
- ∇c - Level on completion
- MP - Mackintosh Probe
- P() - Hand Penetrometer Cohesion () kPa
- V - Vane Shear Test Cohesion () kPa

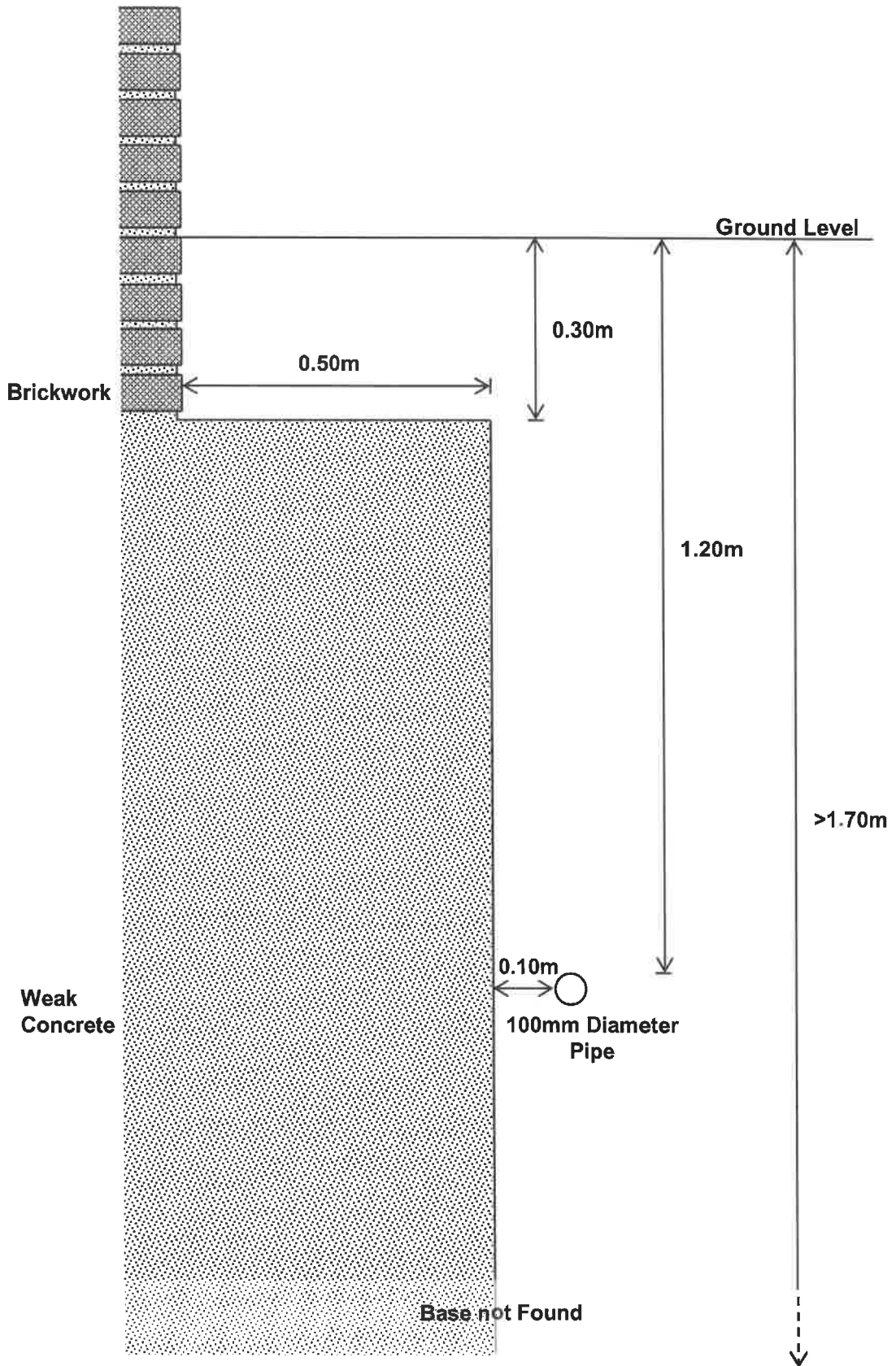
REMARKS

1. No live roots observed
2. Pit dry
3. Pit sides stable
4. 100mm diameter gas pipe at 1.20m depth
5. Pit extended from 1.30m to 1.70m depth using hand auger tools
6. Pit abandoned at 1.70m depth, unable to extend further with hand auger

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Scale Page
1:25 1/1

Trial Pit TP 1 Cross Section A-A



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London NW1
Client : Camden Council

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**Trial Pit TP 1
Photographs**

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Site: MARIA FIDELIS LOWER SCHOOL, LONDON NW1

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TRIAL PIT
TP2A

Date: 23/10/18

Pit Size: 0.60m L x 0.45m W x 0.20m D.

Ground Level: 25.65m. O.D.

Samples and in-situ Tests			(Date) Water	Description of Strata	Legend	Depth m	O.D. Level m
Depth m	Type	Result					
				MADE GROUND - ASPHALT.		0.05	25.60
				MADE GROUND - CONCRETE.		0.20	25.45
				Pit abandoned at 0.20m depth			

- KEY**
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 - W - Water Sample
 - ES - Environmental Sample
 - ☒ Water Strike
 - ☒ Water Rise
 - ☒c Level on completion
 - MP - Mackintosh Probe
 - P () - Hand Penetrometer
 - Cohesion () kPa
 - V - Vane Shear Test
 - Cohesion () kPa

REMARKS 1. Pit abandoned at 0.20m depth due to suspected service

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Site: MARIA FIDELIS LOWER SCHOOL, LONDON NW1

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FINAL PIT
TP2B

Date: 23/10/18

Pit Size: 0.60m L x 0.50m W x 1.80m D.
Hole Size: 70mm dia to 2.30m

Ground Level: 25.70m. O.D.

Samples and in-situ Tests			(Date) Water	Description of Strata	Legend	Depth m	O.D. Level m
Depth m	Type	Result					
				MADE GROUND - ASPHALT.		0.10	25.60
0.30 0.30	D1 ES1			MADE GROUND - Dark grey, silty SAND AND GRAVEL. Gravel of limestone, brick and asphalt fragments.		0.35	25.35
0.60 0.60	D2 ES2			MADE GROUND - Soft, brown, slightly sandy, slightly gravelly, silty CLAY with occasional cobbles of brick. Gravel of flint, quartzite, brick, asphalt and slate fragments.			
0.90 0.90	D3 ES3					1.00	24.70
1.20 1.20	D4 ES4			MADE GROUND - Firm, brown and orange brown mottled, slightly sandy, slightly gravelly, silty CLAY. Gravel of flint, limestone, brick and ash fragments.			
1.50 1.50	D5 ES5						
1.80 1.80	D6 ES6						
2.10-2.30	D7					2.30	23.40
				Pit abandoned at 2.30m depth			

KEY

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- B - Bulk Sample
- U - Undisturbed Sample
- R - Root Sample
- W - Water Sample
- ES - Environmental Sample
- ☒ - Water Strike
- ☒ - Water Rise
- ☒c - Level on completion
- MP - Mackintosh Probe
- P () - Hand Penetrometer Cohesion () kPa
- V - Vane Shear Test Cohesion () kPa

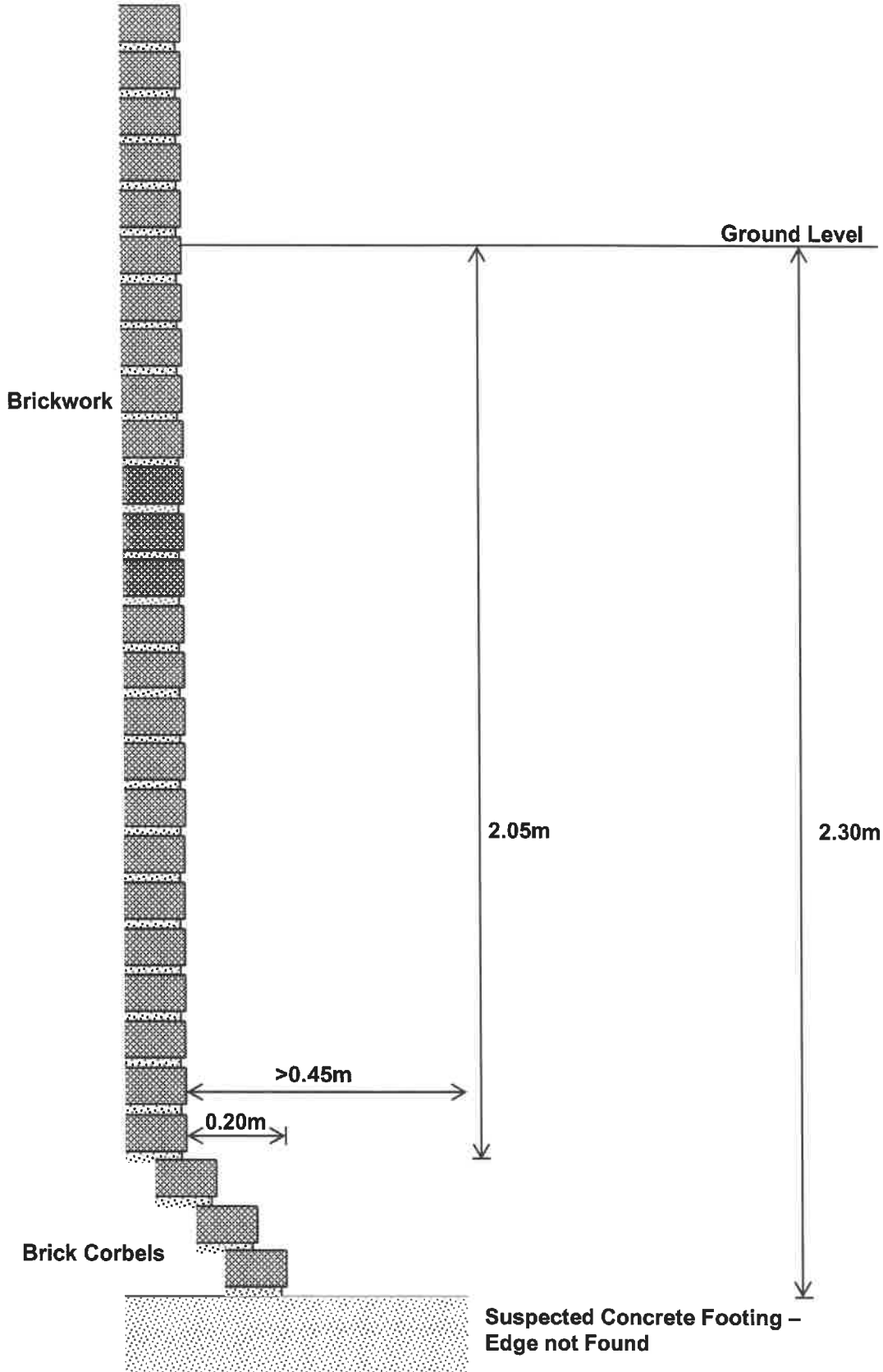
REMARKS

1. No live roots observed
2. Pit dry
3. Pit sides stable
4. Pit extended from 1.80m to 2.30m depth using hand auger tools
5. Pit abandoned at 2.30m depth upon suspected footing, unable to find edge due to pea gravel entering hand auger hole

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Scale Page
1:25 1/1

**Trial Pit TP 2B
Cross Section A-A**



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**Trial Pit TP 2B
Photographs**

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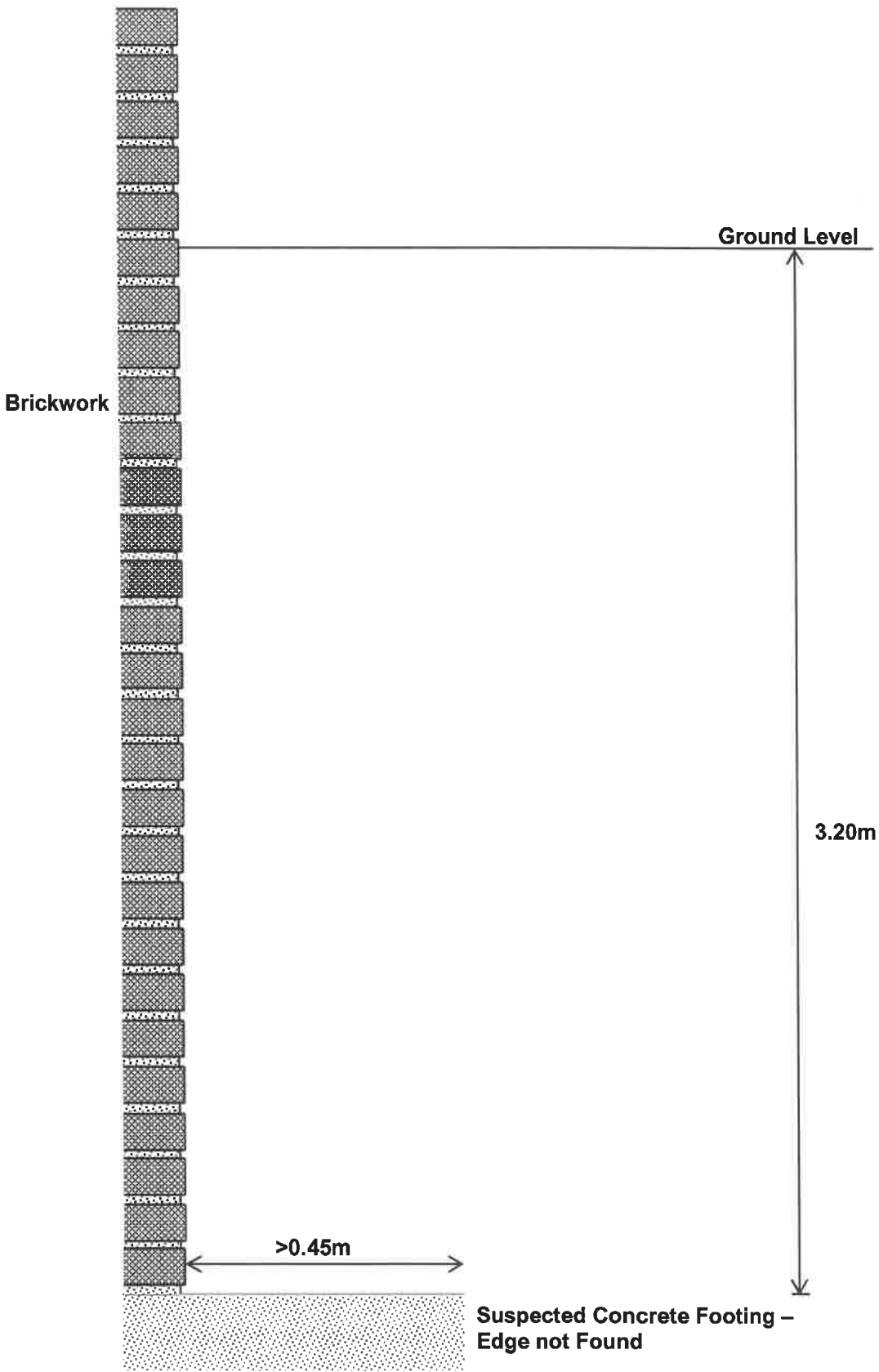
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GROUND ENGINEERING LIMITED Tel: 01733-566566 www.groundengineering.co.uk			Site: MARIA FIDELIS LOWER SCHOOL, LONDON NW1		TRIAL PIT TP3		
Date: 23/10/18			Pit Size: 0.60m L x 0.50m W x 1.50m D. Hole Size: 70mm dia to 3.20m		Ground Level: 25.65m. O.D.		
Samples and in-situ Tests			(Date)	Description of Strata	Legend	Depth m	O.D. Level m
Depth m	Type	Result	Water				
0.40 0.40	D1 ES1			MADE GROUND - ASPHALT.		0.10	25.55
0.70 0.70	D2 ES2			MADE GROUND - Dark brown and dark grey SAND AND GRAVEL. Gravel of asphalt and brick fragments.		0.50	25.15
1.00 1.00	D3 ES3			MADE GROUND - Brown and orange brown, clayey SAND AND GRAVEL with occasional cobbles of brick. Gravel of flint, brick and concrete fragments.		1.50	24.15
1.30 1.30	D4 ES4						
1.60 1.60	D5 ES5			MADE GROUND - Firm, brown and orange brown mottled, slightly sandy, slightly gravelly, silty CLAY. Gravel of flint, brick, slate and ash fragments.			
2.00-2.20	D6						
2.50-2.80	D7						
3.10-3.20	D8						
				Pit abandoned at 3.20m depth		3.20	22.45

- KEY**
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 - ∇ - Water Rise
 - ∇c - Level on completion
 - MP - Mackintosh Probe
 - P () - Hand Penetrometer
 - Cohesion () kPa
 - V - Vane Shear Test
 - Cohesion () kPa

- REMARKS**
1. No live roots observed
 2. Pit dry
 3. Pit sides stable
 4. Pit extended from 1.50m to 3.20m depth using hand auger tools
 5. Pit abandoned at 3.20m depth upon suspected footing

**Trial Pit TP 3
Cross Section A-A**



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**Trial Pit TP 3
Photographs**

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Site: MARIA FIDELIS LOWER SCHOOL, LONDON NW1

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FINAL PIT
TP4

Date: 23/10/18

Pit Size: 0.70m L x 0.45m W x 1.30m D.
Hole Size: 70mm dia to 1.50m

Ground Level: 25.15m. O.D.

Samples and in-situ Tests			(Date) Water	Description of Strata	Legend	Depth m	O.D. Level m
Depth m	Type	Result					
0.40 0.40	D1 ES1			MADE GROUND - ASPHALT.		0.15	25.00
0.70 0.70	D2 ES2			MADE GROUND - Brown, silty SAND AND GRAVEL with occasional cobbles of brick. Gravel of flint, limestone, brick, concrete, asphalt and clinker fragments.		0.50	24.65
0.90 0.90	D3 ES3			MADE GROUND - Soft, brown and dark grey mottled, slightly sandy, slightly gravelly, silty CLAY with occasional cobbles of brick and occasional oyster shell fragments. Gravel of brick, asphalt, mortar and ash fragments.		1.15	24.00
1.10 1.10 1.10 1.20	D4 ES4 V1 V2	(93) (91)		MADE GROUND - Stiff, brown, orange brown and dark grey mottled, slightly sandy, slightly gravelly, silty CLAY. Gravel of flint, calcareous concretions, brick, mortar and ash fragments.		1.50	23.65
1.30 1.50	D5 D6	(95)		Pit completed at 1.50m depth			

KEY

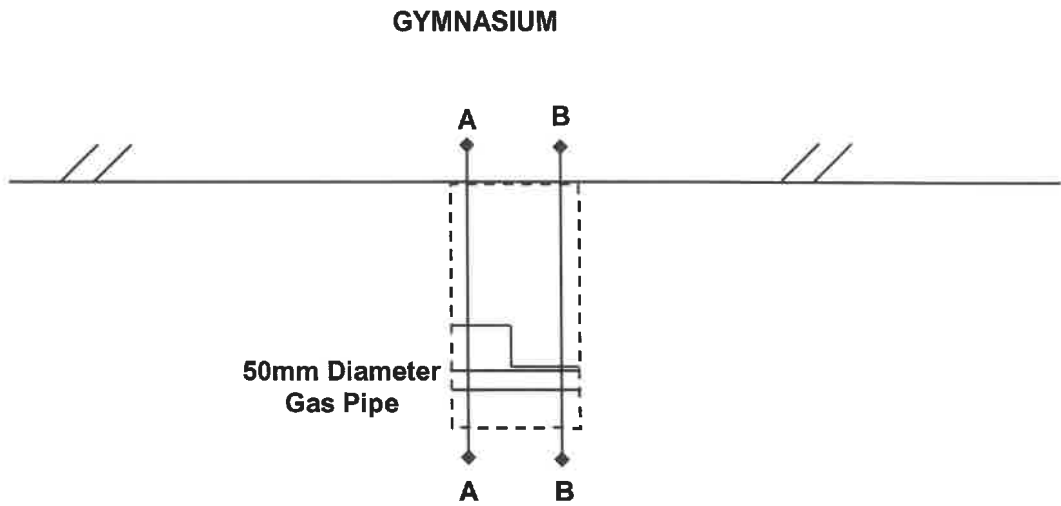
- D - Disturbed Sample
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- R - Root Sample
- W - Water Sample
- ES - Environmental Sample
- ∇ - Water Strike
- ∇ - Water Rise
- ∇c - Level on completion
- MP - Mackintosh Probe
- P () - Hand Penetrometer Cohesion () kPa
- V - Vane Shear Test Cohesion () kPa

REMARKS

1. No live roots observed
2. Pit dry
3. Pit sides stable
4. Hole extended from 1.30m to 1.50m depth with hand auger tools

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Scale | Page
1:25 | 1/1



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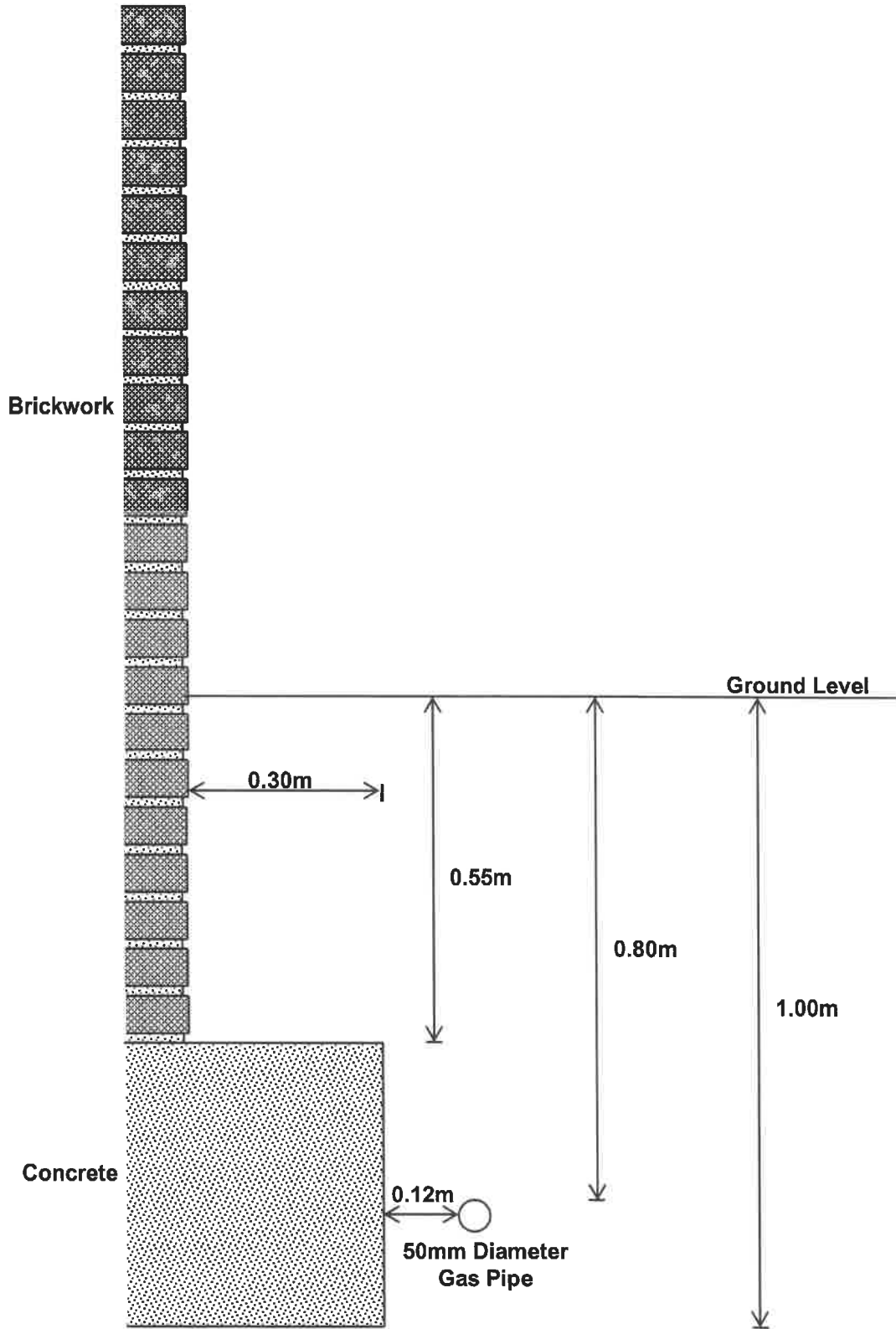
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Trial Pit TP 4 Cross Section A-A



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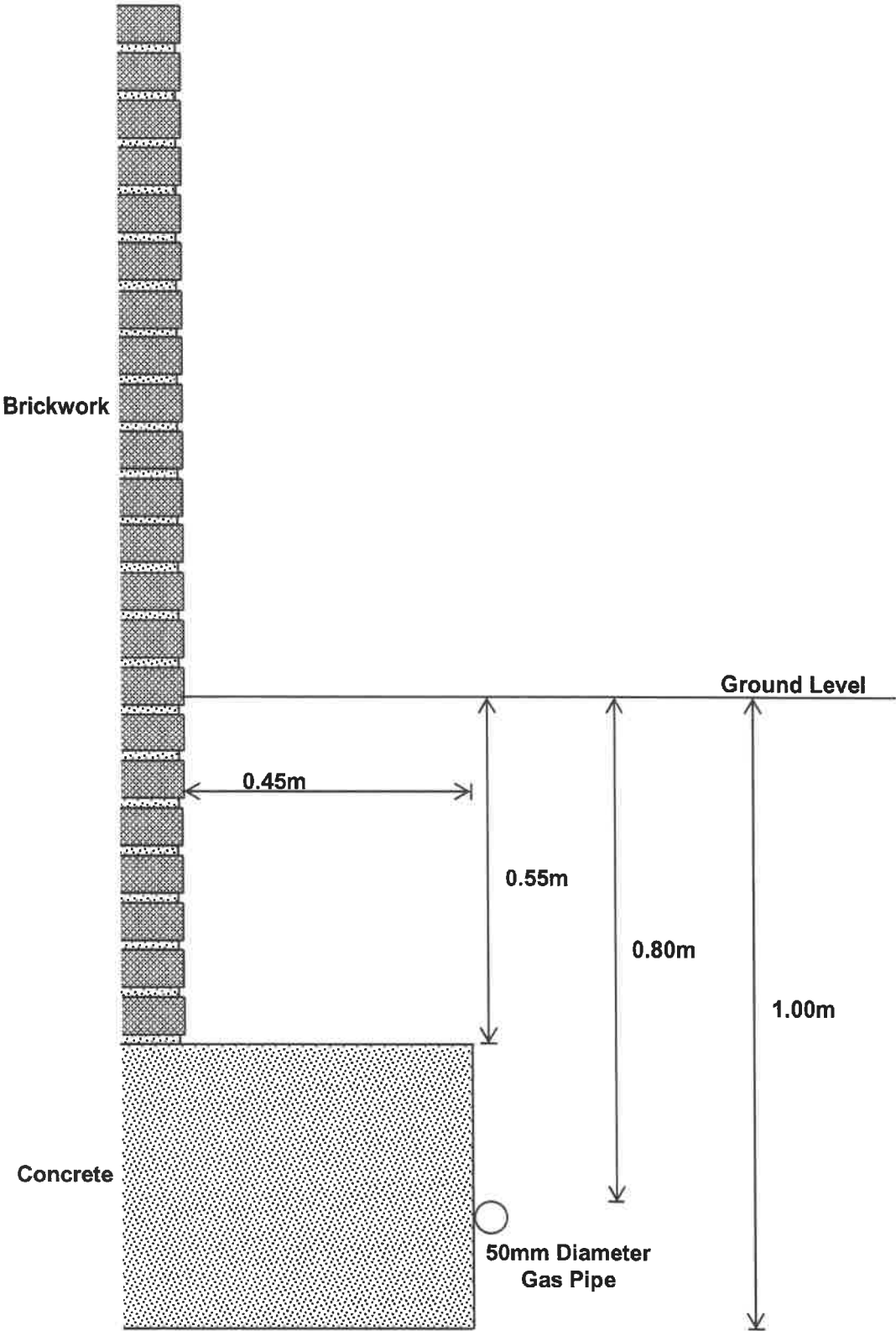
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**Trial Pit TP 4
Cross Section B-B**



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**Trial Pit TP 4
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Site: MARIA FIDELIS LOWER SCHOOL, LONDON NW1

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HEAD PIT
TP5

Date: 23/10/18

Pit Size: 0.70m L x 0.45m W x 1.50m D.
Hole Size: 70mm dia to 1.80m

Ground Level: 25.30m. O.D.

Samples and in-situ Tests			(Date) Water	Description of Strata	Legend	Depth m	O.D. Level m
Depth m	Type	Result					
0.20 0.20	D1 ES1			MADE GROUND - ASPHALT.		0.15	25.15
0.50 0.50	D2 ES2			MADE GROUND - Dark grey SAND AND GRAVEL with occasional cobbles of brick. Gravel of flint, brick, asphalt and mortar fragments.		0.30	25.00
0.70 0.80 0.80	V1 D3 ES3	(45)		MADE GROUND - Firm, brown, orange brown, grey mottled, slightly gravelly, silty CLAY. Gravel of brick, pottery, vitrified pipe, clinker and ash fragments.			
1.10 1.10	D4 ES4						
1.40 1.40	D5 ES5						
1.60	V2	(130+)				1.60	23.70
1.70 1.70	D6 V3	(130+)		Stiff, brown and orange brown mottled, slightly gravelly CLAY. Gravel of sub-angular to rounded flint. (HEAD DEPOSIT)		1.80	23.50
Pit completed at 1.80m depth							

KEY

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- B - Bulk Sample
- U - Undisturbed Sample
- R - Root Sample
- W - Water Sample
- ES - Environmental Sample
- ☒ Water Strike
- ☒ Water Rise
- ☒c Level on completion
- MP - Mackintosh Probe
- P () - Hand Penetrometer
- V - Vane Shear Test
- Cohesion () kPa

REMARKS

1. No live roots observed
2. Pit dry
3. Pit sides stable
4. Pit extended from 1.50m to 1.80m depth with hand auger tools

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Scale Page
1:25 1/1