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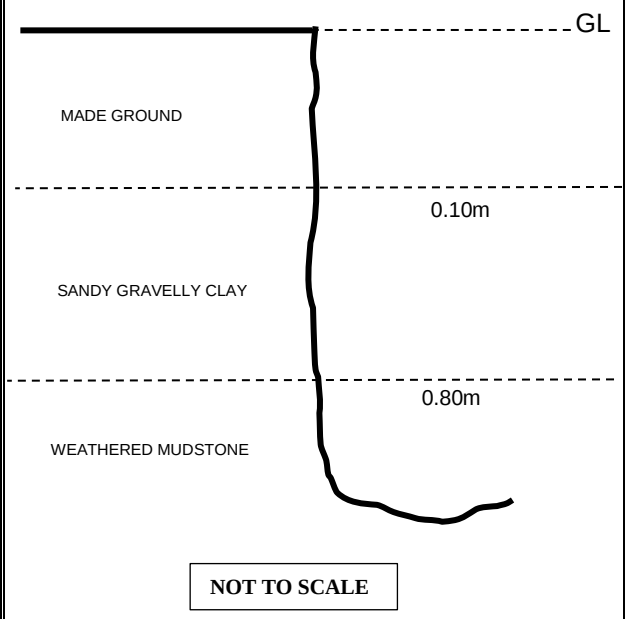
TRIAL PIT LOG

Project Name:	120 Laund Road, Huddersfield	**Hole Number:**	TP1
Date:	13/06/2019	**Logged By:**	J Sheridan
Project No.:	A0697/19	**Total Depth:**	2.50m
Client:	Creative Developments (Hudds) Ltd	**Remarks:**	No groundwater encountered

Schematic Profile:



Legend	Depth (m)	Description
	0.00-0.10	MADE GROUND: Brown, sandy, slightly gravelly CLAY with frequent roots. Gravel is fine to coarse, subangular to subrounded sandstone, mudstone and occasional brick fragments.
		Soft to firm, orange brown mottled grey, sandy, gravelly CLAY with roots. Gravel is fine to coarse subangular to subrounded of mudstone and sandstone. HVR at 0.50m = 30 kN/m^2
	0.80-2.50	Weakly bedded dark grey mottled orange, brown and grey, weathered MUDSTONE recovered as weak shaley medium to coarse gravel with clayey matrix.

Trial pit terminated at 2.50m.
ES=Environmental Sample, D=Disturbed Sample, HVR=Hand Vane Reading

Pictures:

Trial Pit 1: Internal view of excavation

Trial Pit 1: Overview of excavated soils

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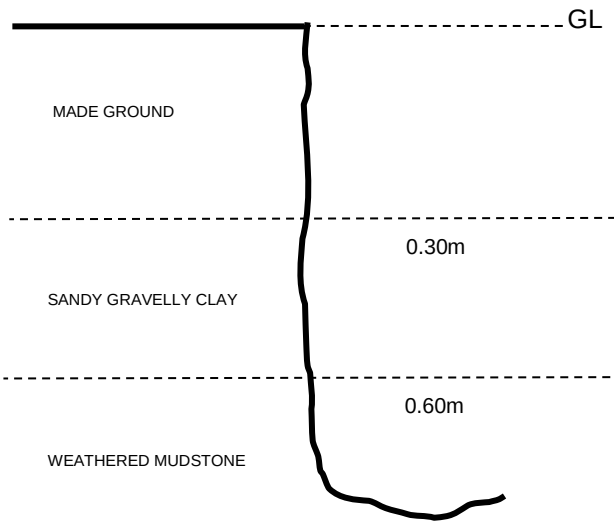
TRIAL PIT LOG

Project Name:	120 Laund Road, Huddersfield	**Hole Number:**	TP2
Date:	13/06/2019	**Logged By:**	J Sheridan
Project No.:	A0697/19	**Total Depth:**	2.90m
Client:	Creative Developments (Hudds) Ltd	**Remarks:**	No groundwater encountered

Schematic Profile:



NOT TO SCALE

Legend	Depth (m)	Description
	0.00-0.30	MADE GROUND: Greyish brown, sandy, gravelly CLAY. Gravel is fine to coarse, subangular mudstone, sandstone, plastic, brick and tile fragments. ES at 0.20m HVR at 0.50m = 29 kN/m^2
	0.30-0.60	Soft to firm, orange brown mottled grey, sandy, gravelly CLAY with roots. Gravel is fine to coarse, subangular to subrounded mudstone and sandstone.
	0.60-2.90	Weakly bedded dark grey mottled orange, brown and grey, weathered MUDSTONE recovered as weak shaley medium to coarse gravel with clayey matrix.

Trial pit terminated at 2.90m.
ES=Environmental Sample, D=Disturbed Sample, HVR=Hand Vane Reading

Pictures:

Trial Pit 2: Internal view of excavation

Trial Pit 2: Overview of excavated soils

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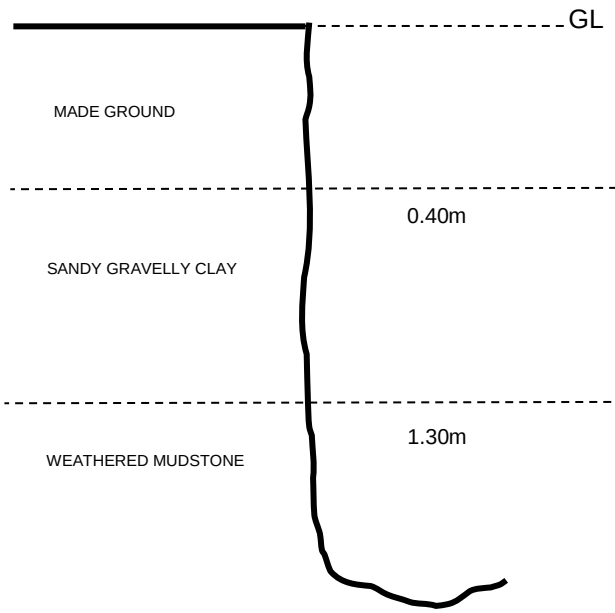
TRIAL PIT LOG

Project Name:	120 Laund Road, Huddersfield	**Hole Number:**	TP3
Date:	13/06/2019	**Logged By:**	J Sheridan
Project No.:	A0697/19	**Total Depth:**	2.90m
Client:	Creative Developments (Hudds) Ltd	**Remarks:**	No groundwater encountered

Schematic Profile:



NOT TO SCALE

Legend	Depth (m)	Description
	0.00-0.40	MADE GROUND: Brown, sandy, slightly gravelly CLAY with frequent roots. Gravel is fine to coarse, subangular to subrounded sandstone, mudstone and occasional brick/tile fragments.
	0.40-1.30	Soft to firm, orange brown mottled grey, sandy, gravelly CLAY with roots. Gravel is fine to coarse, subangular to subrounded mudstone and sandstone. HVR at 0.40m = 30 kN/m^2 HVR at 0.80m = 45 kN/m^2
	1.30-2.90	Weakly bedded dark grey mottled orange, brown and grey, weathered MUDSTONE recovered as weak shaley medium to coarse gravel with clayey matrix.

Trial pit terminated at 2.90m.
ES=Environmental Sample, D=Disturbed Sample, HVR=Hand Vane Reading

Pictures:

Trial Pit 3: Internal view of excavation

Trial Pit 3: Overview of excavated soils

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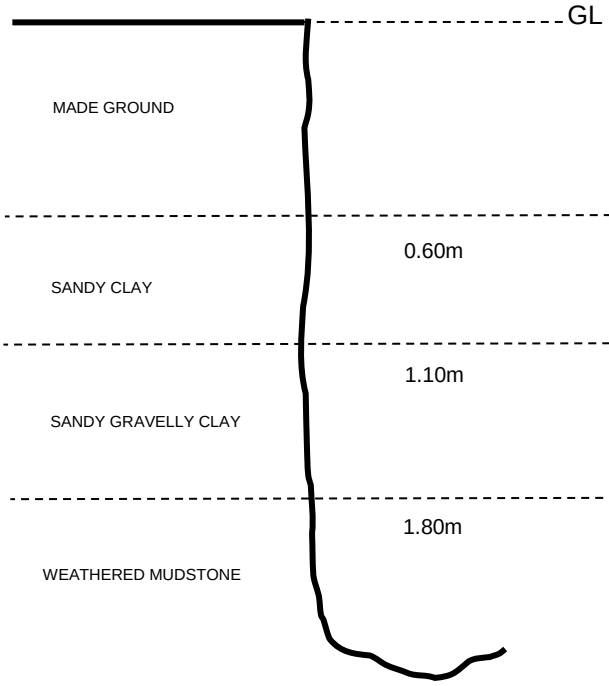
TRIAL PIT LOG

Project Name:	120 Laund Road, Huddersfield	**Hole Number:**	TP4
Date:	13/06/2019	**Logged By:**	J Sheridan
Project No.:	A0697/19	**Total Depth:**	3.10m
Client:	Creative Developments (Hudds) Ltd	**Remarks:**	No groundwater encountered

Schematic Profile:



NOT TO SCALE

Legend	Depth (m)	Description
	0.00-0.60	MADE GROUND: Soft greyish brown, sandy, gravelly CLAY with frequent roots. Gravel is fine to coarse, subangular to subrounded sandstone, mudstone, brick and concrete fragments. ES at 0.30m
	0.60-1.10	Soft to firm, brown sandy CLAY with rootlets. (Possible relict topsoil). ES at 0.70m
	1.10-1.80	Soft to firm, orange brown mottled grey, sandy, gravelly CLAY with roots. Gravel is fine to coarse, subangular to subrounded mudstone and sandstone.
	1.80-3.10	Weakly bedded dark grey mottled orange, brown and grey, weathered MUDSTONE recovered as weak shaley medium to coarse gravel with clayey matrix. D at 2.80m

Trial pit terminated at 3.10m.
ES=Environmental Sample, D=Disturbed Sample, HVR=Hand Vane Reading

Pictures:

Trial Pit 4: Internal view of excavation

Trial Pit 4: Overview of excavated soils

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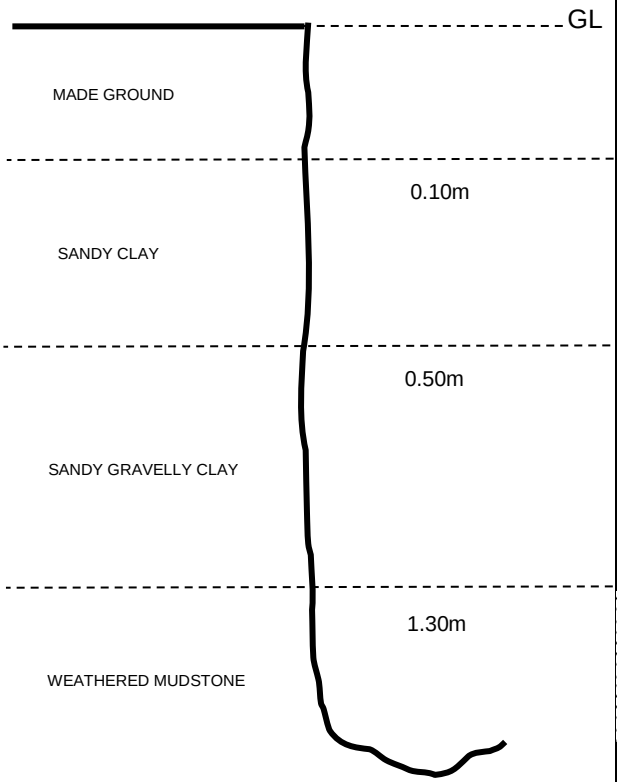
TRIAL PIT LOG

Project Name:	120 Laund Road, Huddersfield	**Hole Number:**	TP5
Date:	13/06/2019	**Logged By:**	J Sheridan
Project No.:	A0697/19	**Total Depth:**	3.00m
Client:	Creative Developments (Hudds) Ltd	**Remarks:**	No groundwater encountered

Schematic Profile:



NOT TO SCALE

Legend	Depth (m)	Description
	0.00-0.10	MADE GROUND: Soft greyish brown, sandy, gravelly CLAY. Gravel is fine to coarse, subangular to subrounded sandstone, mudstone, brick and concrete fragments.
	0.10-0.50	Soft, brown, silty, sandy CLAY with rootlets and occasional gravel of fine to medium, subrounded mudstone and sandstone. (Possible relict topsoil).
	0.50-1.30	Soft to firm, orange brown mottled grey, sandy, gravelly CLAY with roots. Gravel is fine to coarse, subangular to subrounded mudstone and sandstone. D at 1.0m HVR at 0.80m = 55 kN/m^2 HVR at 1.00m = 72 kN/m^2
	1.30-3.00	Weakly bedded dark grey mottled orange, brown and grey, weathered MUDSTONE recovered as weak shaley medium to coarse gravel with clayey matrix.

Trial pit terminated at 3.00m.
ES=Environmental Sample, D=Disturbed Sample, HVR=Hand Vane Reading

Pictures:

Trial Pit 5: Internal view of excavation

Trial Pit 5: Overview of excavated soils

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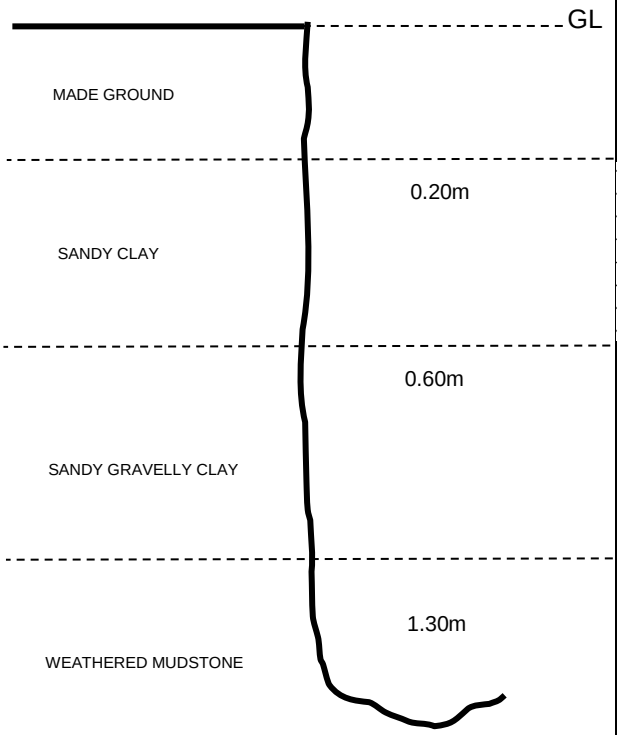
TRIAL PIT LOG

Project Name:	120 Laund Road, Huddersfield	**Hole Number:**	TP6
Date:	13/06/2019	**Logged By:**	J Sheridan
Project No.:	A0697/19	**Total Depth:**	3.10m
Client:	Creative Developments (Hudds) Ltd	**Remarks:**	No groundwater encountered

Schematic Profile:



NOT TO SCALE

Legend	Depth (m)	Description
	0.00-0.20	MADE GROUND: Soft greyish brown, sandy, gravelly CLAY. Gravel is fine to coarse, subangular to subrounded sandstone, mudstone, brick and concrete fragments.
	0.20-0.60	Soft, brown, silty, sandy CLAY with rootlets and occasional gravel of fine to medium, subrounded mudstone and sandstone. (Possible relict topsoil).
	0.60-1.20	Soft to firm, orange brown mottled grey, sandy, gravelly CLAY with roots. Gravel is fine to coarse, subangular to subrounded mudstone and sandstone. …Becoming friable from 1.00m HVR at 1.00m = 45 kN/m^2
	1.20-3.10	Weakly bedded dark grey mottled orange, brown and grey, weathered MUDSTONE recovered as weak shaley medium to coarse gravel with clayey matrix.

Trial pit terminated at 3.10m.
ES=Environmental Sample, D=Disturbed Sample, HVR=Hand Vane Reading

Pictures:

Trial Pit 6: Internal view of excavation

Trial Pit 6: Overview of excavated soils

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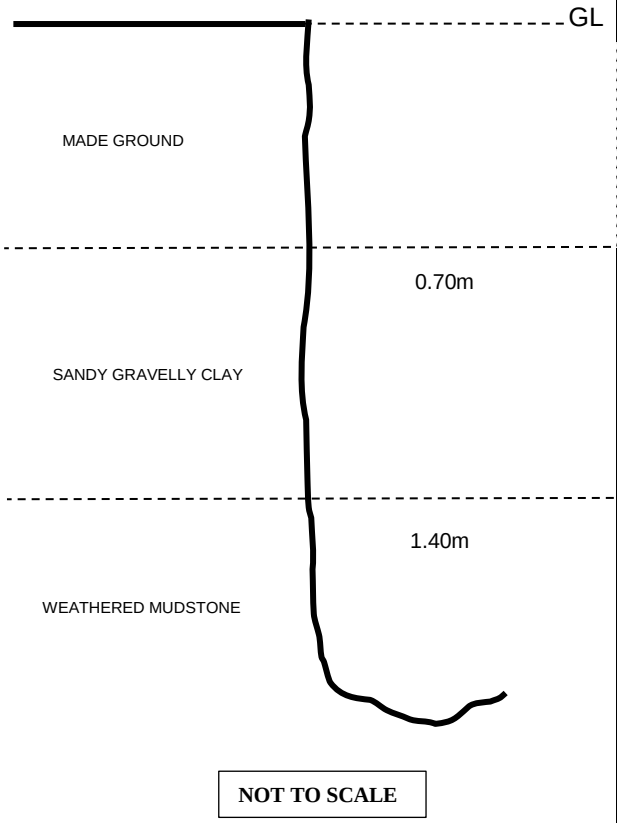
TRIAL PIT LOG

Project Name:	120 Laund Road, Huddersfield	**Hole Number:**	TP7
Date:	13/06/2019	**Logged By:**	J Sheridan
Project No.:	A0697/19	**Total Depth:**	2.80m
Client:	Creative Developments (Hudds) Ltd	**Remarks:**	No groundwater encountered

Schematic Profile:



Legend	Depth (m)	Description
	0.00-0.70	MADE GROUND: Dark brown sandy, gravelly, slightly cobbly CLAY with frequent roots. Gravel and cobbles of fine to coarse, subangular to angular of brick, concrete, wire, plastic, glass, metal fragments and clinker. ES at 0.50m
	0.70-1.40	Soft to firm, orange brown mottled grey, sandy, gravelly CLAY with roots. Gravel is fine to coarse, subangular to subrounded mudstone and sandstone. …Becoming friable from 1.10m HVR at 0.80m = 70 kN/m^2 HVR at 1.00m = 50 kN/m^2
	1.40-2.80	Weakly bedded dark grey mottled orange, brown and grey, weathered MUDSTONE recovered as weak shaley medium to coarse gravel with clayey matrix.

Trial pit terminated at 2.80m.
ES=Environmental Sample, D=Disturbed Sample, HVR=Hand Vane Reading

Pictures:

Trial Pit 7: Internal view of excavation

Trial Pit 7: Overview of excavated soils

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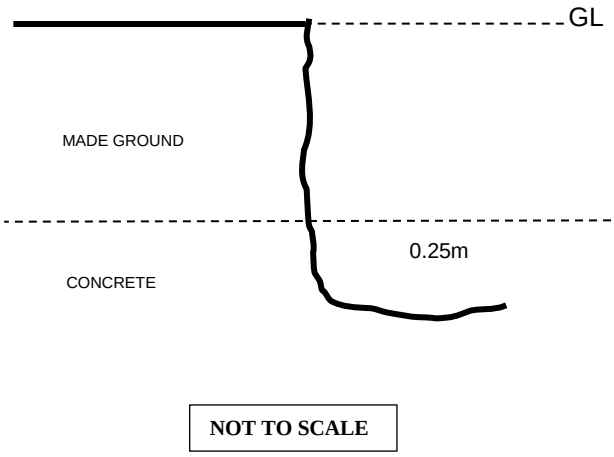
TRIAL PIT LOG

Project Name:	120 Laund Road, Huddersfield	**Hole Number:**	TP8A
Date:	13/06/2019	**Logged By:**	J Sheridan
Project No.:	A0697/19	**Total Depth:**	0.25m
Client:	Creative Developments (Hudds) Ltd	**Remarks:**	No groundwater encountered.

Schematic Profile:



Legend	Depth (m)	Description
	0.00-0.25	MADE GROUND: Dark brown sandy, gravelly, slightly cobbly CLAY with frequent roots. Gravel and cobbles of fine to coarse, subangular to angular of brick, concrete, wire, plastic, glass, metal fragments and clinker.
	0.25-	Concrete. Trial pit abandoned.

Trial pit terminated at 0.25m.

ES=Environmental Sample, D=Disturbed Sample, HVR=Hand Vane Reading

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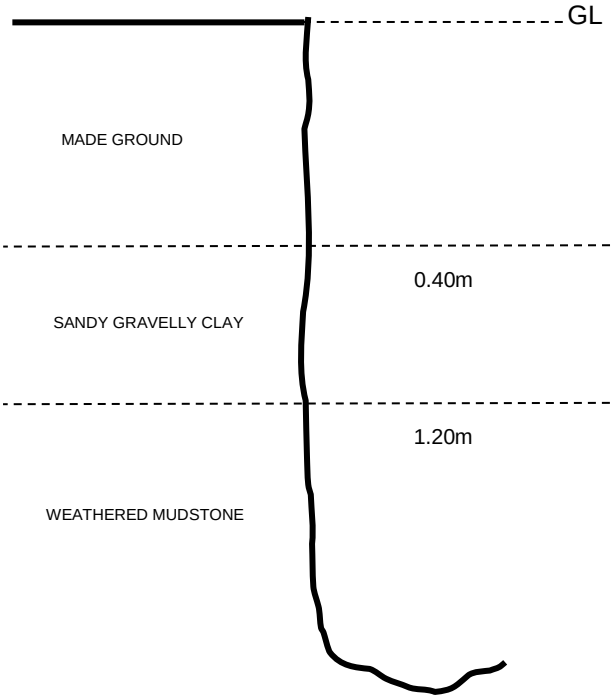
TRIAL PIT LOG

Project Name:	120 Laund Road, Huddersfield	**Hole Number:**	TP8
Date:	13/06/2019	**Logged By:**	J Sheridan
Project No.:	A0697/19	**Total Depth:**	2.90m
Client:	Creative Developments (Hudds) Ltd	**Remarks:**	No groundwater encountered

Schematic Profile:



NOT TO SCALE

Legend	Depth (m)	Description
	0.00-0.40	MADE GROUND: Dark brown sandy, gravelly, cobbly CLAY with frequent roots. Gravel and cobbles of fine to coarse, subangular to angular of brick, concrete, wire, plastic, glass, metal fragments and clinker. ES at 0.30m
	0.40-1.20	Soft to firm, orange brown mottled grey, sandy, gravelly CLAY with roots. Gravel is fine to coarse, subangular to subrounded mudstone and sandstone.
	1.20-2.90	Weakly bedded dark grey mottled orange, brown and grey, weathered MUDSTONE recovered as weak shaley medium to coarse gravel with clayey matrix.

Trial pit terminated at 2.90m.
ES=Environmental Sample, D=Disturbed Sample, HVR=Hand Vane Reading

Pictures:

Trial Pit 8: Internal view of excavation

Trial Pit 8: Overview of excavated soils

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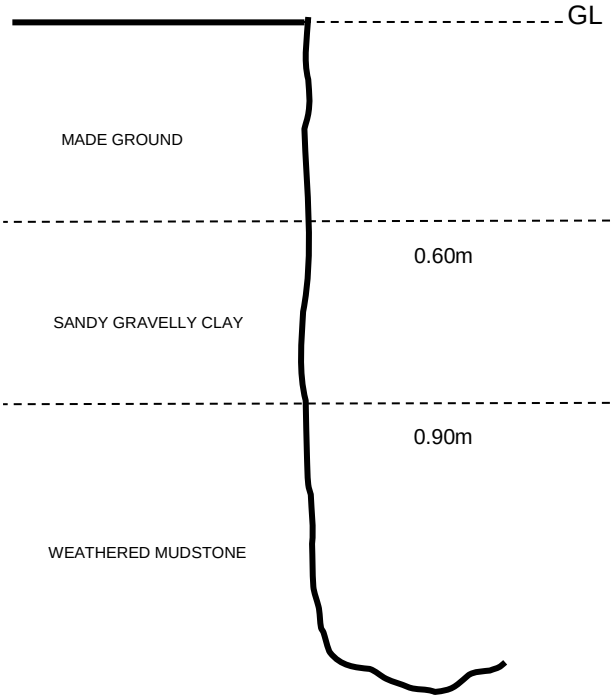
TRIAL PIT LOG

Project Name:	120 Laund Road, Huddersfield	**Hole Number:**	TP9
Date:	13/06/2019	**Logged By:**	J Sheridan
Project No.:	A0697/19	**Total Depth:**	2.80m
Client:	Creative Developments (Hudds) Ltd	**Remarks:**	No groundwater encountered

Schematic Profile:



NOT TO SCALE

Legend	Depth (m)	Description
	0.00-0.60	MADE GROUND: Dark brown sandy, gravelly, cobbly CLAY with frequent roots. Gravel and cobbles of fine to coarse, subangular to angular of brick, concrete, wire, plastic, glass, metal fragments and clinker.
	0.60-0.90	Soft to firm, orange brown mottled grey, sandy, gravelly CLAY with roots. Gravel is fine to coarse, subangular to subrounded mudstone and sandstone. HVR at 0.80m = 50 kN/m^2
	0.90-2.80	Weakly bedded dark grey mottled orange, brown and grey, weathered MUDSTONE recovered as weak shaley medium to coarse gravel with clayey matrix.

Trial pit terminated at 2.80m.
ES=Environmental Sample, D=Disturbed Sample, HVR=Hand Vane Reading

Pictures:

Trial Pit 8: Internal view of excavation

Trial Pit 8: Overview of excavated soils

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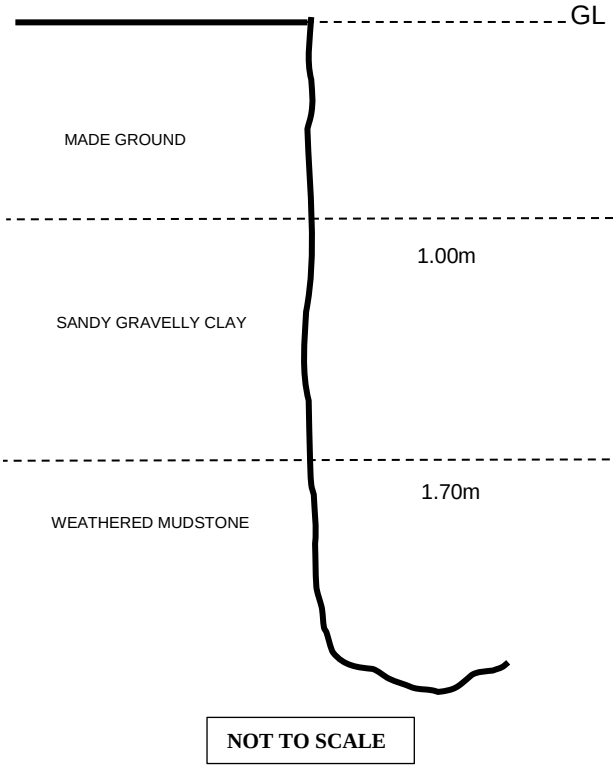
TRIAL PIT LOG

Project Name:	120 Laund Road, Huddersfield	**Hole Number:**	TP10
Date:	13/06/2019	**Logged By:**	J Sheridan
Project No.:	A0697/19	**Total Depth:**	2.80m
Client:	Creative Developments (Hudds) Ltd	**Remarks:**	No groundwater encountered

Schematic Profile:



Legend	Depth (m)	Description
	0.00-1.00	MADE GROUND: Dark brown sandy, gravelly, cobbly CLAY with frequent roots. Gravel and cobbles of fine to coarse, subangular to angular of brick, concrete, wire, plastic, glass, metal fragments and clinker.
	1.00-1.70	Soft to firm, orange brown mottled grey, sandy, gravelly CLAY with roots. Gravel is fine to coarse, subangular to subrounded mudstone and sandstone. …Becoming friable from 1.40m HVR at 1.10m = 55 kN/m^2 HVR at 1.40m = 60 kN/m^2
	1.70-2.80	Weakly bedded greyish brown mottled orange, weathered MUDSTONE recovered as weak shaley medium to coarse gravel with clayey matrix.

Trial pit terminated at 2.80m.
ES=Environmental Sample, D=Disturbed Sample, HVR=Hand Vane Reading

Pictures:

Trial Pit 8: Internal view of excavation

Trial Pit 8: Overview of excavated soils

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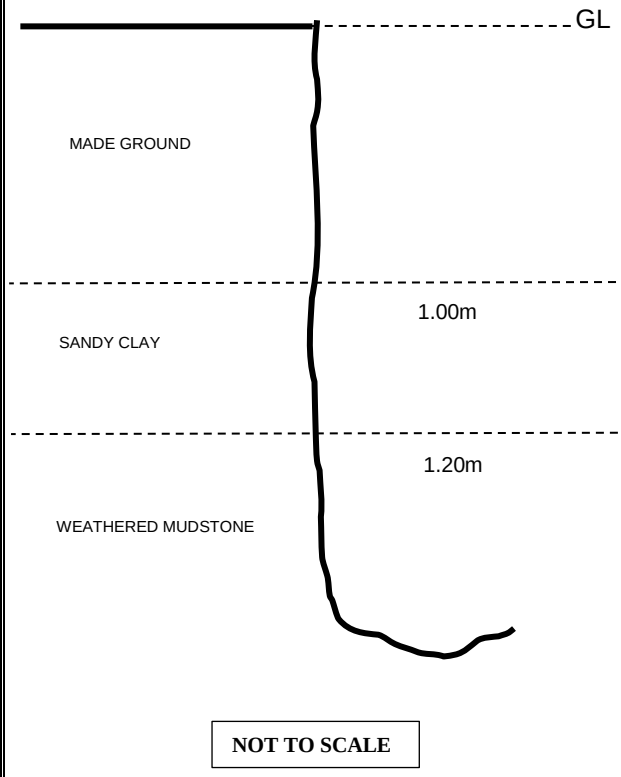
TRIAL PIT LOG

Project Name:	120 Laund Road, Huddersfield	**Hole Number:**	TP11
Date:	13/06/2019	**Logged By:**	J Sheridan
Project No.:	A0697/19	**Total Depth:**	2.70m
Client:	Creative Developments (Hudds) Ltd	**Remarks:**	No groundwater encountered

Schematic Profile:



Legend	Depth (m)	Description
	0.00-0.80	MADE GROUND: Dark brownish black clayey, gravelly, slightly cobbly fine to coarse SAND. Gravel and cobbles are fine to coarse subangular brick, concrete, tile, glass and roots. …Masonry and relict foundation recovered at 0.70m ES at 0.40m
	0.80-1.20	Firm light greyish brown, slightly sandy CLAY. D at 1.00m HVR at 1.00m = 60 kN/m^2
	1.20-2.70	Weakly bedded greyish brown mottled orange, weathered MUDSTONE recovered as weak shaley medium to coarse gravel with clayey matrix.

Trial pit terminated at 2.70m.
ES=Environmental Sample, D=Disturbed Sample, HVR=Hand Vane Reading

Pictures:

Trial Pit 8: Internal view of excavation

Trial Pit 8: Overview of excavated soils

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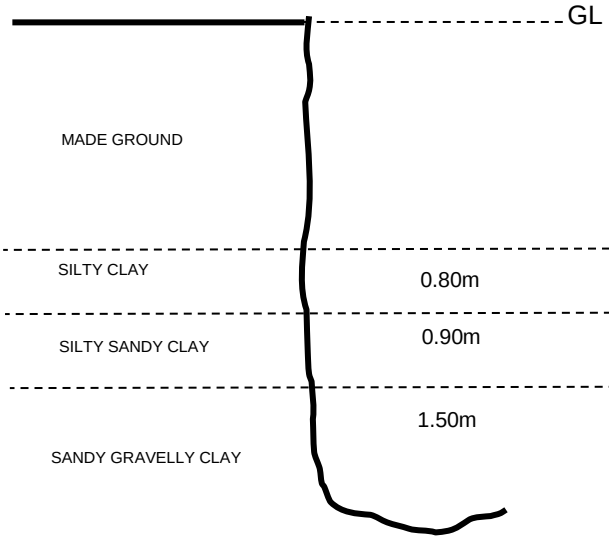
TRIAL PIT LOG

Project Name:	120 Laund Road, Huddersfield	**Hole Number:**	TP12
Date:	13/06/2019	**Logged By:**	J Sheridan
Project No.:	A0697/19	**Total Depth:**	1.50m
Client:	Creative Developments (Hudds) Ltd	**Remarks:**	Groundwater inflow from 0.80m

Schematic Profile:



NOT TO SCALE

Legend	Depth (m)	Description
	0.00-0.80	MADE GROUND: Dark brown sandy, gravelly, slightly cobbly CLAY. Gravel and cobbles of fine to coarse, subangular to angular of brick, concrete, wire, plastic, glass, metal fragments, domestic waste, litter and clinker. …Moderate groundwater inflow from 0.80m.
	0.80-0.90	Light brown silty CLAY.
	0.90-1.00	Brown silty, slightly sandy CLAY.
	1.00-1.50	Soft to firm, orange brown mottled grey, sandy, gravelly CLAY with roots. Gravel is fine to coarse, subangular to subrounded mudstone and sandstone.

Trial pit terminated at 1.50m.
ES=Environmental Sample, D=Disturbed Sample, HVR=Hand Vane Reading

Pictures:

Trial Pit 12: Internal view of excavation

Trial Pit 12: Overview of excavated soils

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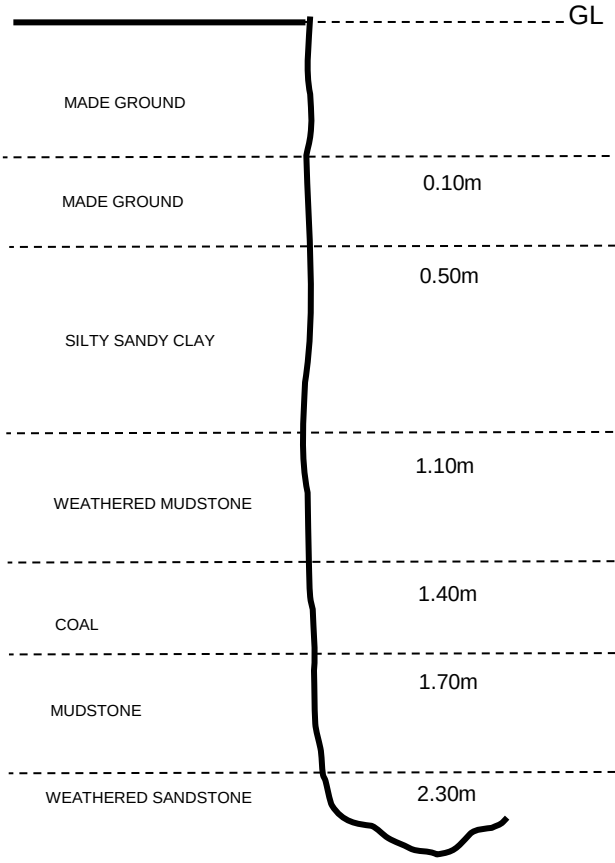
TRIAL PIT LOG

Project Name:	120 Laund Road, Huddersfield	**Hole Number:**	TP13
Date:	14/06/2019	**Logged By:**	J Sheridan
Project No.:	A0697/19	**Total Depth:**	3.00m
Client:	Creative Developments (Hudds) Ltd	**Remarks:**	No groundwater encountered

Schematic Profile:



NOT TO SCALE

Legend	Depth (m)	Description
	0.00-0.10	MADE GROUND: Dark greyish black, clayey, gravelly, slightly cobbly fine to coarse SAND. Gravel and cobbles of fine to coarse, subangular to angular brick, concrete, sandstone, mudstone and glass.
	0.10-0.50	MADE GROUND: Orangish brown, gravelly fine to coarse SAND. Gravel is fine to medium, subangular to angular of sandstone.
	0.50-1.10	Soft to firm greyish brown mottled orange, sandy, slightly gravelly CLAY. Gravel of fine to medium, subangular to subrounded sandstone and mudstone. …Becoming friable from 0.90m HVR at 0.70m = 40 kN/m^2
	1.10-1.40	Weakly bedded greyish brown mottled orange, weathered MUDSTONE recovered as weak shaley medium to coarse gravel with clayey matrix.
	1.40-1.70	Soft dull COAL recovered as fine to coarse gravel with rare semi-bright lumps. D at 1.50m
	1.70-2.30	Weakly bedded light grey MUDSTONE recovered as weak shaley medium to coarse gravel with clayey matrix. D at 2.00m
	2.30-3.00	Yellow, thinly bedded, weathered SANDSTONE recovered as silty, sandy, fine to coarse gravel.

Trial pit terminated at 3.00m.
ES=Environmental Sample, D=Disturbed Sample, HVR=Hand Vane Reading

Pictures:

Trial Pit 13: Internal view of excavation

Trial Pit 13: Overview of excavated soils

EARTH ENVIRONMENTAL & GEOTECHNICAL
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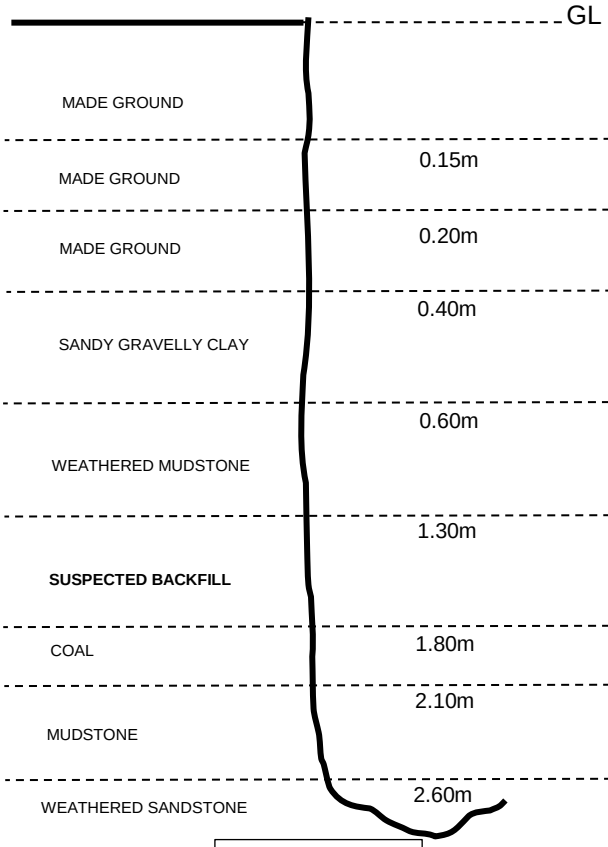
TRIAL PIT LOG

Project Name:	120 Laund Road, Huddersfield	**Hole Number:**	TP14
Date:	14/06/2019	**Logged By:**	J Sheridan
Project No.:	A0697/19	**Total Depth:**	3.00m
Client:	Creative Developments (Hudds) Ltd	**Remarks:**	Groundwater seepage at 1.50m with significant sidewall collapse between 1.40m and 2.20m. Suspected workings present. Trial pit extended.

Schematic Profile:



NOT TO SCALE

Legend	Depth (m)	Description
	0.00-0.15	MADE GROUND: Dark greyish black, clayey, gravelly fine to coarse SAND. Gravel of fine to coarse, subangular to angular brick, concrete, sandstone, mudstone and glass. ES at 0.30m
	0.15-0.20	MADE GROUND: Slightly cobbly, fine to coarse gravel of crushed red brick.
	0.20-0.40	MADE GROUND: Greyish brown, slightly sandy, slightly gravelly CLAY. Gravel of fine to coarse, subangular brick, concrete and glass.
	0.40-0.60	Soft to firm brown mottled orange, sandy, slightly gravelly CLAY. Gravel of fine to medium, subangular to subrounded sandstone and mudstone.
	0.60-1.30	Weakly bedded greyish brown mottled orange, weathered MUDSTONE recovered as weak shaley medium to coarse gravel with clayey matrix.
	1.30-1.80	**SUSPECTED BACKFILL MATERIAL:** Loose, wet, dark grey very clayey/silty fine to coarse, subangular GRAVEL of mudstone. …Sidewalls collapsing from 1.40m
	1.80-2.10	Soft dull COAL (only present in one half of the pit/trench).
	2.10-2.60	Weakly bedded light grey MUDSTONE recovered as weak shaley medium to coarse gravel with clayey matrix.
	2.60-3.00	Yellow, thinly bedded, weathered SANDSTONE recovered as silty, sandy, fine to coarse gravel.

Trial pit terminated at 3.00m.
ES=Environmental Sample, D=Disturbed Sample, HVR=Hand Vane Reading

Pictures:

Trial Pit 14: Internal view of excavation

Trial Pit 14: Overview of excavated soils

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TRIAL PIT LOG

Project Name: 120 Laund Road, Huddersfield

Date: 14/06/2019

Project No.: A0697/19

Client: Creative Developments (Hudds) Ltd

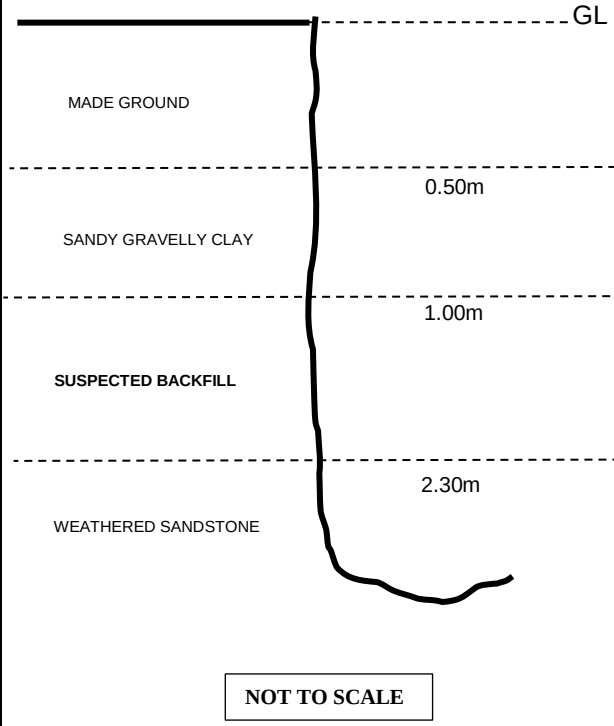
Hole Number: TP15

Logged By: J Sheridan

Total Depth: 2.70m

Remarks: Groundwater seepage from 2.30m with significant sidewall collapse between 1.20m and 2.00m. Suspected workings present. Trial pit extended.

Schematic Profile:



Legend	Depth (m)	Description
	0.00-0.50	MADE GROUND: Dark greyish black, clayey, gravelly fine to coarse SAND. Gravel of fine to coarse, subangular to angular brick, concrete, sandstone, mudstone and glass. ES at 0.30m
	0.50-1.00	Soft to firm brown mottled orange, sandy, slightly gravelly CLAY. Gravel of fine to medium, subangular to subrounded sandstone and mudstone.
	1.00-2.30	**SUSPECTED BACKFILL MATERIAL:** Loose, wet, dark grey very clayey/silty fine to coarse, subangular GRAVEL of mudstone. …Sidewalls collapsing from 1.20m ES at 1.20m
	2.30-2.70	Yellow, thinly bedded, weathered SANDSTONE recovered as silty, sandy, fine to coarse gravel.

Trial pit terminated at 2.70m.
ES=Environmental Sample, D=Disturbed Sample, HVR=Hand Vane Reading

Pictures:

Trial Pit 15: Internal view of excavation

Trial Pit 15: Overview of excavated soils

EARTH ENVIRONMENTAL & GEOTECHNICAL Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA	# Borehole Log		Borehole No. **WS1** Sheet 1 of 1
Project Name: 120 Laund Road	Project No. A0697	Co-ords: -	Hole Type WS
Location: Huddersfield		Level:	Scale 1:20
Client: Creative Developments (Huddersfield) Ltd		Dates: 14/06/2019 - 14/06/2019	Logged By JS

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.40	ES					TOPSOIL: Grass over brown sandy, slightly gravelly CLAY with frequent roots. Gravel is fine to medium, subangular to subrounded of sandsstone and mudstone. Rare brick and tile inclusions.
		0.70 - 1.00	U		0.70			Firm greyish brown mottled orange, sandy, slightly gravelly CLAY. Gravel of fine to medium, subangular to subrounded sandstone and mudstone.
		1.20		N=10 (2,1/2,3,2,3)				*...Becoming friable at 1.1m.*
					1.30			Weakly bedded greyish brown weathered MUDSTONE, recovered as weak shaley fine to coarse gravel with clayey matrix.
		2.00		N=50 (10,10/50 for 255mm)	2.00			End of borehole at 2.00 m

1
2
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4

Remarks
1. Borehole scanned with CAT.
2. No groundwater encountered.
3. Backfilled on completion.

EARTH ENVIRONMENTAL & GEOTECHNICAL

EARTH ENVIRONMENTAL & GEOTECHNICAL Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA	# Borehole Log		Borehole No. **WS2** Sheet 1 of 1
Project Name: 120 Laund Road	Project No. A0697	Co-ords: -	Hole Type WS
Location: Huddersfield		Level:	Scale 1:20
Client: Creative Developments (Huddersfield) Ltd		Dates: 14/06/2019 - 14/06/2019	Logged By JS

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND: Soft brown, slightly sandy, slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded of sandstone, mudstone and occasional brick, concrete and glass fragments.	
					0.60			Firm greyish brown mottled orange, sandy, slightly gravelly CLAY. Gravel of fine to medium, subangular to subrounded sandstone and mudstone.	
								…Becoming friable at 1.0m.	1
		1.20 1.20	D	N=29 (5,6/6,7,6,10)	1.30			Weakly bedded greyish brown weathered MUDSTONE, recovered as weak shaley fine to coarse gravel with clayey matrix.	
		2.00		50 (11,13/50 for 210mm)	2.00			End of borehole at 2.00 m	2
									3
									4

Remarks
1. Borehole scanned with CAT.
2. No groundwater encountered.
3. Backfilled on completion.

EARTH ENVIRONMENTAL & GEOTECHNICAL

EARTH ENVIRONMENTAL & GEOTECHNICAL Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA	# Borehole Log		Borehole No. **WS3** Sheet 1 of 1
Project Name: 120 Laund Road	Project No. A0697	Co-ords: -	Hole Type WS
Location: Huddersfield		Level:	Scale 1:20
Client: Creative Developments (Huddersfield) Ltd		Dates: 14/06/2019 - 14/06/2019	Logged By JS

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								TOPSOIL: Grass over brown sandy, slightly gravelly CLAY with frequent roots. Gravel of fine to medium, subangular to subrounded sandstone and mudstone, with rare brick and tile inclusions.	
					0.80			Firm greyish brown mottled orange, sandy, slightly gravelly CLAY. Gravel of fine to medium, subangular to subrounded sandstone and mudstone.	1
		1.20		N=13 (1,1/3,3,3,4)	1.20			Weakly bedded greyish brown weathered MUDSTONE, recovered as weak shaley fine to coarse gravel with clayey matrix.	
		2.00		N=32 (7,7/7,8,8,9)					2
		3.00		N=50 (12,12/50 for 245mm)	3.00			End of borehole at 3.00 m	3
									4

Remarks
1. Borehole scanned with CAT.
2. No groundwater encountered.
3. Backfilled on completion.

EARTH ENVIRONMENTAL & GEOTECHNICAL

EARTH ENVIRONMENTAL & GEOTECHNICAL Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA	# Borehole Log		Borehole No. **WS4** Sheet 1 of 1
Project Name: 120 Laund Road	Project No. A0697	Co-ords: -	Hole Type WS
Location: Huddersfield		Level:	Scale 1:20
Client: Creative Developments (Huddersfield) Ltd		Dates: 14/06/2019 - 14/06/2019	Logged By JS

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND: Dark brown, sandy, slightly gravelly, slightly cobbly CLAY. Gravel and cobbles of fine to coarse, subangular brick and concrete.	
					0.25			MADE GROUND: Yellow gravelly fine to coarse SAND. Gravel of fine to coarse subangular sandstone and limestone.	
					0.40			Soft to firm brown mottled orange, sandy, slightly gravelly CLAY. Gravel of fine to medium, subangular to subrounded sandstone and mudstone.	1
		1.20		N=27 (5,6/6,5,7,9)	1.20			Weakly bedded light grey weathered MUDSTONE, recovered as weak shaley medium to coarse gravel with clayey matrix. *...Becoming orange mottled from 1.5m.*	
		2.00		50 (25 for 135mm/50 for 215mm)	2.00			End of borehole at 2.00 m	2
									3
									4

Remarks
1. Borehole scanned with CAT.
2. No groundwater encountered.
3. Backfilled on completion.

EARTH ENVIRONMENTAL & GEOTECHNICAL

EARTH ENVIRONMENTAL & GEOTECHNICAL Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA	# Borehole Log		Borehole No. **WS5** Sheet 1 of 1
Project Name: 120 Laund Road	Project No. A0697	Co-ords: -	Hole Type WS
Location: Huddersfield		Level:	Scale 1:20
Client: Creative Developments (Huddersfield) Ltd		Dates: 14/06/2019 - 14/06/2019	Logged By JS

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND: Soft greyish brown sandy, gravelly CLAY. Gravel of fine to coarse, subangular to angular mudstone, sandstone, clinker, brick and concrete fragments.	
					0.90			Soft to firm brown mottled orange, sandy, slightly gravelly CLAY. Gravel of fine to medium, subangular to subrounded sandstone and mudstone.	1
	▼	1.20		N=38 (7,7/9,9,9,11)				*...Becoming friable at 1.2m.*	
					1.50			Weakly bedded grey weathered MUDSTONE, recovered as weak shaley medium to coarse gravel with clayey matrix.	
		1.80	D						
		2.00		N=50 (11,11/50 for 285mm)	2.00			End of borehole at 2.00 m	2
									3
									4

Remarks
1. Borehole scanned with CAT.
2. Perched groundwater encountered at 1.2m.
3. Backfilled on completion.

EARTH ENVIRONMENTAL & GEOTECHNICAL

EARTH ENVIRONMENTAL & GEOTECHNICAL Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA	# Borehole Log		Borehole No. **WS6** Sheet 1 of 1
Project Name: 120 Laund Road	Project No. A0697	Co-ords: -	Hole Type WS
Location: Huddersfield		Level:	Scale 1:20
Client: Creative Developments (Huddersfield) Ltd		Dates: 14/06/2019 - 14/06/2019	Logged By JS

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.50	ES					MADE GROUND: Dark grey/black, sandy, slightly gravelly CLAY with frequent intact brick cobbles. Gravel of fine to coarse, angular to subangular brick, concrete, coal and clinker fragments. ...Flush brick wall encountered along southern edge of hand dug pit. Possible relict foundation wall.	
					1.00			Weakly bedded dark grey mottled orange weathered MUDSTONE, recovered as weak shaley medium to coarse gravel with clayey matrix.	1
		1.20		N=26 (1,1/5,5,6,10)					
		1.50	D						
					1.60			COAL. Dull with rare lustrous lumps.	
					1.80			Weakly bedded dark grey mottled orange MUDSTONE, recovered as weak shaley medium to coarse gravel.	
		2.00		N=50 (9,10/50 for 285mm)	2.00			End of borehole at 2.00 m	2
									3
									4

Remarks
1. Borehole scanned with CAT.
2. No groundwater encountered.
3. Backfilled on completion.

EARTH ENVIRONMENTAL & GEOTECHNICAL

EARTH ENVIRONMENTAL & GEOTECHNICAL Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA	# Borehole Log		Borehole No. **WS7** Sheet 1 of 1
Project Name: 120 Laund Road	Project No. A0697	Co-ords: -	Hole Type WS
Location: Huddersfield		Level:	Scale 1:20
Client: Creative Developments (Huddersfield) Ltd		Dates: 14/06/2019 - 14/06/2019	Logged By JS

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
								MADE GROUND: Dark grey/black, sandy, slightly gravelly CLAY with frequent intact brick cobbles. Gravel of fine to coarse, angular to subangular brick, concrete, coal and clinker fragments.
					0.60			MADE GROUND/REWORKED: Soft to firm, dark grey/black gravelly CLAY with occasional orange mottling. Gravel of fine to coarse, angular to subangular mudstone and rare brick fragments in upper 1.0m. *HV: 30kN/m2.*
		1.20		N=3 (1,0/1,0,1,1)				
					1.80			SUSPECTED BACKFILL MATERIAL: Loose, wet dark grey/black clayey shaley GRAVEL of fine to medium angular to subangular mudstone.
		2.00		N=3 (0,0/0,1,0,2)				
					2.60			Yellow weathered SANDSTONE. Recovered as silty, sandy, fine to coarse subangular gravel.
		2.80		50 (25 for 75mm/50 for 80mm)	2.80			End of borehole at 2.80 m

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Remarks
1. Borehole scanned with CAT.
2. Perched groundwater encountered at 2.0m.
3. Backfilled on completion.

EARTH ENVIRONMENTAL & GEOTECHNICAL

EARTH ENVIRONMENTAL & GEOTECHNICAL Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA	# Borehole Log		Borehole No. **WS01** Sheet 1 of 1
Project Name: 120 Laund Road	Project No. A0697	Co-ords: -	Hole Type WS
Location: Huddersfield		Level:	Scale 1:20
Client: Creative Developments (Huddersfield) Ltd		Dates: 04/09/2019 - 04/09/2019	Logged By AB

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
								Soft dark brown sandy gravelly CLAY with frequent cobbles and boulders. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of brick, tile, concrete and sandstone. Cobbles and boulders are subangular of sandstone and brick. (MADE GROUND)
					1.20			Soft to firm brown mottled black slightly clayey SILT with frequent pockets of extremely weak mudstone (up to 70mm). Occasional angular fine to coarse gravel of clinker. (MADE GROUND)
					2.00			Very weak yellow mottled orange fine to medium grained SANDSTONE.
					2.60			End of borehole at 2.60 m

1 2 3 4

Remarks
Location scanned with CAT prior to excavation.
Hand dug pit excavated to 1.20m.
No monitoring installation; backfilled with arisings.

EARTH ENVIRONMENTAL & GEOTECHNICAL

EARTH ENVIRONMENTAL & GEOTECHNICAL Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA	# Borehole Log		Borehole No. **WS01A** Sheet 1 of 1
Project Name: 120 Laund Road	Project No. A0697	Co-ords: -	Hole Type WS
Location: Huddersfield		Level:	Scale 1:20
Client: Creative Developments (Huddersfield) Ltd		Dates: 04/09/2019 - 04/09/2019	Logged By AB

Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
								Soft dark brown very sandy gravelly CLAY with rare cobbles and boulders. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of brick, tile, concrete and sandstone. Cobbles and boulders are subangular of sandstone and brick. (MADE GROUND)
					0.50			Soft grey mottled yellowish brown slightly clayey SILT. Frequent pockets of very weak mudstone (up to 80mm). (MADE GROUND)
					1.20			Stiff grey mottled black and orange slightly silty CLAY. Frequent mudstone fragments. *50mm thick band of clinker.*
					1.80			Very weak weathered yellow mottled orange fine to medium grained SANDSTONE.
					2.60			End of borehole at 2.60 m

Remarks
Location scanned with CAT prior to excavation.
Hand dug pit excavated to 1.20m.
Monitoring installation; 1m Plain, 1.5m Slotted.

EARTH ENVIRONMENTAL & GEOTECHNICAL

EARTH ENVIRONMENTAL & GEOTECHNICAL Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA	# Borehole Log		Borehole No. **WS02** Sheet 1 of 1
Project Name: 120 Laund Road	Project No. A0697	Co-ords: -	Hole Type WS
Location: Huddersfield		Level:	Scale 1:20
Client: Creative Developments (Huddersfield) Ltd		Dates: 04/09/2019 - 04/09/2019	Logged By AB

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.20			Black gravelly clayey fine to coarse SAND with frequent cobbles. Gravel is angular to subangular fine to coarse of brick, sandstone and mudstone. Cobbles and boulders are angular to subangular of brick and concrete. (MADE GROUND)
					0.55			Soft light brown mottled grey slightly silty slightly sandy slightly gravelly CLAY. Sand is fine. Gravel is angular fine of brick and mudstone. (MADE GROUND)
								Thinly laminated light grey MUDSTONE recovered as extremely weak shaley fine to coarse gravel with clay matrix and partings.
					1.20			Thinly laminated grey MUDSTONE recovered as extremely weak shaley fine to coarse gravel with clay matrix and partings.
								70mm thick band of intact mudstone with high clay content.
					1.70			End of borehole at 1.70 m

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Remarks
Location scanned with CAT prior to excavation.
Hand dug pit excavated to 1.20m.
Monitoring installation; 0.7m Plain, 1.0m Slotted.

EARTH ENVIRONMENTAL & GEOTECHNICAL

EARTH ENVIRONMENTAL & GEOTECHNICAL Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA	# Borehole Log		Borehole No. **WS03** Sheet 1 of 1
Project Name: 120 Laund Road	Project No. A0697	Co-ords: -	Hole Type WS
Location: Huddersfield		Level:	Scale 1:20
Client: Creative Developments (Huddersfield) Ltd		Dates: 04/09/2019 - 04/09/2019	Logged By AB

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.15 0.20 0.30			Soft brown mottled light brown slightly silty sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to medium of mudstone, sandstone and occasional clinker. Frequent roots and rootlets. (MADE GROUND) Extremely weak grey mottled orangish brown thinly laminated (up to 5mm) MUDSTONE (MADE GROUND). Soft brown slightly silty gravelly CLAY. Gravel is subangular fine to coarse of sandstone, clinker and mudstone. Occasional wood fragments (MADE GROUND). Extremely weak grey mottled orange and black thinly laminated (up to 5mm) MUDSTONE. Frequents clay partings. *Green plastic sheet.*
					1.70			End of borehole at 1.70 m

Remarks
Location scanned with CAT prior to excavation.
Hand dug pit excavated to 1.20m.
Monitoring installation; 0.7m Plain, 1.0m Slotted.

EARTH ENVIRONMENTAL & GEOTECHNICAL

EARTH ENVIRONMENTAL & GEOTECHNICAL Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA	# Borehole Log		Borehole No. **WS04** Sheet 1 of 1
Project Name: 120 Laund Road	Project No. A0697	Co-ords: -	Hole Type WS
Location: Huddersfield		Level:	Scale 1:20
Client: Creative Developments (Huddersfield) Ltd		Dates: 04/09/2019 - 04/09/2019	Logged By AB

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.10			Soft brown sandy gravelly CLAY with rare cobbles. Sand is fine to coarse. Gravel is subangular of sandstone. Cobbles are subangular of sandstone MADE GROUND).
					0.80			Soft dark brown mottled reddish brown slightly silty slightly sandy CLAY. Frequent roots and rootlets (up to 80mm long). Rare glass and tile fragments. Rare subangular quartzite cobbles MADE GROUND).
								Dark grey extremely weak thinly laminated (up to 5 mm) MUDSTONE with frequent orangish brown clay partings.
					2.80			End of borehole at 2.80 m

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4

Remarks
Location scanned with CAT prior to excavation.
Hand dug pit excavated to 1.20m.
Monitoring installation; 0.8m Plain, 2.0m Slotted.

EARTH ENVIRONMENTAL & GEOTECHNICAL

EARTH ENVIRONMENTAL & GEOTECHNICAL Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA	# Rotary Open Hole Log		Borehole No. **RO1** Sheet 1 of 2
Project Name: 120 Laund Road	Project No. A0697	Co-ords: -	Hole Type RO
Location: Huddersfield		Level:	Scale 1:100
Client: Creative Developments (Huddersfield) Ltd		Dates: 12/06/2019 - 12/06/2019	Logged By JS

Well	Water Strikes	Depth (m)	Type / FI	Coring TCR	Coring SCR	Coring RQD	Depth (m)	Level (m)	Legend	Stratum Description
							0.20			TOPSOIL. Weathered SANDSTONE with clay partings.
							1.00			Dark grey/black MUDSTONE
							3.60			Grey SILTSTONE.
							6.80			Black dark grey SILTSTONE with coal traces.
							8.40 8.60			COAL. *Coal intact no loss of flush or voids.* Greyish brown SANDSTONE.
							14.60			Strong grey SANDSTONE.

Continued on next sheet

Remarks
1. Borehole scanned with CAT
2. Infilled with grout on completion.

EARTH ENVIRONMENTAL & GEOTECHNICAL

EARTH ENVIRONMENTAL & GEOTECHNICAL Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA	# Rotary Open Hole Log		Borehole No. **RO1** Sheet 2 of 2
Project Name: 120 Laund Road	Project No. A0697	Co-ords: -	Hole Type RO
Location: Huddersfield		Level:	Scale 1:100
Client: Creative Developments (Huddersfield) Ltd		Dates: 12/06/2019 - 12/06/2019	Logged By JS

Well	Water Strikes	Depth (m)	Type / FI	Coring TCR	Coring SCR	Coring RQD	Depth (m)	Level (m)	Legend	Stratum Description	
[redacted]											21
											22
											23
											24
											25
											26
											27
											28
											29
							30.00			End of borehole at 30.00 m	30
											31
											32
											33
											34
											35
											36
											37
											38
											39
											40

Remarks
1. Borehole scanned with CAT
2. Infilled with grout on completion.

EARTH ENVIRONMENTAL & GEOTECHNICAL

EARTH ENVIRONMENTAL & GEOTECHNICAL Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA	# Rotary Open Hole Log		Borehole No. **RO2** Sheet 1 of 2
Project Name: 120 Laund Road	Project No. A0697	Co-ords: -	Hole Type RO
Location: Huddersfield		Level:	Scale 1:100
Client: Creative Developments (Huddersfield) Ltd		Dates: 12/06/2019 - 12/06/2019	Logged By JS

Well	Water Strikes	Depth (m)	Type / FI	Coring TCR	Coring SCR	Coring RQD	Depth (m)	Level (m)	Legend	Stratum Description
							0.20			Topsoil
										Weathered SANDSTONE with clay bands/ partings.
							1.20			Dark grey/black MUDSTONE.
							6.00			Black SILTSTONE with coal traces.
							7.20			COAL. *Coal intact no loss of flush or voids.*
							7.60			Grey SILTSTONE.
							8.00			Greyish brown SANDSTONE.
							13.10			Strong grey SANDSTONE. *Loss of flush at 29.0m. Hard drilling and no voids. Inferred fractured sandstone.*

Continued on next sheet

Remarks
1. Borehole scanned with CAT
2. Infilled with grout on completion.

EARTH ENVIRONMENTAL & GEOTECHNICAL

EARTH ENVIRONMENTAL & GEOTECHNICAL Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA	# Rotary Open Hole Log		Borehole No. **RO2** Sheet 2 of 2
Project Name: 120 Laund Road	Project No. A0697	Co-ords: -	Hole Type RO
Location: Huddersfield		Level:	Scale 1:100
Client: Creative Developments (Huddersfield) Ltd		Dates: 12/06/2019 - 12/06/2019	Logged By JS

Well	Water Strikes	Depth (m)	Type / FI	Coring TCR	Coring SCR	Coring RQD	Depth (m)	Level (m)	Legend	Stratum Description
[redacted]										
							30.00			End of borehole at 30.00 m

Remarks
1. Borehole scanned with CAT
2. Infilled with grout on completion.

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