

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

TARMACADAM (MG)

SANDY GRAVEL (MG)

SANDY SLIGHTLY COBBLY
GRAVEL (MG)

CLAY

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:

TARMACADAM (MG)

SANDY GRAVEL (MG)

SANDY COBBLY GRAVEL (MG)

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

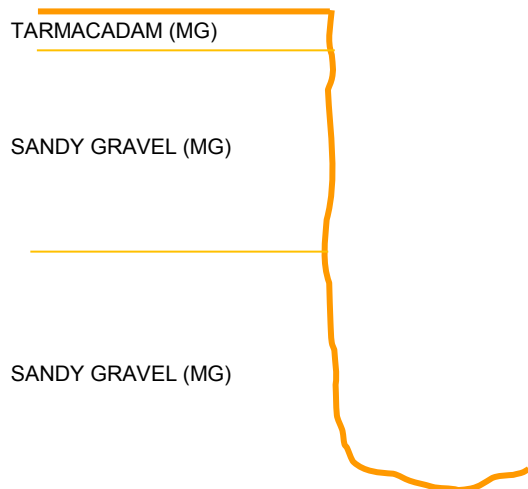
Engineer: T Benson

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:

TARMACADAM (MG)

SANDY GRAVEL (MG)

SANDY GRAVELLY COBBLES
(MG)

SANDY CLAY

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.

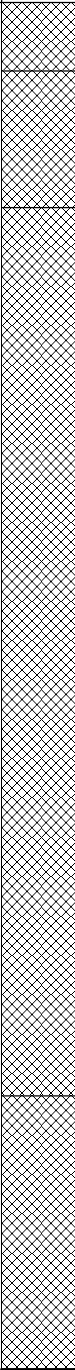


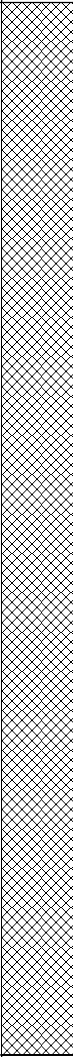
PROBEHOLE LOG

WS101

Approved By: AKC

Well	Water Strikes	Sample Depth (m)	Sample Type	Test Results	Hand Penetrometer Cu (kN/m ²)	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).	1	
				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).	
				SPT 2.00-2.45m 2/2/2/3/3/5 N=13			1.90	Strata becomes clayey and wet from 1.7m. Firm reddish brown sandy SILT. Sand is fine to medium.	2
		2.50-3.00	GEO	SPT 3.00-3.45m 4/5/6/5/5/6 N=22				...Becoming stiff.	3
				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
						4.50	EOH.	5	
Remarks									6
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.									

 Earth Environmental & Geotechnical Ltd Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA				PROBEHOLE LOG				Probehole No. WS102	
Project Name: Bradstone Road Location: Manchester Client: BDI Structural Solutions				Project No. A2333 Coordinates: X:384062, Y:400047 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/m ²)	Depth (m)	Legend	Stratum Description	
		0.20-0.40	ENV	PID=1.7ppm		0.05		Tarmacadam (MADE GROUND).	
						0.15		Light grey sandy GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse limestone. (MADE GROUND).	
						0.80		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).	
						1.00	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).		
								EOH at 1.00m due to refusal.	
Remarks 1. Borehole location scanned with CAT prior to excavation. 2. Hand dug pit to 1.2m. 3. Borehole infilled with bentonite upon completion.									

 Earth Environmental & Geotechnical Ltd Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA				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/m ²)	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.									

PROBEHOLE LOG

Probehole No.

WS104

Project Name: Bradstone Road

Location: Manchester

Client: BDI Structural Solutions

Project No. A2333

Coordinates: X383999, Y:400061

Level: GL

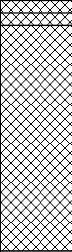
Date: 05/12/2017

Logged By: TB

Approved By: AKC

Scale: 1:30

Hole Type: WS

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).	
		1.00-1.30	ENV	SPT 1.20-1.65m 3/2/2/4/4/4 N=14		1.00		Light grey sandy GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse limestone (MADE GROUND).	1
		1.50-2.00	GEO	SPT 2.00-2.45m 3/3/3/5/5/7 N=20				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).	2
				SPT 4.00-4.45m 3/3/4/5/6/6 N=21		4.00		Stiff brown CLAY with trace gravel. Gravel is subrounded to rounded fine sandstone.	3
				SPT 5.00-5.45m 4/5/4/4/4/4 N=16		5.45		Soft to stiff light brown slightly sandy slightly clayey SILT. Sand is fine to medium.	4
								...Strata is wet from 4.8m.	5
								EOH.	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.