

**APPENDIX F
TRIAL PIT LOGS**

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP1

DATE 28/03/2008

Co-ords 436782E 405566N

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
1D	0.30		MADE GROUND: Brown gravelly clay. Gravel is angular to subrounded, fine to coarse of brick, concrete, sandstone and quartz. (COHESIVE MADE GROUND)				
2D	0.70		MADE GROUND: Brown, slightly gravelly clay with occasional rootlets. Gravel is fine to medium of mixed lithologies. (RELICT TOPSOIL)	0.40			
3D	1.00		Firm, orange brown, slightly sandy CLAY. (COMPLETELY WEATHERED SANDSTONE)	0.80			
4D	1.60		Firm, orange brown mottled grey, slightly sandy CLAY with occasional angular cobbles of sandstone. (COMPLETELY WEATHERED SANDSTONE)	1.40			
			Orange brown angular COBBLES of sandstone with occasional pockets (<250mm diameter) of stiff clay. (WEATHERED SANDSTONE) From 2.0 - 2.5m: Difficult to excavate.	2.00			
			Stiff, orange brown mottled grey, thinly bedded CLAY. (COMPLETELY WEATHERED SANDSTONE)	2.50			
			End of trial pit at 2.90 m	2.90			

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit remained stable during excavation.
3. Groundwater was not apparent during excavation.
4. On completion the trial pit was backfilled with materials arising.

Equipment/Methods

JCB 3CX with 0.6m wide straight edged bucket.

Logged by

A.Sw

JOB

9507

FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP2

DATE 28/03/2008

Co-ords 436792E 405543N

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
1D	0.30		MADE GROUND: Brown gravelly clay. Gravel is angular to subangular, fine to coarse of brick, concrete, ceramic and sandstone. Rare plastic (<100mm length). (COHESIVE MADE GROUND)				
2D	0.80		MADE GROUND: Brown, slightly gravelly clay with occasional rootlets. Gravel is angular, fine to coarse of brick and ceramic. (RELICT TOPSOIL)	0.70			
3D	1.50		Stiff, orange brown mottled grey, slightly sandy CLAY. (COMPLETELY WEATHERED SANDSTONE)	1.20			
			At 1.9m depth: 100mm diameter ceramic drainage pipe. Trial pit abandoned. End of trial pit at 1.90 m	1.90			

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit remained stable during excavation.
3. Groundwater was not apparent during excavation.
4. On completion the trial pit was backfilled with materials arising.

Equipment/Methods

JCB 3CX with 0.6m wide straight edged bucket.

Logged by

A.Sw

JOB

9507

FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP3

DATE 28/03/2008

Co-ords 436807E 405516N

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	In-situ test	description	depth (m)	level (m)	ground water	legend
1D	0.50		MADE GROUND: Brown gravelly clay with rare whole bricks. Gravel is angular, fine to coarse of brick, concrete, ceramic and sandstone. Rare plastic (<100mm length). (COHESIVE MADE GROUND)				
2D	1.20		Orange brown, sandy, angular to subangular, fine to coarse GRAVEL of sandstone with occasional angular tabular cobbles. Occasional pockets (<250mm diameter) of firm clay. (WEATHERED SANDSTONE)	1.00			
			Below 1.5m depth: becoming difficult to excavate.				
			End of trial pit at 1.90 m	1.90			
Remarks 1. Prior to excavation a Cable Avoidance Tool survey was carried out. 2. The sides of the trial pit remained stable during excavation. 3. Groundwater was not apparent during excavation. 4. On completion the trial pit was backfilled with materials arising.							
Equipment/Methods JCB 3CX with 0.6m wide straight edged bucket.				Logged by A.Sw	JOB 9507	FIGURE	

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP4

DATE 28/03/2008

Co-ords 436826E 405477N

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
1D	0.50		MADE GROUND: Brown gravelly clay. Gravel is angular to subangular, fine to coarse of brick, concrete, ceramic and sandstone. (COHESIVE MADE GROUND)				
			At 0.9m depth: Concrete footing, 300mm wide, 200mm thick.	0.90			
2D	1.20		Orange brown, slightly clayey, very sandy, angular fine to coarse GRAVEL of sandstone with occasional angular tabular cobbles. Occasional pockets (<250mm diameter) of firm clay. (WEATHERED SANDSTONE)				
			Moderately strong, orange brown, fine to coarse grained SANDSTONE. Recovered as gravelly, angular tabular cobbles. (COAL MEASURES SANDSTONE) Unable to excavate below 1.6m depth. End of trial pit at 1.60 m	1.50 1.60			
Remarks 1. Prior to excavation a Cable Avoidance Tool survey was carried out. 2. The sides of the trial pit remained stable during excavation. 3. Groundwater was not apparent during excavation. 4. On completion the trial pit was backfilled with materials arising.							
Equipment/Methods JCB 3CX with 0.6m wide straight edged bucket.				Logged by A.Sw	JOB 9507	FIGURE	

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP5

DATE 28/03/2008

Co-ords 436842E 405446N

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
1D	0.40		MADE GROUND: Brown, gravelly clay. Gravel is angular to subangular, fine to coarse of brick, concrete and sandstone. (COHESIVE MADE GROUND)				
2D	0.70		Orange brown, slightly clayey, sandy, gravelly, angular tabular COBBLES of sandstone. (WEATHERED SANDSTONE)	0.50			
			Moderately strong, orange brown and grey, fine to coarse grained SANDSTONE. Recovered as angular tabular cobbles. (COAL MEASURES SANDSTONE)	1.30			
			Unable to excavate below 1.8m depth. End of trial pit at 1.80 m	1.80			
Remarks 1. Prior to excavation a Cable Avoidance Tool survey was carried out. 2. The sides of the trial pit remained stable during excavation. 3. Groundwater was not apparent during excavation. 4. On completion the trial pit was backfilled with materials arising.							
Equipment/Methods JCB 3CX with 0.6m wide straight edged bucket.				Logged by A.Sw	JOB 9507	FIGURE	

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP5A

DATE 31/03/2008

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
			MADE GROUND: Firm, brown gravelly clay. Gravel is angular to subrounded, fine to medium. Rare half bricks. (COHESIVE MADE GROUND)				
			Soft, orange and brown mottled, slightly sandy, slightly gravelly CLAY. Gravel is subangular, fine to coarse of sandstone. (COMPLETLEY WEATHERED COAL MEASURES)	0.50			
			Orange brown and grey mottled, slightly clayey, sandy to very sandy, angular to subangular, fine to coarse GRAVEL of sandstone. Occasional subangular, tabular cobbles. (WEATHERED SANDSTONE)	0.80			
			Orange brown and grey mottled, slightly clayey subangular tabular COBBLES of sandstone. (WEATHERED SANDSTONE)	1.30			
			Orange brown and grey mottled, slightly sandy CLAY. (COMPLETLEY WEATHERED SANDSTONE)	2.10			
			End of trial pit at 2.50 m	2.50			
Remarks 1. Prior to excavation a Cable Avoidance Tool Survey was carried out. 2. The sides of the trial pit remained stable during excavation. 3. Groundwater was not apparent during excavation 4. On completion the trial pit was backfilled with materials arising							
Equipment/Methods JCB 3CX with 0.6m wide tooth bucket.				Logged by LG	JOB 9507	FIGURE	

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP6

DATE 28/03/2008

Co-ords 436849E 405428N

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
1D	0.20		MADE GROUND: Brown, gravelly clay. Gravel is angular, fine to coarse of brick, concrete and sandstone. Rare whole bricks. (COHESIVE MADE GROUND)				
2D	1.00		Stiff, orange brown mottled grey sandy CLAY. (COMPLETELY WEATHERED SANDSTONE)	0.80			
			Stiff, orange brown mottled grey CLAY with occasional angular tabular cobbles of sandstone. (COMPLETELY WEATHERED SANDSTONE) Difficult to excavate below 1.7m depth. End of trial pit at 1.70 m	1.50 1.70			
Remarks 1. Prior to excavation a Cable Avoidance Tool survey was carried out. 2. The sides of the trial pit remained stable during excavation. 3. Groundwater was not apparent during excavation. 4. On completion the trial pit was backfilled with materials arising.							
Equipment/Methods JCB 3CX with 0.6m wide straight edged bucket.				Logged by A.Sw		JOB 9507	FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP7

DATE 28/03/2008

Co-ords 436851E 405410N

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
1D	0.00-1.30		MADE GROUND: ? Soft, dark brown, very sandy clay with much angular fine to coarse gravel of brick, concrete, clay pipe and sandstone. (COHESIVE MADE GROUND)				
2D	1.40		Firm, orange and light brown mottled sandy CLAY with occasional fine, subangular gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE) At 1.5m: Clay drainage pipe . Fast inflow which stopped after 2 minutes.	1.30 1.60			
			Stiff brown and grey mottled CLAY with some angular fine to coarse gravel of sandstone. (COMPLETLEY WEATHERED SANDSTONE) At 2.0m: Trial pit terminated on bedrock. End of trial pit at 2.00 m	2.00			

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit remained stable during excavation.
3. Groundwater was not apparent during excavation.
4. On completion the trial pit was backfilled with materials arising.

Equipment/Methods

JCB 3CX with 0.6m wide straight edged bucket.

Logged by

RW

JOB

9507

FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

DATE 31/03/2008

Co-ords

TP7A

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
			MADE GROUND: Soft, black sandy clay with gravel size fragments of wood, glass (up to 100mm), rags, half bricks, full bricks, slate, broken pipe and plastic. (GRANULAR MADE GROUND)				
			Firm to soft, orange and grey mottled, slightly sandy CLAY with subangular tabular gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE)	1.00			
			End of trial pit at 2.60 m	2.60			
Re marks							
Equipment/Methods JC3 3CX with 0.6m wide tooth bucket.				Logged by LG	JOB 9507	FIGURE	

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

DATE 28/03/2008

Co-ords 436877E 405372N

Sheet 1 of 1

TP8

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
1D	0.00-0.30		MADE GROUND: ? Soft, dark brown, sandy organic clay with some angular fine to coarse gravel and occasional cobble of brick and concrete. (REWORKED TOPSOIL)	0.30			
2D	0.60		? Stiff, orange and light brown mottled, slightly sandy CLAY with some angular fine to coarse gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE)	0.80			
			Moderately strong, orange brown, very thinly bedded SANDSTONE. (COAL MEASURES SANDSTONE)	1.00			
			At 1.0m: Trial pit terminated on sandstone bedrock. End of trial pit at 1.00 m				

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit were loose from 0.0 - 0.3m during excavation.
3. Groundwater was not apparent during excavation.
4. On completion the trial pit was backfilled with materials arising.

Equipment/Methods

JCB 3CX with 0.6m wide straight edged bucket.

Logged by

RW

JOB

9507

FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

DATE 28/03/2008

Co-ords 436791E 405370N

Sheet 1 of 1

TP9

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
1D	0.50-1.00		? Firm, orange brown sandy CLAY with some fine to medium gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE)				
			? Stiff, brown and orange mottled sandy CLAY with much angular fine to coarse gravel and occasional cobble of sandstone. Locally clayey gravel. (COMPLETELY WEATHERED SANDSTONE) From 0.5m: Difficult to excavate.	0.50			
			Moderately weak, orange brown, very thinly bedded to thickly laminated SANDSTONE. Recovered as angular tabular fine to coarse gravel in a clayey matrix. (COAL MEASURES SANDSTONE) At 1.5m: Slight seepage of groundwater. End of trial pit at 1.70 m	1.50 1.70			

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit remained stable during excavation.
3. Groundwater seepage was encountered at 1.5m during excavation.
4. On completion the trial pit was backfilled with materials arising.

Equipment/Methods

JCB 3CX with 0.6m wide straight edged bucket.

Logged by

RW

JOB

9507

FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP10

DATE 28/03/2008

Co-ords 436820E 405346N

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
1D	0.20		MADE GROUND: ? Soft, brown sandy clay with much angular fine to coarse gravel of brick, concrete, sandstone and occasional gravel size fragments of wood, plastic and metal. (COHESIVE MADE GROUND)	0.20			
2D	0.50		? Firm, orange brown sandy CLAY with some angular fine to coarse gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE)				
			Moderately weak to weak, brown, very thinly bedded SANDSTONE. (COAL MEASURES SANDSTONE)	1.10			
			At 1.3m: Trial pit terminated on sandstone bedrock. End of trial pit at 1.30 m	1.30			
Remarks 1. Prior to excavation a Cable Avoidance Tool survey was carried out. 2. The sides of the trial pit remained stable during excavation. 3. Groundwater was not apparent during excavation. 4. On completion the trial pit was backfilled with materials arising.							
Equipment/Methods JCB 3CX with 0.6m wide straight edged bucket.				Logged by RW	JOB 9507	FIGURE	

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP11

DATE 28/03/2008

Co-ords 436784E 405407N

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
1D	0.00-0.30		MADE GROUND: ? Soft, brown sandy clay with some angular fine to coarse gravel and occasional cobble of brick, concrete, limestone, sandstone and wood. (COHESIVE MADE GROUND)				
2D	0.30-1.40		MADE GROUND: ? Loose, reddish brown, very sandy, angular fine to coarse gravel of brick. (GRANULAR MADE GROUND)	0.30			
			At 1.1m: Steady inflow of groundwater.				
			? Stiff, orange and grey mottled CLAY with much angular fine to coarse gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE)	1.40			
			End of trial pit at 1.60 m	1.60			
Remarks 1. Prior to excavation a Cable Avoidance Tool survey was carried out. 2. The sides of the trial pit were loose from 0.3m - 1.4m during excavation. 3. Groundwater was encountered at 1.1m during excavation. 4. On completion the trial pit was backfilled with materials arising.							
Equipment/Methods JCB 3CX with 0.6m wide straight edged bucket.				Logged by RW		JOB 9507	FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP12

DATE 28/03/2008

Co-ords 436778E 405448N

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
1D	0.00-1.30		MADE GROUND: ? Firm, dark brown, very sandy clay with much angular fine to coarse gravel of brick, concrete and occasional cobble of brick and wood (wood <5%). (COHESIVE MADE GROUND)				
2D	1.50		? Stiff, orange and brown mottled sandy CLAY with occasional angular to subangular fine to coarse gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE)	1.30			
			Moderately weak to weak, orange brown, very thinly bedded SANDSTONE. Recovered as angular tabular coarse gravel in a clay matrix. (COAL MEASURES SANDSTONE)	2.10			
			End of trial pit at 2.20 m	2.20			
Remarks 1. Prior to excavation a Cable Avoidance Tool survey was carried out. 2. The sides of the trial pit remained stable during excavation. 3. Groundwater was not apparent during excavation. 4. On completion the trial pit was backfilled with materials arising.							
Equipment/Methods JCB 3CX with 0.6m wide straight edged bucket.				Logged by RW		JOB 9507	FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP13

DATE 28/03/2008

Co-ords 436764E 405480N

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
1D	0.00-1.30		MADE GROUND: ? Soft, dark brown sandy clay with much angular fine to coarse gravel of brick, limestone, clay pipe, concrete, chalk and tarmac. (COHESIVE MADE GROUND)				
				1.30			
2D	1.60		MADE GROUND: ? Soft, dark brown organic clay with occasional angular fine to coarse gravel of brick. (RELICT TOPSOIL)	1.50			
			? Stiff, brown and grey mottled CLAY with some angular to subangular fine to coarse gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE) At 1.7m: Steady inflow of groundwater, stopping after 2 minutes.				
			At 2.7m: Trial pit terminated on sandstone. End of trial pit at 2.70 m	2.70			
Remarks 1. Prior to excavation a Cable Avoidance Tool survey was carried out. 2. The sides of the trial pit remained stable during excavation. 3. Groundwater was encountered at 1.7m during excavation. 4. On completion the trial pit was backfilled with materials arising.							
Equipment/Methods JCB 3CX with 0.6m wide straight edged bucket.				Logged by RW		JOB 9507	FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP14

DATE 31/03/2008

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
1D	0.10		MADE GROUND: Blackish brown, slightly sandy, slightly gravelly clay with abundant rootlets. Gravel is subrounded, fine to coarse of mudstone, sandstone and quartz. (COHESIVE MADE GROUND)	0.20			
2D	0.40		Light brown, clayey, gravelly SAND. Gravel is angular fine to coarse of sandstone. (WEATHERED SANDSTONE)	0.50			
3D	0.60		Light brown mottled grey, gravelly, clayey SAND. Gravel is angular fine to coarse of tabular sandstone. (WEATHERED SANDSTONE)	0.80			
4D	1.00		Light brown mottled grey, slightly clayey, very sandy GRAVEL. Gravel is angular fine to coarse of tabular sandstone with many cobbles and some gravel sized pockets of clay. (WEATHERED SANDSTONE)				
			At 2.0m: Difficult to excavate further due to hard strata-possibly sandstone. End of trial pit at 2.00 m	2.00			
Remarks							
1. Prior to excavation a Cable Avoidance Tool survey was carried out. 2. The sides of the trial pit remained stable during excavation. 3. Groundwater was not apparent during excavation. 4. On completion the trial pit was backfilled with materials arising.							
Equipment/Methods				Logged by		JOB	FIGURE
JCB 3CX with 0.6m wide tooth bucket.				CP		9507	

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP15

DATE 31/03/2008

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
1D	0.30		MADE GROUND: Red mottled multicoloured, very sandy, angular fine to coarse gravel of brick, concrete, sandstone and mudstone. (BRICK FILL)	0.30			
			Light orangish brown, slightly gravelly, very clayey SAND. Gravel is angular fine to coarse of sandstone. (WEATHERED SANDSTONE)	0.50			
2D	1.20		Firm, light orangish brown mottled grey, very sandy, very gravelly CLAY. Gravel is angular, fine to coarse of tabular sandstone. (COMPLETELY WEATHERED SANDSTONE)				
3D	2.00		Dark brown, slightly clayey, very sandy, angular fine to coarse GRAVEL of sandstone. (WEATHERED SANDSTONE)	1.90			
			At 2.0m: Difficult to excavate further due to hard strata-possible sandstone End of trial pit at 2.40 m	2.40			
Remarks							
1. Prior to excavation a Cable Avoidance Tool survey was carried out. 2. The sides of the trial pit remained stable during excavation. 3. Groundwater was not apparent during excavation. 4. On completion the trial pit was backfilled with materials arising.							
Equipment/Methods JCB 3CX with 0.6m wide tooth bucket.				Logged by CP		JOB 9507	FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP16

DATE 31/03/2008

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
1D	0.50		MADE GROUND: Dark brown, sandy, very gravelly clay. Gravel is angular fine to coarse of sandstone, mudstone, brick, ceramic pipe and pottery. (COHESIVE MADE GROUND)				
2D	1.10		Firm, yellowish brown mottled light brown, sandy, gravelly CLAY. Gravel is angular, fine to medium of sandstone with occasional cobbles of tabular sandstone. (COMPLETELY WEATHERED SANDSTONE)	0.90			
3D	2.00		Stiff, brown mottled grey, slightly sandy, gravelly CLAY. Gravel is angular, fine to coarse of tabular sandstone with occasional tabular cobbles of sandstone. (COMPLETLEY WEATHERED SANDSTONE)	1.50			
			At 2.6m: Unable to excavate further due to hard strata-possible sandstone End of trial pit at 2.60 m	2.60			
Remarks 1. Prior to excavation a Cable Avoidance Tool survey was carried out. 2. The sides of the trial pit remained stable during excavation. 3. Groundwater was not apparent during excavation. 4. On completion the trial pit was backfilled with materials arising.							
Equipment/Methods JCB 3CX with 0.6m wide tooth bucket.				Logged by CP		JOB 9507	FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP17

DATE 31/03/2008

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	In-situ test	description	depth (m)	level (m)	ground water	legend
1D	0.30		MADE GROUND: Dark brown, slightly clayey, very gravelly sand. Gravel is angular fine to coarse of brick, sandstone, plastic, concrete and pottery. (GRANULAR MADE GROUND)				
2D	1.50		Yellowish brown, slightly clayey, very gravelly SAND with occasional cobbles of tabular sandstone. (WEATHERED SANDSTONE)	1.00			
3D	2.30		Brown, slightly clayey, very sandy, angular fine to coarse GRAVEL of tabular sandstone. (WEATHERED SANDSTONE)	1.90			
			At 2.6m: Unable to excavate further due to hard strata-possible sandstone. End of trial pit at 2.60 m	2.60			
Remarks 1. Prior to excavation a Cable Avoidance Tool survey was carried out. 2. The sides of the trial pit remained stable during excavation. 3. Groundwater was not apparent during excavation. 4. On completion the trial pit was backfilled with materials arising.							
Equipment/Methods JCB 3CX with 0.6m wide tooth bucket.				Logged by CP	JOB 9507	FIGURE	

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP18

DATE 31/03/2008

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
1D 1J	0.80		MADE GROUND: Blackish brown, slightly clayey, very gravelly sand. Gravel is angular to subangular fine to coarse of brick, plastic, ceramic, pottery and glass. Slight odour of sewage. (GRANULAR MADE GROUND)				
2D	1.80		Firm, orangish brown mottled light brown, sandy, gravelly CLAY. Gravel is angular, fine to medium of sandstone with occasional cobbles of tabular sandstone. (COMPLETELY WEATHERED SANDSTONE)	1.50			
3D	2.50		Orangish brown mottled greenish grey, clayey, sandy, angular fine to coarse GRAVEL of tabular sandstone with some cobbles of sandstone. (WEATHERED SANDSTONE)	2.10			
			At 3.0m: Unable to excavate further due to hard strata-possible sandstone End of trial pit at 3.00 m	3.00			
Remarks 1. Prior to excavation a Cable Avoidance Tool survey was carried out. 2. The sides of the trial pit remained stable during excavation. 3. Groundwater was not apparent during excavation. 4. On completion the trial pit was backfilled with materials arising.							
Equipment/Methods JCB 3CX with 0.6m wide tooth bucket.				Logged by CP		JOB 9507	FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP19

DATE 31/03/2008

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
1D	0.20		MADE GROUND: Dark brown, slightly sandy clay with frequent rootlets. (COHESIVE MADE GROUND)				
2D	0.50			0.60			
			Soft becoming firm, orangish brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded, fine to coarse of sandstone and mudstone. (COMPLETELY WEATHERED SANDSTONE)				
3D	1.10						
			Orangish brown mottled grey, sandy, very clayey angular fine to coarse GRAVEL of tabular sandstone with occasional cobbles of sandstone. (WEATHERED SANDSTONE)	1.80			
4D	2.20						
			At 2.4m: Difficult to excavate further due to hard strata-possible sandstone End of trial pit at 2.40 m	2.40			

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit remained stable during excavation.
3. Slight Groundwater seepage was encountered at 2.4m during excavation.
4. On completion the trial pit was backfilled with materials arising.

Equipment/Methods

JCB 3CX with 0.6m wide tooth bucket.

Logged by

CP

JOB

9507

FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP20

DATE 31/03/2008

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:25

sample no & type	depth (m)	in-situ test	description	depth (m)	level (m)	ground water	legend
1D	0.40		MADE GROUND: Dark blackish brown, slightly sandy, gravelly clay. Gravel is angular fine to coarse of brick, sandstone, concrete, pottery and ceramic pipe. (COHESIVE MADE GROUND)				
				0.60			
2D	1.10		MADE GROUND: Dark brown, slightly clayey, very sandy, angular fine to coarse gravel of brick, sandstone, metal wire (2mm diameter), wood fragments (0.1m x 0.1m), concrete blocks (0.2m x 0.2m x 0.1m) and metal poles (0.4m length, 0.05m diameter). (GRANULAR MADE GROUND)				
			At 1.2m: Household heating radiator. At 1.5m: Trial pit terminated due to instability. End of trial pit at 1.50 m	1.50			
Remarks 1. Prior to excavation a Cable Avoidance Tool survey was carried out. 2. The sides of the trial pit were unstable from 0.6m during excavation. 3. Groundwater was not apparent during excavation. 4. On completion the trial pit was backfilled with materials arising.							
Equipment/Methods JCB 3CX with 0.6m wide tooth bucket.				Logged by CP		JOB 9507	FIGURE

**APPENDIX G
WINDOW SAMPLE LOGS**

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

WS1

DATE 1 Apr 08

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:50

sample no & type	depth (m)	in-situ test	well/ backfill	description	depth (m)	level (m)	ground water	legend
1J	0.20-3.00			MADE GROUND: Black tarmac with fine to coarse gravel size aggregate. (TARMAC) MADE GROUND: Grey unreinforced concrete. Aggregate is subrounded fine to coarse of quartz. Air voids <5%, <5mm in diameter. (CONCRETE) MADE GROUND: Grey to yellow, angular to subangular, fine to coarse gravel of limestone. (SUB-BASE)	0.10 0.20			
				End of window sample hole at 3.00 m	3.00			

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.
2. Groundwater was not apparent during drilling.

Equipment/Methods

Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods.

Logged by

LG

JOB

9507

FIGURE

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

WS2

DATE 1 Apr 08

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:50

sample no & type	depth (m)	in-situ test	well/ backfill	description	depth (m)	level (m)	ground water	legend
				MADE GROUND: Grey unreinforced concrete. Aggregate is rounded to angular fine to coarse gravel of quartz. Air voids <5%, <5mm diameter. (CONCRETE)	0.17			
1J	0.80			Orange brown gravelly CLAY. Gravel is angular to subangular fine to coarse gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE)	1.10			
2J	1.50			Very stiff, orange brown sandy CLAY. (COMPLETELY WEATHERED SANDSTONE)	1.80			
				End of window sample hole at 1.83 m				
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during drilling.								
Equipment/Methods Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods.				Logged by LG	JOB 9507	FIGURE		

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

WS3

DATE 1 Apr 08

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:50

sample no & type	depth (m)	in-situ test	well/ backfill	description	depth (m)	level (m)	ground water	legend
1J	0.50			MADE GROUND: Grey unreinforced concrete. Aggregate is angular to subangular, fine to coarse of quartz. Air voids <5%, <5mm diameter. (CONCRETE) MADE GROUND: Black, angular medium to coarse gravel. (GRANULAR MADE GROUND) Orange and grey mottled, fine to coarse gravel of sandstone with locally soft clay pockets. (WEATHERED SANDSTONE) End of window sample hole at 0.85 m	0.20 0.30 0.85			
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during drilling.								
Equipment/Methods Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods.					Logged by LG		JOB 9507	FIGURE

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

WS4

DATE 1 Apr 08

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:50

sample no & type	depth (m)	in-situ test	well/ backfill	description	depth (m)	level (m)	ground water	legend
1B	0.00-0.19			MADE GROUND: Light brown unreinforced concrete. Aggregate is angular to rounded, fine to coarse of quartz. Air voids <5%, <5mm diameter. (CONCRETE) Orange clayey fine to coarse SAND with some angular to subangular gravel of sandstone. (WEATHERED SANDSTONE) Firm orange with some grey mottling, CLAY. (COMPLETELY WEATHERED SANDSTONE) End of window sample hole at 1.10 m	0.19			
1J	0.50							
2B	0.90				0.90 1.10			
Remarks								
1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during drilling.								
Equipment/Methods Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods.					Logged by LG		JOB 9507	FIGURE

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

WS5

DATE 1 Apr 08

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:50

sample no & type	depth (m)	in-situ test	well/ backfill	description	depth (m)	level (m)	ground water	legend
1J	0.30			MADE GROUND: Light brown unreinforced concrete. Aggregate is angular to rounded, fine to coarse of quartz. Air voids <5%, <5mm in diameter (CONCRETE) MADE GROUND: Soft, grey, orange mottled clay with angular to subangular gravel sized fragments of fine to coarse concrete limestone and brick . (COHESIVE MADE GROUND) Soft to firm, orange brown sandy CLAY. (COMPLETELY WEATHERED SANDSTONE) Stiff, orange and grey mottled sandy CLAY. (COMPLETELY WEATHERED SANDSTONE) End of window sample hole at 1.10 m	0.20			
2J	0.50				0.40			
					0.60			
					1.10			

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.
2. Groundwater was not apparent during drilling.

Equipment/Methods

Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods.

Logged by

LG

JOB

9507

FIGURE

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

WS6

DATE 1 Apr 08

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:50

sample no & type	depth (m)	in-situ test	well/ backfill	description	depth (m)	level (m)	ground water	legend
1J	0.60			MADE GROUND: Light brown unreinforced concrete. Aggregate is angular to rounded, fine to coarse of quartz. Air voids <5%, <5mm diamater. (CONCRETE)	0.15			
				MADE GROUND: Yellow, angular to subangular, medium to coarse gravel of limestone. (SUB-BASE)	0.35			
				Firm to stiff, orange and grey mottled sandy CLAY. (COMPLETELY WEATHERED SANDSTONE)				
				End of window sample hole at 2.00 m	2.00			
Remarks								
1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during drilling.								
Equipment/Methods Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods.					Logged by LG		JOB 9507	
							FIGURE	

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

WS7

DATE 1 Apr 08

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:50

sample no & type	depth (m)	in-situ test	well/ backfill	description	depth (m)	level (m)	ground water	legend
1B	0.00-0.17			MADE GROUND: Grey unreinforced concrete. Aggregate is subrounded of mixed lithologies. Air voids <5%, <5mm diameter. (CONCRETE)	0.17			
2J	0.60			Orange and grey mottled CLAY with angular to subangular cobbles of limestone and sandstone. (COMPLETELY WEATHERED SANDSTONE)	0.70			
				Very stiff, orange and grey mottled, sandy CLAY. (COMPLETELY WEATHERED SANDSTONE)				
				End of window sample hole at 1.90 m	1.90			

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.
2. Groundwater was not apparent during drilling.

Equipment/Methods

Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods.

Logged by

LG

JOB

9507

FIGURE

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

WS8

DATE 1 Apr 08

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:50

sample no & type	depth (m)	in-situ test	well/ backfill	description	depth (m)	level (m)	ground water	legend
1J	0.50			MADE GROUND: Brown unreinforced concrete. Aggregate is subrounded of sandstone and quartz. Air voids <5%, <5mm diameter. (CONCRETE)	0.16			
				Orange and grey, fine to coarse sandy CLAY with some (30%) gravel of sandstone and angular tabular sandstone. (COMPLETELY WEATHERED SANDSTONE) <i>End of window sample hole at 0.90 m</i>	0.90			
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during drilling.								
Equipment/Methods Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods.					Logged by LG		JOB 9507	FIGURE

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

WS9

DATE 1 Apr 08

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:50

sample no & type	depth (m)	in-situ test	well/ backfill	description	depth (m)	level (m)	ground water	legend
1J	0.30			MADE GROUND: Brown unreinforced concrete. Aggregate is subrounded of sandstone, and quartz. Air voids <5%, <5mm diameter. (CONCRETE)	0.15 0.40			
2J	0.90			MADE GROUND: Grey, angular to subangular, fine to coarse gravel of limestone. (SUB-BASE)	1.00			
				Orange and grey mottled sandy CLAY with occasional angular tabular fine to coarse gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE) <i>End of window sample hole at 1.00 m</i>				

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.
2. Groundwater was not apparent during drilling.

Equipment/Methods

Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods.

Logged by

LG

JOB

9507

FIGURE

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

DATE 1 Apr 08

Co-ords

Ground Level

WS10

Sheet 1 of 1

Scale 1:50

sample no & type	depth (m)	in-situ test	well/ backfill	description	depth (m)	level (m)	ground water	legend
1J	0.50			MADE GROUND: Grey unreinforced concrete. Aggregate is subrounded to rounded fine to coarse of quartz. Air voids <5%, <5mm diameter. (CONCRETE)	0.01			
				MADE GROUND: Black and red, sandy angular to subangular, fine to coarse gravel of brick, tarmac, ash and clinker and occasional cobbles of brick. (ASH & CLINKER)	0.80			
2J	1.50			Orange and grey mottled sandy CLAY with occasional angular tabular fine to coarse gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE) <i>End of window sample hole at 1.50 m</i>	1.50			

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.
2. Groundwater was not apparent during drilling.

Equipment/Methods

Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods.

Logged by

LG

JOB

9507

FIGURE

APPENDIX H
CHEMICAL TEST RESULTS

Grain sizes	
<0.063mm	Very Fine
0.1mm - 0.063mm	Fine
0.1mm - 2mm	Medium
2mm - 10mm	Coarse
>10mm	Very Coarse

[illegible]¹ Sample Description supplied by client

Preliminary

☒

ALcontrol Laboratories Analytical Services

^M MCERTS accredited

» Shown on prev. report

Matrix: SOLID
Location: LESLIE RD., BARNESLEY
Client Contact: Rachel Jowett

[illegible]

All results expressed on a dry weight basis.

Date 18.04.2008

☒

ISO 17025 accredited

^M MCERTS accredited

* Subcontracted test

» Shown on prev. report

Matrix: SOLID
Location: LESLIE RD., BARNESLEY
Client Contact: Rachel Jowett

All results expressed on a dry weight basis.

Date 18.04.2008

☒

» Shown on prev. report

Client Contact: Rachel Jowett

Date 18.04.2008

☒

- # ISO 17025 accredited
- M MCERTS accredited
- * Subcontracted test
- » Shown on prev. report

Matrix: SOLID
Location: LESLIE RD., BARNESLEY
Client Contact: Rachel Jowett

All results expressed on a dry weight basis.

Date 18.04.2008

☒

- # ISO 17025 accredited
- M MCERTS accredited
- * Subcontracted test
- » Shown on prev. report

Matrix: LEACHATE
Location: LESLIE RD., BARNESLEY
Client Contact: Rachel Jowett

Date 18.04.2008

Grain sizes	
<0.063mm	Very Fine
0.1mm - 0.063mm	Fine
0.1mm - 2mm	Medium
2mm - 10mm	Coarse
>10mm	Very Coarse

[illegible]

* These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials-whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

¹ Sample Description supplied by client

☒

- # ISO 17025 accredited
- M MCERTS accredited
- * Subcontracted test
- » Shown on prev. report

Matrix: SOLID
Location: LESLIE RD., BARNESLEY
Client Contact: Rachel Jowett

All results expressed on a dry weight basis.

Date 15.05.2008

Preliminary



- # ISO 17025 accredited
- M MCERTS accredited
- * Subcontracted test
- » Shown on prev. report

Matrix: SOLID
Location: LESLIE RD., BARNESLEY
Client Contact: Rachel Jowett

All results expressed on a dry weight basis.

Date 15.05.2008

☒

11

- # ISO 17025 accredited
- M MCERTS accredited
- * Subcontracted test
- » Shown on prev. report

Matrix: SOLID
Location: LESLIE RD., BARNESLEY
Client Contact: Rachel Jowett

All results expressed on a dry weight basis.

Date 15.05.2008

Report Key :

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03×10^{-7}

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

[illegible]

¹ Applies to Solid samples only. **DRY** indicates samples have been dried at 35°C. **NA** = not applicable.

APPENDIX I
GEOTECHNICAL TEST RESULTS



2139

Certificate of Analysis

Date: 18/04/2008

Certificate Number: 08-18664

Client: Professional Soils Laboratory Ltd
5/7 Hexthorpe Road
Hexthorpe
DN4 0AR

Our Reference: 08-18664

Client Reference: PSL08/0812

Contract Title: Leslie Road

Description: 8 soil samples

Date Received: 10/04/2008

Date Started: 10/04/2008

Date Completed: 18/04/2008

Test Procedures: Identified by prefix DETSn, details available upon request.

Notes: Observations and interpretations are outside the scope of UKAS accreditation
* denotes test not included in laboratory scope of accreditation
denotes test that holds MCERT accreditation
\$ denotes tests completed by approved subcontractors
I/S denotes insufficient sample to carry out test
N/S denotes that the sample is not suitable for testing
DETSM denotes tests carried out by DETS Midlands laboratory
Solid samples will be disposed 1 month and liquids 2 weeks
after the date of issue of this test certificate

Approved By:

Authorised Signatories:

Rob Brown
Business Manager

Page 1 of 3

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory

Summary of Chemical Analysis

Soil Samples

Our Ref: 08-18664
 Client Ref: PSL08/0812
 Contract Title: Leslie Road

			Lab No.	127709	127710	127711	127712	127713
			Sample Ref	TP1	TP4	TP6	TP8	TP10
			Depth	1.00	1.20	1.00	0.60	0.90
			Other Ref					
			Sample Type					
Test	Units	DETSxx						
Chloride Aqueous Extract	g/l	DETS 055	< 0.01	0.02	< 0.01	< 0.01	< 0.01	< 0.01
Nitrate Aqueous Extract as NO3	g/l	DETS 055	< 0.01	0.02	< 0.01	< 0.01	< 0.01	< 0.01
Magnesium Aqueous Extract	g/l	DETS 042	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sulphate Aqueous Extract as SO4	g/l	DETS 076#	0.06	0.16	0.06	0.08	0.04	0.04
pH		DETS 008#	7.2	8.2	8.4	7.7	8.2	

Summary of Chemical Analysis

Soil Samples

Our Ref: 08-18664
Client Ref: PSL08/0812
Contract Title: Leslie Road

		Lab No.	127714	127715	127716
		Sample Ref	TP14	TP19	TP19
		Depth	0.60	1.10	2.20
		Other Ref			
		Sample Type			
Test	Units	DETSxx			
Chloride Aqueous Extract	g/l	DETS 055	0.02	< 0.01	< 0.01
Nitrate Aqueous Extract as NO3	g/l	DETS 055	< 0.01	< 0.01	< 0.01
Magnesium Aqueous Extract	g/l	DETS 042	< 0.01	< 0.01	< 0.01
Sulphate Aqueous Extract as SO4	g/l	DETS 076#	0.05	0.04	0.05
pH		DETS 008#	8.4	8.3	7.6

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK



4043

Accredited to
ISO/IEC 17025:2005

Professional Soils Laboratory Ltd

Issue No: 002

Issue date: 09 November 2007

5/7 Hexthorpe Road
Hexthorpe
Doncaster
DN4 0AG

Contact: Mr A Watkins
Tel: +44 (0)870 240 1964
Fax: +44 (0)870 240 1965
E-Mail: awatkin@prosoils.co.uk
Website: www.prosoils.co.uk

Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
AGGREGATES	Particle size distribution - sieving method	BS EN 933-1:1997
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990
	Liquid limit - cone penetrometer	BS 1377-2:1990
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990
	Plastic limit	BS 1377-2:1990
	Plasticity index and liquidity index	BS 1377-2:1990
	Particle density - gas jar	BS 1377-2:1990
	Particle size distribution - wet sieving	BS 1377-2:1990
	Particle size distribution - dry sieving	BS 1377-2:1990
	Particle size distribution - sedimentation - pipette method	BS 1377-2:1990
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990



4043
Accredited to
ISO/IEC 17025:2005

Schedule of Accreditation

Issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

Professional Soils Laboratory Ltd

Issue No: 002 Issue date: 09 November 2007

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS for civil engineering purposes	California Bearing Ratio (CBR) (loads from 0.2 to 50 kN)	BS 1377-4:1990
	Moisture condition value (MCV)	BS 1377-4:1990
	MCV - natural moisture content	BS 1377:Part 4:1990
	MCV/moisture content relation	BS 1377:Part 4:1990
	Uniformity coefficient (221 2217)	BS 6100-2.2.1:1992
END		

(B.S. 1377 : PART 2 : 1990)

[illegible]

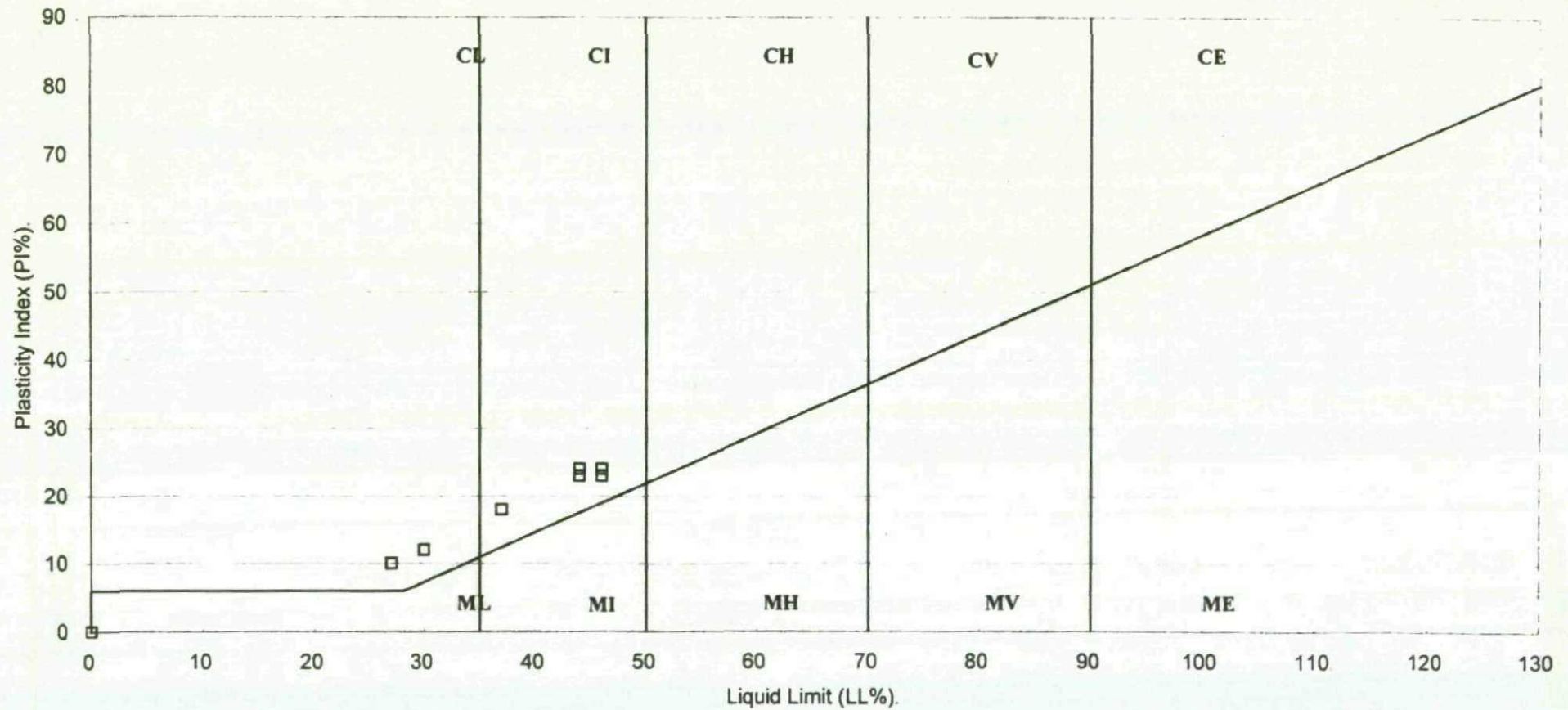
SYMBOLS : NP : Non Plastic

* : Liquid Limit and Plastic Limit Wet Sieved.

 Professional Soils Laboratory	Compiled by	Date	Checked by	Date	Approved by	Date
		15/4/07		15/4/08		17/4/08
LESLIE ROAD.						Contract No: PSL08/0817
						Client Ref: 9507

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.

(B.S.5930 : 1999)



PSL

Professional Soils Laboratory

Compiled by	Date	Checked by	Date	Approved by	Date
<i>[Signature]</i>	15/4/08	<i>[Signature]</i>	15/4/08	<i>[Signature]</i>	15/4/08
LESLIE ROAD.				Contract No: PSL08/0812	
				Client Ref: 9507	