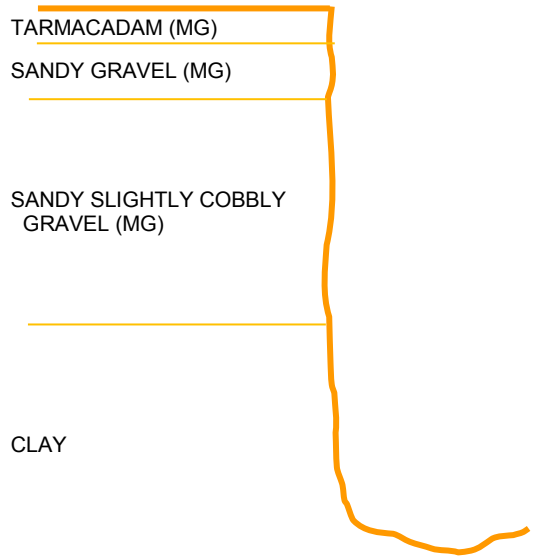
EARTH ENVIRONMENTAL & GEOTECHNICAL
Houldsworth Mill Business & Arts Centre, Houldsworth Street, Stockport, SK5 6DA
Tel: 0161 975 6088
Email: info@earthenvironmental.co.uk
Web: www.earthenvironmental.co.uk

TRIAL PIT LOG

Site:	Bradstone Road, Manchester	**Number:**	TP101
Date:	5th December 2017	**Engineer:**	T Benson
Job No.:	A2333/18	**Total Depth:**	2.30m
		Remarks:	Pit aligned W-E

Schematic Profile:



Log

GL – 0.05m Tarmacadam (MADE GROUND).

0.05-0.15m Light grey sandy GRAVEL. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse limestone (MADE GROUND).

0.15-1.30m Dark brown and orange sandy slightly cobbly GRAVEL with frequent whole and half red bricks, brick fragments, rare concrete ash and clinker. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse. Faint hydrocarbon odour (MADE GROUND).

Ash and clinker content increases with depth, strata becoming black.

1.30-2.30m Dark brown grey mottled CLAY with trace gravel. Gravel is sub-rounded fine sandstone.

Trial pit stable.
No groundwater encountered.
Environmental and geotechnical samples taken between 0.20-0.50m and 1.50-2.00m.

Pictures:

TP101: Excavation spoil

TP101: Internal view of excavation.

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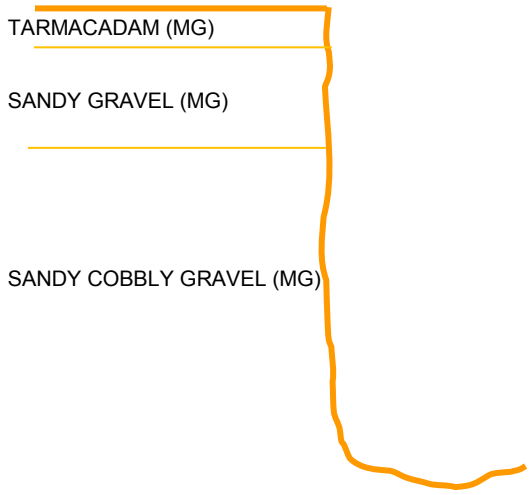
TRIAL PIT LOG

Site:	Bradstone Road, Manchester	**Number:**	TP102
Date:	5th December 2017	**Engineer:**	T Benson
Job No.:	A2333/18	**Total Depth:**	1.30m
		Remarks:	Pit aligned W-E

Schematic Profile:



Log

GL – 0.05m Tarmacadam (MADE GROUND).

0.05-0.80m Light grey to cream sandy GRAVEL. Sand is medium to coarse. Gravel is angular to sub-rounded fine to coarse limestone (MADE GROUND).

0.80-1.30m Black and orange sandy cobbly GRAVEL with frequent whole and half red bricks, brick fragments, ash, clinker, slag and rare suspected asbestos containing cement. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse (MADE GROUND).

Trial pit stable.
No groundwater encountered.
Environmental samples taken between 0.30-0.50m and 0.80-1.20m.

Pictures:

TP102: Excavation spoil

TP102: Internal view of excavation.

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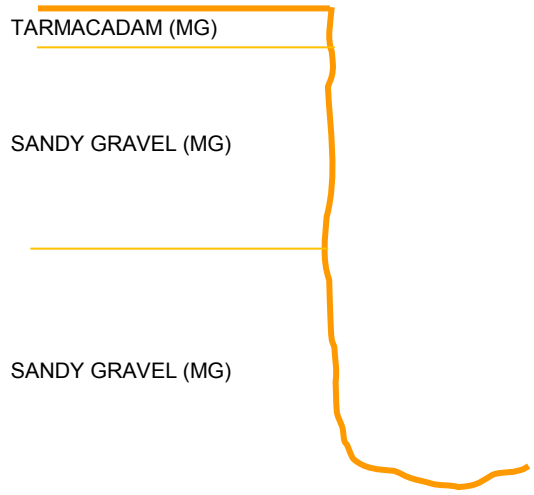
TRIAL PIT LOG

Site:	Bradstone Road, Manchester	**Number:**	TP103
Date:	5th December 2017	**Engineer:**	T Benson
Job No.:	A2333/18	**Total Depth:**	1.30m
		Remarks:	Pit aligned N-S

Schematic Profile:



Log

GL – 0.08m Tarmacadam (MADE GROUND).

0.08-0.60m Light grey sandy GRAVEL with occasional brick fragments and rare sandstone boulders. Sand is medium to coarse. Gravel is angular to sub-rounded fine to coarse limestone (MADE GROUND).

0.60-1.30m Very dense black sandy gravel comprising ash and clinker with occasional slag. Faint hydrocarbon odour (MADE GROUND).

Trial pit stable.
No groundwater encountered.
Environmental samples taken between 0.60-0.90m.

Pictures:

TP103: Excavation spoil

TP103: Internal view of excavation.

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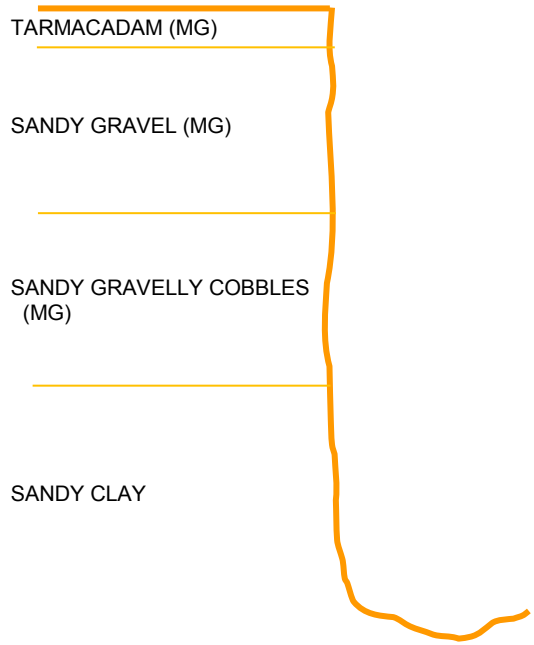
TRIAL PIT LOG

Site:	Bradstone Road, Manchester	**Number:**	TP104
Date:	5th December 2017	**Engineer:**	T Benson
Job No.:	A2333/18	**Total Depth:**	2.00m
		Remarks:	Pit aligned N-S

Schematic Profile:



Log

GL – 0.05m Tarmacadam (MADE GROUND).

0.08-0.60m Light grey sandy GRAVEL with occasional brick cobbles. Sand is medium to coarse. Gravel is angular to sub-rounded fine to coarse limestone (MADE GROUND).

0.60-1.20m Orange and dark brown sandy gravelly COBBLES with frequent whole and half red bricks, brick fragments, occasional ash, concrete and sandstone cobbles. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse (MADE GROUND).

1.20-2.00m Bright red to brown sandy CLAY with trace gravel. Sand is fine to medium. Gravel is sub-rounded to rounded fine to medium sandstone.

Strata becoming brown with depth.

Trial pit stable.
No groundwater encountered.
Environmental and geotechnical samples taken between 0.30-0.60m and 1.20-1.50m.

Pictures:

TP104: Excavation spoil

TP104: Internal view of excavation.

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PROBEHOLE LOG

Probehole No. WS101

Project Name: Bradstone Road | **Project No.** A2333 | **Date:** 05/12/2017 | **Scale:** 1:30

Location: Manchester | **Coordinates:** X:384084, Y:400073 | **Logged By:** TB | **Hole Type:** WS

Client: BDI Structural Solutions | **Level:** GL | **Approved By:** AKC

Well	Water Strikes	Sample Depth (m)	Sample Type	Test Results	Hand Penetrometer Cu (kN/m²)	Depth (m)	Legend	Stratum Description
Plain Install / Slotted Install	1.70m	0.15-0.30	ENV	PID=0.1ppm		0.08 0.15		Tarmacadam (MADE GROUND). Light grey sandy GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse limestone (MADE GROUND).
				SPT 1.20-1.65m 3/2/2/4/1/2 N=9				Loose dark brown and orange sandy slightly cobbly GRAVEL with frequent whole and half red brick, brick fragments, rare concrete, ash and clinker. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse (MADE GROUND). Strata becomes clayey and wet from 1.7m.
				SPT 2.00-2.45m 2/2/2/3/3/5 N=13		1.90		Firm reddish brown sandy SILT. Sand is fine to medium.
		2.50-3.00	GEO					
				SPT 3.00-3.45m 4/5/6/5/5/6 N=22				...Becoming stiff.
				SPT 4.00-4.45m 2/3/2/3/4/5 N=14		3.70		Firm dark greyish brown CLAY with trace gravel. Gravel is subrounded to rounded fine sandstone.
						4.50		EOH.

Remarks

1. Borehole location scanned with CAT prior to excavation.
2. Hand dug pit to 1.2m.
3. Borehole installed with a monitoring well upon completion: 1m plain, 3.50m slotted.

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PROBEHOLE LOG

Probehole No. WS102

Project Name: Bradstone Road | **Project No.** A2333 | **Date:** 05/12/2017 | **Scale:** 1:5

Location: Manchester | **Coordinates:** X:384062, Y:400047 | **Logged By:** TB | **Hole Type:** WS

Client: BDI Structural Solutions | **Level:** GL | **Approved By:** AKC

Well	Water Strikes	Sample Depth (m)	Sample Type	Test Results	Hand Penetrometer Cu (kN/m²)	Depth (m)	Legend	Stratum Description
								Tarmacadam (MADE GROUND).
						0.05		Light grey sandy GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse limestone. (MADE GROUND).
		0.20-0.40	ENV	PID=1.7ppm		0.15		Dark brown and orange sandy slightly cobbly GRAVEL with frequent whole red brick, brick fragments, rare concrete and sandstone fragments and ash. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse (MADE GROUND).
						0.80		Very dense black sandy GRAVEL comprising ash and clinker with occasional slag. Sand is medium to coarse. Gravel is fine to medium subrounded slag and clinker (MADE GROUND).
						1.00		EOH at 1.00m due to refusal. [1]

Remarks

1. Borehole location scanned with CAT prior to excavation.
2. Hand dug pit to 1.2m.
3. Borehole infilled with bentonite upon completion.

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PROBEHOLE LOG

Probehole No. WS103

Project Name: Bradstone Road
Location: Manchester
Client: BDI Structural Solutions

Project No. A2333
Coordinates: X:384018, Y:400073
Level: GL

Date: 05/12/2017
Logged By: TB
Approved By: AKC

Scale: 1:5
Hole Type: WS

Well	Water Strikes	Sample Depth (m)	Sample Type	Test Results	Hand Penetrometer Cu (kN/m²)	Depth (m)	Legend	Stratum Description
						0.70		Concrete (MADE GROUND).
								EOH at 0.70m due to metal rebar obstruction.

Remarks
1. Borehole location scanned with CAT prior to excavation.
2. Location cored to 0.70m.
3. Borehole infilled and capped with concrete upon completion.

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PROBEHOLE LOG

Probehole No. WS104

Project Name: Bradstone Road | **Project No.** A2333 | **Date:** 05/12/2017 | **Scale:** 1:30

Location: Manchester | **Coordinates:** X383999, Y:400061 | **Logged By:** TB | **Hole Type:** WS

Client: BDI Structural Solutions | **Level:** GL | **Approved By:** AKC

Well	Water Strikes	Sample Depth (m)	Sample Type	Test Results	Hand Penetrometer Cu (kN/m²)	Depth (m)	Legend	Stratum Description
Plain Install / Slotted Install		0.30-0.60	ENV			0.05 0.10		Tarmacadam (MADE GROUND).
								Light grey sandy GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse limestone (MADE GROUND).
		1.00-1.30	ENV	SPT 1.20-1.65m 3/2/2/4/4/4 N=14		1.00		Dark brown and orange sandy gravelly cobbles with frequent whole and half red brick, brick fragments, occasional sandstone cobbles and boulders, rare concrete, ash, clinker and metal. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse (MADE GROUND).
		1.50-2.00	GEO					
				SPT 2.00-2.45m 3/3/3/5/5/7 N=20				Stiff brown CLAY with trace gravel. Gravel is subrounded to rounded fine sandstone.
	4.80m			SPT 4.00-4.45m 3/3/4/5/6/6 N=21		4.00		Soft to stiff light brown slightly sandy slightly clayey SILT. Sand is fine to medium.
				SPT 5.00-5.45m 4/5/4/4/4/4 N=16				...Strata is wet from 4.8m.
						5.45		EOH.

1 2 3 4 5 6

Remarks

1. Borehole location scanned with CAT prior to excavation.
2. Hand dug pit to 1.2m.
3. Borehole installed with a monitoring well upon completion: 1m plain, 4.45m slotted.

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Borehole Log

Borehole No.
WS201
Sheet 1 of 1

Project Name:	Bradstone Road, Cheetham Hill	Project No. A2333	Co-ords: 384009.00 - 400066.00
Location:	Cheetham Hill, Manchester		Level:
Client:	White Box Architecture		Dates: 15/12/2023 - 15/12/2023

Hole Type: WS
Scale: 1:20
Logged By: BG

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50			0.20			MADE GROUND: Dark grey slightly sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse subangular redbrick, concrete, glass and sandstone. Contains occasional redbrick cobbles.
					0.55			MADE GROUND: Brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular redbrick and concrete.
					1.50			Stiff brown slighty sandy CLAY. Sand is fine to coarse.
								End of borehole at 1.50 m

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Remarks
1. Location scanned with CAT prior to excavation.
2. No monitoring install; backfilled with arisings.

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Borehole Log

Borehole No.
WS202
Sheet 1 of 1

Project Name:	Bradstone Road, Cheetham Hill	Project No. A2333	Co-ords: 384022.00 - 400058.00
Location:	Cheetham Hill, Manchester		Level:
Client:	White Box Architecture		Dates: 15/12/2023 - 15/12/2023

Hole Type: WS
Scale: 1:20
Logged By: BG

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.10			MADE GROUND: Dark grey slightly sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse subangular redbrick, concrete, glass and sandstone. Contains occasional redbrick cobbles.
		0.80			1.00			MADE GROUND: Brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular redbrick and concrete.
					1.50			Stiff brown slighty sandy CLAY. Sand is fine to coarse.
								End of borehole at 1.50 m

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Remarks
1. Location scanned with CAT prior to excavation.
2. No monitoring install; backfilled with arisings.

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Borehole Log

Borehole No.
WS203
Sheet 1 of 1

Project Name:	Bradstone Road, Cheetham Hill	Project No. A2333	Co-ords: 384033.00 - 400075.00
Location:	Cheetham Hill, Manchester		Level:
Client:	White Box Architecture		Dates: 15/12/2023 - 15/12/2023

Hole Type: WS
Scale: 1:20
Logged By: BG

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.05			MADE GROUND: Dark grey slightly sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse subangular redbrick, concrete, glass and sandstone. Contains occasional redbrick cobbles.
		0.45						MADE GROUND: Brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular redbrick and concrete.
					1.10			Stiff brown slighty sandy CLAY. Sand is fine to coarse.
					1.50			End of borehole at 1.50 m

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Remarks
1. Location scanned with CAT prior to excavation.
2. No monitoring install; backfilled with arisings.

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Borehole Log

Borehole No.
WS204
Sheet 1 of 1

Project Name:	Bradstone Road, Cheetham Hill	Project No. A2333	Co-ords: 384020.00 - 400086.00
Location:	Cheetham Hill, Manchester		Level:
Client:	White Box Architecture		Dates: 15/12/2023 - 15/12/2023

Hole Type: WS
Scale: 1:20
Logged By: BG

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10			0.15			MADE GROUND: Dark grey slightly sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse subangular redbrick, concrete, glass and sandstone. Contains occasional redbrick cobbles.
								MADE GROUND: Brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular redbrick and concrete.
								Redbrick cooble from 0.60m to 0.70m.
					1.00			Stiff brown slighty sandy CLAY. Sand is fine to coarse.
					1.50			End of borehole at 1.50 m

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Remarks
1. Location scanned with CAT prior to excavation.
2. No monitoring install; backfilled with arisings.

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Borehole Log

Borehole No.
WS205
Sheet 1 of 1

Project Name:	Bradstone Road, Cheetham Hill	Project No. A2333	Co-ords: 384036.00 - 400086.00
Location:	Cheetham Hill, Manchester		Level:
Client:	White Box Architecture		Dates: 15/12/2023 - 15/12/2023

Hole Type: WS
Scale: 1:20
Logged By: BG

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.05			MADE GROUND: Dark grey slightly sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse subangular redbrick, concrete, glass and sandstone. Contains occasional redbrick cobbles.
		0.60						MADE GROUND: Brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular redbrick and concrete.
					0.70			Stiff brown slighty sandy CLAY. Sand is fine to coarse.
					1.50			End of borehole at 1.50 m

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Remarks
1. Location scanned with CAT prior to excavation.
2. No monitoring install; backfilled with arisings.

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Borehole Log

Borehole No.
WS206
Sheet 1 of 1

Project Name:	Bradstone Road, Cheetham Hill	Project No. A2333	Co-ords: 384051.00 - 400075.00
Location:	Cheetham Hill, Manchester		Level:
Client:	White Box Architecture		Dates: 15/12/2023 - 15/12/2023

Hole Type: WS
Scale: 1:20
Logged By: BG

Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.05			MADE GROUND: Dark grey slightly sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse subangular redbrick, concrete, glass and sandstone. Contains occasional redbrick cobbles.
		0.30						MADE GROUND: Brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular redbrick and concrete.
					1.00			Stiff brown slighty sandy CLAY. Sand is fine to coarse.
					1.50			End of borehole at 1.50 m

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Remarks
1. Location scanned with CAT prior to excavation.
2. No monitoring install; backfilled with arisings.

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Borehole Log

Borehole No.
WS207
Sheet 1 of 1

Project Name:	Bradstone Road, Cheetham Hill	Project No. A2333	Co-ords: 384044.00 - 400061.00
Location:	Cheetham Hill, Manchester		Level:
Client:	White Box Architecture		Dates: 15/12/2023 - 15/12/2023

Hole Type: WS
Scale: 1:20
Logged By: BG

Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.05			MADE GROUND: Dark grey slightly sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse subangular redbrick, concrete, glass and sandstone. Contains occasional redbrick cobbles.
		0.75						MADE GROUND: Brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular redbrick and concrete.
					1.00			*Hole abandonded at 1.00m due to rig weight bouncing on Made Ground.*
								End of borehole at 1.00 m

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Remarks
1. Location scanned with CAT prior to excavation.
2. No monitoring install; backfilled with arisings.

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Borehole Log

Borehole No.
WS208
Sheet 1 of 1

Project Name:	Bradstone Road, Cheetham Hill	Project No. A2333	Co-ords: 384073.00 - 400077.00
Location:	Cheetham Hill, Manchester		Level:
Client:	White Box Architecture		Dates: 15/12/2023 - 15/12/2023

Hole Type: WS
Scale: 1:20
Logged By: BG

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.55			0.10			MADE GROUND: Dark grey slightly sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse subangular redbrick, concrete, glass and sandstone. Contains occasional redbrick cobbles.
					0.90			MADE GROUND: Brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular redbrick and concrete.
					1.50			Stiff brown slighty sandy CLAY. Sand is fine to coarse.
								End of borehole at 1.50 m

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Remarks
1. Location scanned with CAT prior to excavation.
2. No monitoring install; backfilled with arisings.

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