Geo Environmental Group

Trial Pit Log

TrialPit No **TP01** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489670.90 - 99438.21 Level:	Date 23/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 × 0.90 Depth 3.50	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.20	D		0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.40			(Soft) orangish brown sandy gravelly CLAY and SILT. Gravel is medium sub-rounded quartzite and flint. (RIVER TERRACE DEPOSITS)
							0.70-1.60m With occasional boulder-sized lenses of (loose) sand and gravel.
	1.70	LB		1.60			(Medium dense) brown and grey clayey silty sandy fine to coarse GRAVEL of sub-rounded flint and quartzite. (RIVER TERRACE DEPOSITS)
							1.80-2.50m Becoming (loose)
				2.50			(Stiff) pinkish brown CLAY. (LONDON CLAY FORMATION)
				3.00			(Stiff) dark grey CLAY. (LONDON CLAY FORMATION)
				3.50			End of Pit at 3.500m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings.

Stability: Sides Stable

Trial Pit Log

Geo Environmental Group

TrialPit No **TP02** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489717.01 - 99429.70 Level:	Date 23/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 x 1.00 Depth 3.50	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.40			(Soft to firm) brown slightly sandy silty CLAY. (RIVER TERRACE DEPOSITS)
	1.00	HVP	24				*1.00-1.40m Becoming soft*
	1.00	HVP	24				
	1.00	HVP	24				
				1.40			(Soft) orangish brown sandy gravelly SILT. Gravel is medium sub-rounded quartzite and flint. (RIVER TERRACE DEPOSITS)
				2.00			(Loose) brownish silty medium SAND & GRAVEL of coarse sub-rounded quartzite and flint. (RIVER TERRACE DEPOSITS)
				2.40			(Medium dense) grey clayey silty gravelly medium SAND. Gravel is medium sub-rounded flint and quartzite. (RIVER TERRACE DEPOSITS)
				3.50			End of Pit at 3.500m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. No groundwater encountered. 2. HVP=Uncorrected Hand Vane Measurement. 3.Trial pit backfilling with sand from 2.00m, no progress after 20mins. 4. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.00m

Trial Pit Log

Geo Environmental Group

TrialPit No **TP03** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489762.15 - 99394.84 Level:	Date 25/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.90 x 0.90 Depth 4.00	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.30			(Soft to firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)
	1.00	HVP	74				*1.00-1.50m Becoming firm*
	1.00	HVP	74				
	1.00	HVP	74				
				1.50			(Soft) greenish and yellowish brown sandy slightly gravelly clayey SILT. Gravel is medium sub-rounded flint and quartzite. (RIVER TERRACE DEPOSITS)
				1.80			(Loose to medium dense) greenish brown clayey silty sandy fine to coarse GRAVEL of medium sub-rounded flint. (RIVER TERRACE DEPOSITS)
▼	2.00	LB					
				3.50			Stiff pinkish brown silty CLAY. (LONDON CLAY FORMATION)
	3.60	HVP	110				
	3.60	HVP	110				
	3.60	HVP	110				
				3.80			Firm dark brown CLAY. (LONDON CLAY FORMATION)
	3.85	HVP	76				
	3.85	HVP	76				
	3.85	HVP	76				
				4.00			End of Pit at 4.000m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.00m as moderate flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.00-3.50m

Geo Environmental Group

Trial Pit Log

TrialPit No **TP04** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489693.25 - 99368.88 Level:	Date 23/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.00 × 0.90, Depth 3.20	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.40			(Firm) orangish brown slightly sandy silty CLAY. (RIVER TERRACE DEPOSITS)
	1.00	HVP	90				*1.00-1.80m Becoming stiff*
	1.00	HVP	90				
	1.00	HVP	90				
				1.80			(Soft) orangish brown and greenish brown sandy slightly clayey SILT. (RIVER TERRACE DEPOSITS)
				2.10			(Loose to medium dense) greenish brown and yellowish brown silty slightly gravelly SAND. Gravel is medium sub-rounded flint and quartzite. (RIVER TERRACE DEPOSITS)
							2.40-3.00m With occasional boulder-sized lenses of clay
▼				3.00			Stiff pinkish brown CLAY. (LONDON CLAY FORMATION)
	3.10	HVP	90				
	3.10	HVP	90				
	3.10	HVP	90	3.20			End of Pit at 3.200m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.80m as slow flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.10-2.40m

Geo Environmental Group

Trial Pit Log

TrialPit No **TP05** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489817.93 - 99367.95 Level:	Date 25/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 x 0.90 Depth 4.00	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
	0.20	D		0.30			(Soft to firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)
	1.00	HVP	56				*1.00-1.50m Becoming firm*
	1.00	HVP	56				
	1.00	HVP	56				
	1.20	D					
	1.50	HVP	36				*1.50-2.00m Becoming soft*
	1.50	HVP	36				
	1.50	HVP	36				
▼				2.00			(Medium dense) bluish grey and grey silty slightly gravelly SAND. Gravel is medium sub-rounded flint and quartzite. (RIVER TERRACE DEPOSITS)
▽				2.20			(Loose to medium dense) yellow and yellowish brown silty SAND & GRAVEL of medium sub-rounded flint and quartzite. (RIVER TERRACE DEPOSITS)
				3.40			Firm pinkish brown silty CLAY. (LONDON CLAY FORMATION)
	3.60	HVP	70				
	3.60	HVP	70				
	3.60	HVP	70				
				4.00			End of Pit at 4.000m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.50m as moderate flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.50-3.50m

Trial Pit Log

Geo Environmental Group			TrialPit No **TP06** Sheet 1 of 1
Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489768.64 - 99356.03 Level:	Date 25/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 × 0.90 Depth 4.00	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.30			(Soft to firm) brown silty CLAY. (RIVER TERRACE DEPOSITS)
	1.00	HVP	36				*1.00-1.60m Becoming soft*
	1.00	HVP	36				
	1.00	HVP	36				
	1.20	LB					
	1.60	HVP	56				*1.60-1.90m Becoming firm*
	1.60	HVP	56				
	1.60	HVP	56				
				1.90			(Soft) yellowish and orangish brown sandy gravelly clayey SILT. Gravel is coarse sub-rounded quartzite and flint. (RIVER TERRACE DEPOSITS)
▼							*2.30-2.80m With occasional lenses of sand*
				2.80			(Loose to medium dense) yellowish brown silty gravelly SAND. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)
				3.50			Stiff pinkish brown CLAY. (LONDON CLAY FORMATION)
	3.60	HVP	104				
	3.60	HVP	104				
	3.60	HVP	104				
				4.00			End of Pit at 4.000m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.50m as slow flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.80-3.50m

Geo Environmental Group

Trial Pit Log

TrialPit No **TP08** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489781.24 - 99327.82 Level:	Date 23/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 x 0.90 Depth 3.90	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.30			(Soft to firm) orangish brown slightly sandy silty CLAY. (RIVER TERRACE DEPOSITS)
	1.00	HVP	50				*1.00-1.50m Becoming firm*
	1.00	HVP	50				
	1.00	HVP	50				
	1.50	HVP	110				*1.50-1.80m Becoming stiff*
	1.50	HVP	110				
	1.50	HVP	110				
				1.80			(Firm) greenish brown clayey SILT. (RIVER TERRACE DEPOSITS)
▼				2.40			Very soft greyish brown sandy gravelly SILT. Gravel is medium sub-rounded flint and quartzite. (RIVER TERRACE DEPOSITS)
	2.50	PP	PP=0.00				
	2.50	PP	PP=0.00				
	2.50	PP	PP=0.00				
				2.80			(Loose) yellowish brown silty gravelly SAND. Gravel is sub-rounded flint and quartzite. (RIVER TERRACE DEPOSITS)
				3.90			End of Pit at 3.900m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.50m as slow flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. PP = Pocket Penetrometer measurement in kPa. 4. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.50-3.90m

Trial Pit Log

Geo Environmental Group

TrialPit No **TP09** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489713.66 - 99330.96 Level:	Date 23/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 x 0.90 Depth 3.90	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown silty slightly sandy CLAY. (TOPSOIL)
				0.30			(Soft to firm) dark reddish brown slightly sandy silty CLAY. (RIVER TERRACE DEPOSITS)
	1.00	HVP	56				*1.00-1.80m Becoming firm*
	1.00	HVP	56				
	1.00	HVP	56				
	1.80	HVP	124				*1.80-2.30m Becoming stiff*
	1.80	HVP	124				
	1.80	HVP	130				
				2.30			(Medium dense) white and brown silty gravelly SAND. Gravel is fine chalk and flint. (RIVER TERRACE DEPOSITS)
				2.50			(Medium dense) greenish brown clayey silty gravelly SAND with occasional lenses of stiff pinkish brown clay. Gravel is medium sub-rounded flint. (RIVER TERRACE DEPOSITS)
▼							
				3.60			(Stiff) pinkish brown CLAY. (LONDON CLAY FORMATION)
	3.65	HVP	102				
	3.65	HVP	104				
	3.65	HVP	106				
				3.90			End of Pit at 3.900m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 3.00m as slow flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Sides Stable

Geo Environmental Group

Trial Pit Log

TrialPit No **TP10** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489756.04 - 99298.21 Level:	Date 23/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 x 1.00 Depth 4.00	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	D		0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.40			(Firm) orangish brown slightly sandy silty CLAY. (RIVER TERRACE DEPOSITS)
	0.80	HVP	90				*0.80-1.50m Becoming stiff*
	0.80	HVP	90				
	0.80	HVP	90				
	1.20	D					
	1.50	HVP	20				*1.50-2.00m Becoming very soft to soft*
	1.50	HVP	20				
	1.50	HVP	20				
	2.00	HVP	16	2.00			Very soft greenish brown and brown SILT/CLAY. (RIVER TERRACE DEPOSITS)
	2.00	HVP	16				
▼	2.00	HVP	16				
				2.60			(Loose) yellowish brown slightly clayey silty gravelly SAND. Gravel is medium sub-angular flint and quartzite. (RIVER TERRACE DEPOSITS)
				4.00			End of Pit at 4.000m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.50m as moderate flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.80-4.00m

Geo Environmental Group

Trial Pit Log

TrialPit No **TP11** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489721.29 - 99254.39 Level:	Date 25/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 × 0.90 Depth 3.50	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.30			(Soft) brown silty CLAY. (RIVER TERRACE DEPOSITS)
	1.00	HVP	56				
	1.00	HVP	58				*1.00-1.60m Becoming firm*
	1.00	HVP	70				
	1.60	HVP	16				
	1.60	HVP	16				*1.60-2.00m Becoming very soft*
	1.60	HVP	16				
				2.00			(Soft) yellowish brown and brown sandy clayey SILT. (RIVER TERRACE DEPOSITS)
▼				2.20			(Medium dense) yellow and yellowish brown silty SAND. (RIVER TERRACE DEPOSITS)
▼							
				3.00			(Loose) yellow SAND & GRAVEL of fine sub-angular flint and quartzite. (RIVER TERRACE DEPOSITS)
				3.50			End of Pit at 3.500m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.20m as very slow flow and 2.5m as fast flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.80-3.50m

Geo Environmental Group

Trial Pit Log

TrialPit No **TP12** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489739.04 - 99204.94 Level:	Date 25/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 × 0.90 Depth 4.00	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.30			(Soft to firm) yellowish brown silty CLAY. (RIVER TERRACE DEPOSITS)
	0.80	HVP	44				
	0.80	HVP	44				*0.80-1.50m Becoming firm*
	0.80	HVP	44				
				1.50			Stiff brown slightly gravelly silty CLAY. (RIVER TERRACE DEPOSITS)
	1.60	HVP	84				
	1.60	HVP	84				
▼	1.60	HVP	84				
				2.00			(Loose to medium dense) yellowish brown and yellow very silty gravelly SAND. Gravel is fine sub-rounded flint and quartzite. (RIVER TERRACE DEPOSITS)
							2.40-3.60m With occasional lenses of (very soft) silt
				3.60			Stiff pinkish brown CLAY. (LONDON CLAY FORMATION)
	3.70	HVP	90				
	3.70	HVP	90				
	3.70	HVP	92				
				4.00			End of Pit at 4.000m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.00m as moderate inflow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 1.80-3.60m

Geo Environmental Group

Trial Pit Log

TrialPit No **TP13** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489676.75 - 99224.55 Level:	Date 25/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 × 0.90 Depth 4.00	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.30			(Soft to firm) brown silty CLAY. (RIVER TERRACE DEPOSITS)
	1.20	LB					
	1.20	HVP	36				
	1.20	HVP	36				
	1.20	HVP	36				
							1.20-1.80m Becoming soft
				1.80			(Soft) orangish brown and brown sandy gravelly SILT. Gravel is medium sub-rounded flint. (RIVER TERRACE DEPOSITS)
							2.00-2.20m With occasional lenses of sand
				2.20			(Loose to medium dense) yellowish brown very silty gravelly SAND. Gravel is fine sub-rounded flint. (RIVER TERRACE DEPOSITS)
							2.80-3.90m Becoming greyish brown
	3.90	HVP	58	3.90			Stiff pinkish brown CLAY. (LONDON CLAY FORMATION)
	3.90	HVP	86	4.00			End of Pit at 4.000m
	3.90	HVP	90				

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. No groundwater encountered. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Sides Stable

Trial Pit Log

Geo Environmental Group

TrialPit No **TP14** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489699.40 - 99190.31 Level:	Date 25/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 × 0.90 Depth 3.80	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Soft) dark brown slightly sandy silty CLAY. (TOPSOIL)
	0.20	D		0.30			(Soft) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)
	0.90	HVP	40				*0.90-1.20m Becoming soft to firm*
	0.90	HVP	40				
	0.90	HVP	40				
	1.00	D					*1.20-2.30m Becoming firm*
	1.20	HVP	50				
	1.20	HVP	56				
	1.20	HVP	56				
▼							
▼				2.30			(Loose to medium dense) white and yellowish brown silty gravelly SAND. Gravel is medium sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)
				3.30			(Stiff) pinkish brown CLAY. (LONDON CLAY FORMATION)
	3.50	HVP	130				
	3.50	HVP	136				
	3.50	HVP	136				
				3.80			End of Pit at 3.800m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.00m and 2.30m as moderate flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.30-3.50m

Geo Environmental Group

Trial Pit Log

TrialPit No **TP15** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489634.39 - 99232.57 Level:	Date 22/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 × 0.90 Depth 3.90	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Soft) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.30			(Firm) orangish brown slightly sandy silty CLAY. (RIVER TERRACE DEPOSITS)
	1.00	HVP	76				*1.00-1.40m Becoming stiff*
	1.00	HVP	78				
	1.00	HVP	78				
							1.40-2.10m Becoming (soft)
	1.50	HVP	30				
	1.50	HVP	30				
	1.50	HVP	30				
				2.10			Firm greenish grey and white very sandy clayey SILT. (RIVER TERRACE DEPOSITS)
	2.20	HVP	64				
	2.20	HVP	64				
	2.20	HVP	64				
				2.80			(Loose to medium dense) brown and greenish brown silty gravelly SAND. Gravel is medium sub-angular flint. (RIVER TERRACE DEPOSITS)
							3.00-3.60m Becoming grey
				3.60			(Stiff) pinkish brown CLAY. (LONDON CLAY FORMATION)
				3.90			End of Pit at 3.900m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. No groundwater encountered. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.80-3.60m

Trial Pit Log

Geo Environmental Group

TrialPit No **TP16** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489612.85 - 99191.05 Level:	Date 22/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 x 1.00 Depth 3.80	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.40			(Soft to firm) orangish brown slightly sandy silty CLAY. (RIVER TERRACE DEPOSITS)
	0.80	HVP	36				*0.80-1.50m Becoming soft*
	0.80	HVP	36				
	0.80	HVP	42				
	1.50	HVP	50				*1.50-2.00m Becoming firm*
	1.50	HVP	50				
	1.50	HVP	50				
				2.00			Firm greenish brown and white very sandy slightly gravelly silty CLAY with occasional boulder-sized pockets of coarse sand. Gravel is coarse sub-angular flint. (RIVER TERRACE DEPOSITS)
	2.30	HVP	50				
	2.30	HVP	52				
▼	2.30	HVP	54				
	3.20	HVP	142	3.20			Stiff pinkish brown CLAY. (LONDON CLAY FORMATION)
	3.20	HVP	144				
	3.20	HVP	144				
				3.80			End of Pit at 3.800m

Remarks: 1. Groundwater encountered at 2.50m as moderate flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Sides Stable

Geo Environmental Group

Trial Pit Log

TrialPit No **TP17** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489662.43 - 99136.67 Level:	Date 22/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.00 × 1.00 Depth 3.90	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.50			(Firm) brown silty CLAY. (RIVER TERRACE DEPOSITS)
	0.80	HVP	102				*0.80-1.00m Becoming stiff*
	0.80	HVP	104				
	0.80	HVP	104				
	1.00	HVP	30	1.00			Soft brown clayey SILT. (RIVER TERRACE DEPOSITS)
	1.00	HVP	32				
	1.00	HVP	32				
				2.10			Stiff white and grey sandy silty CLAY with numerous boulder-sized lenses of white gravelly sand. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)
	2.20	HVP	96				
	2.20	HVP	96				
▼	2.20	HVP	96				
				2.80			(Loose to medium dense) white gravelly silty coarse SAND. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)
							3.00-3.90m Becoming (medium dense) and brown
				3.90			End of Pit at 3.900m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.80m as moderate flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 1.50m

Trial Pit Log

Geo Environmental Group

TrialPit No **TP18** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489693.00 - 99103.00 Level:	Date 24/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 × 0.90 Depth 3.60	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.40			Very soft brown silty CLAY. (RIVER TERRACE DEPOSITS)
	0.50	HVP	16				
	0.50	HVP	16				
	0.50	HVP	16				
	0.90	HVP	76				*0.90-1.50m Becoming stiff*
	0.90	HVP	76				
	0.90	HVP	76				
				1.50			Firm brown slightly gravelly clayey SILT. (RIVER TERRACE DEPOSITS)
	1.60	HVP	56				
	1.60	HVP	56				
▼	1.60	HVP	56				
				1.90			(Loose) white clayey gravelly medium SAND. Gravel is medium sub-angular flint, chalk and quartzite. (RIVER TERRACE DEPOSITS)
				3.60			End of Pit at 3.600m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 1.80m as slow flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 1.50m. Collapsing to 2.50m at 3.50m

Trial Pit Log

TrialPit No **TP19** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489576.63 - 99143.85 Level:	Date 22/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.00 × 2.50 Depth 3.50	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.40			(Soft to firm) brown slightly sandy silty CLAY. (RIVER TERRACE DEPOSITS)
	0.80	HVP	50				*0.80-2.00m Becoming firm*
	0.80	HVP	50				
	0.80	HVP	50				
▼				2.00			(Soft) light brown, white and yellowish brown sandy gravelly SILT. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)
				3.50			End of Pit at 3.500m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.00m as slow flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 1.00m, becoming very unstable from 2.00-3.50m

Geo Environmental Group

Trial Pit Log

TrialPit No **TP20** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489621.37 - 99030.71 Level:	Date 25/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.00 x 0.90 Depth 4.00	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
	0.20	D					
				0.40			(Soft to firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)
	1.00	HVP	64				*1.00-1.80m Becoming firm*
	1.00	HVP	64				
	1.00	HVP	64				
	1.20	D					
▼				1.80			(Loose to medium dense) yellowish brown and white silty gravelly SAND. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)
							2.50-4.00m Becoming brown and grey
				4.00			End of Pit at 4.000m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 1.80m as moderate flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable below 1.80m

Geo Environmental Group

Trial Pit Log

TrialPit No **TP21** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489546.33 - 99075.71 Level:	Date 24/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 3.00 x 0.90 Depth 3.90	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.30			(Soft to firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)
	1.00	D					
	1.00	HVP	76				*1.00-1.50m Becoming stiff*
	1.00	HVP	76				
	1.00	HVP	76				
				1.50			(Medium dense) yellowish brown silty SAND. (RIVER TERRACE DEPOSITS)
				1.80			(Loose to medium dense) white and grey silty gravelly SAND. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)
▼							
				3.50			Stiff pinkish brown CLAY. (LONDON CLAY FORMATION)
	3.60	HVP	78				
	3.60	HVP	78				
	3.60	HVP	78				
				3.90			End of Pit at 3.900m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.40m as moderate flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.40-3.50m

Geo Environmental Group

Trial Pit Log

TrialPit No
TP22
Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489499.44 - 99123.46 Level:	Date 24/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 x 0.90 Depth 4.00	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.40			(Firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)
							0.90-2.00m Becoming soft
	1.00	HVP	36				
	1.00	HVP	36				
	1.50	HVP	36				
	1.50	HVP	36				
	1.50	HVP	36				
				2.00			(Soft) yellowish brown sandy SILT. (RIVER TERRACE DEPOSITS)
▼				2.50			(Loose to medium dense) yellowish brown and white silty gravelly SAND. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)
							2.80-3.60m Becoming brown
				3.60			(Firm to stiff) pinkish brown CLAY. (LONDON CLAY FORMATION)
				4.00			End of Pit at 4.000m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.40m as moderate flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.00-3.60m

Trial Pit Log

Geo Environmental Group

TrialPit No **TP23** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489526.07 - 99190.49 Level:	Date 22/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.00 x 9.00 Depth 4.00	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.30			(Soft to firm) orangish brown slightly sandy silty CLAY. (RIVER TERRACE DEPOSITS)
	1.00	D					
				2.20			(Firm) greyish brown sandy gravelly silty CLAY. Gravel is medium sub-angular flint. (RIVER TERRACE DEPOSITS)
▼				2.90			(Loose to medium dense) white and brown gravelly coarse SAND. Gravel is fine angular flint and occasional chalk. (RIVER TERRACE DEPOSITS)
				3.70			(Stiff) pinkish brown CLAY. (LONDON CLAY FORMATION)
				4.00			End of Pit at 4.000m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.80m as slow flow. 2. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.00-3.60m

Geo Environmental Group

Trial Pit Log

TrialPit No **TP24** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489577.47 - 99178.89 Level:	Date 22/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 x 0.90 Depth 4.00	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
	0.20	D		0.30			(Soft) brown slightly sandy silty CLAY. (RIVER TERRACE DEPOSITS)
	1.00	D					*1.00-1.50m Becoming very soft*
	1.00	HVP	16				
	1.00	HVP	16				
	1.00	HVP	16				*1.50-1.80m Becoming (firm)*
	1.80	HVP	116				*1.80-2.00m Becoming stiff*
	1.80	HVP	116				
	1.80	HVP	116				
				2.00			Stiff greyish brown sandy gravelly silty CLAY. Gravel is coarse sub-angular flint and quartzite. (RIVER TERRACE DEPOSITS)
	2.10	HVP	110				
	2.10	HVP	110				
	2.10	HVP	110				
				2.60			(Loose to medium dense) grey and brown silty low cobble content coarse SAND. Cobbles are sub-angular flint. (RIVER TERRACE DEPOSITS)
				3.60			Stiff pinkish brown CLAY. (LONDON CLAY FORMATION)
	3.70	HVP	130				
	3.70	HVP	130				
	3.70	HVP	130				
				4.00			End of Pit at 4.000m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. No groundwater encountered. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.00-3.20m

Geo Environmental Group

Trial Pit Log

TrialPit No **TP25** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489555.93 - 99224.79 Level:	Date 22/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.00 × 0.90 Depth 3.90	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.30			Firm brown silty CLAY. (RIVER TERRACE DEPOSITS)
	1.00	HVP	56				
	1.00	HVP	56				
	1.00	HVP	56				
				1.80			Firm yellowish brown and white sandy slightly gravelly silty CLAY. Gravel is medium sub-angular flint. (RIVER TERRACE DEPOSITS)
	2.00	HVP	58				
	2.00	HVP	62				
▼	2.00	HVP	76				
							2.80-3.00m With occasional boulder-sized pockets of silt and sand
				3.00			(Loose to medium dense) brown clayey silty gravelly SAND. Gravel is medium sub-angular flint and quartzite. (RIVER TERRACE DEPOSITS)
				3.40			Stiff pinkish brown silty CLAY. (LONDON CLAY FORMATION)
	3.50	HVP	130				
	3.50	HVP	130				
	3.50	HVP	130				
				3.90			End of Pit at 3.900m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.50m as moderate flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Sides Stable

Geo Environmental Group

Trial Pit Log

TrialPit No **TP26** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489516.64 - 99232.35 Level:	Date 22/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.80 x 1.20 Depth 3.90	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.30			Firm brown slightly gravelly silty CLAY. Gravel is fine sub-angular flint and quartzite. (RIVER TERRACE DEPOSITS)
	0.80	HVP	48				
	0.80	HVP	50				
	0.80	HVP	50				
	1.00	LB					
▼				1.40			(Loose to medium dense) orangish brown and grey clayey gravelly medium SAND. Gravel is medium sub-rounded flint and quartzite. (RIVER TERRACE DEPOSITS)
							2.10-3.10m With occasional boulder-sized pockets of clay and medium cobble content of sub-angular flint.
				3.10			(Stiff) pinkish brown CLAY. (LONDON CLAY FORMATION)
	3.40	HVP	150				*3.40-3.60m Becoming stiff to very stiff*
	3.40	HVP	150				
	3.40	HVP	150				
				3.60			(Stiff) dark grey CLAY. (LONDON CLAY FORMATION)
				3.90			End of Pit at 3.900m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 1.60m as moderate flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 1.60-3.10m

Geo Environmental Group

Trial Pit Log

TrialPit No **TP27** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489558.06 - 99309.74 Level:	Date 22/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.80 × 1.00 Depth 4.00	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	D		0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.40			(Firm) orangish brown slightly gravelly silty CLAY. Gravel is fine sub-rounded quartzite. (RIVER TERRACE DEPOSITS)
	1.00	D					*1.00-1.80m Becoming stiff*
	1.00	HVP	90				
	1.00	HVP	90				
	1.00	HVP	90				
	1.85	HVP	64	1.80			Firm brown, white and yellowish brown sandy slightly gravelly silty CLAY. Gravel is medium sub-rounded quartzite and flint. (RIVER TERRACE DEPOSITS)
	1.85	HVP	64				
	1.85	HVP	70	2.00			(Loose) yellowish brown and white clayey silty gravelly SAND with occasional cobble-sized pockets of (soft) clay. Gravel is medium sub-rounded quartzite. (RIVER TERRACE DEPOSITS)
	3.20	HVP	90	3.20			Stiff pinkish brown CLAY. (LONDON CLAY FORMATION)
	3.20	HVP	90				
	3.20	HVP	90				
				3.80			(Stiff) dark grey CLAY. (LONDON CLAY FORMATION)
				4.00			End of Pit at 4.000m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. No groundwater encountered. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.50-3.20m

Geo Environmental Group

Trial Pit Log

TrialPit No **TP28** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489568.72 - 99278.44 Level:	Date 22/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 × 0.90 Depth 4.00	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.30			(Soft to firm) orangish brown slightly gravelly silty CLAY. Gravel is fine sub-angular quartzite and flint. (RIVER TERRACE DEPOSITS)
	1.00	HVP	16				*1.00-1.60m Becoming soft*
	1.00	HVP	24				
	1.00	HVP	30				
▼				1.60			(Loose) greenish grey clayey silty slightly gravelly medium SAND. Gravel is medium sub-angular flint. (RIVER TERRACE DEPOSITS)
				2.40			(Medium dense) dark brown very clayey silty gravelly medium SAND. Gravel is medium sub-angular flint and quartzite. (RIVER TERRACE DEPOSITS)
	3.60	HVP	110	3.50			Stiff pinkish brown CLAY. (LONDON CLAY FORMATION)
	3.60	HVP	110				
	3.60	HVP	110	3.70			Stiff dark brown CLAY. (LONDON CLAY FORMATION)
				4.00			End of Pit at 4.000m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 1.60m as moderate flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 1.60-2.40m

Geo Environmental Group

Trial Pit Log

TrialPit No **TP29** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489559.58 - 99349.87 Level:	Date 22/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 × 1.50 Depth 3.60	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Soft) brown slightly gravelly silty CLAY. Gravel is fine sub-angular quartzite and flint. (TOPSOIL)
				0.40			(Soft to firm) orangish brown sandy silty CLAY. (RIVER TERRACE DEPOSITS)
	0.80	HVP	36				
	0.80	HVP	36				*0.80-1.50m Becoming soft*
	0.80	HVP	38				
	1.50	HVP	16				
	1.50	HVP	16				*1.50-2.40m Becoming very soft*
	1.50	HVP	16				
▼				2.40			(Soft) brown, white and yellowish brown sandy slightly gravelly low cobble content silty CLAY with occasional boulder sized pockets of sand and cobbles. Gravel and cobbles are medium sub-rounded flint and quartzite. (RIVER TERRACE DEPOSITS)
				2.60			Stiff pinkish brown CLAY. (LONDON CLAY FORMATION)
	2.80	HVP	130				
	2.80	HVP	130				
	2.80	HVP	130				
				3.00			Stiff dark grey CLAY. (LONDON CLAY FORMATION)
	3.20	HVP	110				
	3.20	HVP	110				
	3.20	HVP	110				
				3.60			End of Pit at 3.600m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.40m as moderate flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.50-2.60m

Trial Pit Log

Geo Environmental Group

TrialPit No **TP30** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489505.01 - 99016.90 Level:	Date 24/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 x 0.90 Depth 4.00	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
	0.20	D					
				0.40			(Firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)
							0.80-1.80m Becoming (soft)
	1.00	D					
	1.20	LB					
▼				1.80			(Loose to medium dense) white and yellowish brown silty gravelly medium SAND. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)
							2.50-3.50m Becoming brown
				3.50			Stiff pinkish brown CLAY. (LONDON CLAY FORMATION)
	3.60	HVP	76				
	3.60	HVP	76				
	3.60	HVP	76				
				4.00			End of Pit at 4.000m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.00m as moderate flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.00-2.50m

Trial Pit Log

Geo Environmental Group

TrialPit No **TP31** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489481.43 - 99074.66 Level:	Date 24/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 × 0.90, Depth 4.00	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.40			(Firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)
	0.80	HVP	16				*0.80-1.60m Becoming very soft to soft*
	0.80	HVP	20				
	0.80	HVP	24				
	1.50	HVP	36				
	1.50	HVP	36				
	1.50	HVP	36	1.60			(Loose to medium dense) white silty gravelly SAND. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)
▼							*2.00-3.40m Becoming orangish brown and brown*
	3.50	HVP	84	3.40			Stiff pinkish brown CLAY. (LONDON CLAY FORMATION)
	3.50	HVP	84				
	3.50	HVP	84				
				4.00			End of Pit at 4.000m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.00m as moderate flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.50-3.40m

Trial Pit Log

Geo Environmental Group

TrialPit No **TP32** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489449.73 - 99111.01 Level:	Date 24/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 × 0.90, Depth 3.90	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.45			(Soft to firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)
	0.80	HVP	72				*0.80-1.10m Becoming firm*
	0.80	HVP	76				
	0.80	HVP	76				
	1.10	HVP	30				*1.10-1.50m Becoming soft*
	1.10	HVP	32				
	1.10	HVP	36				
	1.40	HVP	36				
	1.40	HVP	36				
	1.40	HVP	36	1.50			(Loose to medium dense) yellowish brown and brown very silty gravelly SAND. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)
▼							
				2.30			(Loose to medium dense) dark brown medium silty gravelly SAND. Gravel is medium sub-rounded flint. (RIVER TERRACE DEPOSITS)
							2.50-3.50m Becoming (loose)
▽							
				3.50			Stiff pinkish brown CLAY. (LONDON CLAY FORMATION)
	3.60	HVP	76				
	3.60	HVP	76				
	3.60	HVP	76				
				3.90			End of Pit at 3.900m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.60m as moderate flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.50-3.50m

Geo Environmental Group

Trial Pit Log

TrialPit No **TP34** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489571.53 - 98977.81 Level:	Date 25/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 × 0.90 Depth 4.00	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.30			(Firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)
							0.70-1.30m Becoming soft
	1.00	HVP	30				
	1.00	HVP	30				
	1.00	HVP	30				
				1.30			Very soft grey and brown sandy clayey SILT. (RIVER TERRACE DEPOSITS)
	1.50	HVP	10				
	1.50	HVP	10				
	1.50	HVP	10				
▼				2.00			(Loose to medium dense) white and grey silty gravelly SAND. Gravel is medium sub-angular chalk and flint. (RIVER TERRACE DEPOSITS)
				3.40			Stiff pinkish brown CLAY. (LONDON CLAY FORMATION)
	3.50	HVP	90				
	3.50	HVP	90				
	3.50	HVP	90				
				4.00			End of Pit at 4.000m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.00m as moderate flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.00-3.60m

Trial Pit Log

Geo Environmental Group

TrialPit No **TP35** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489469.52 - 98924.03 Level:	Date 24/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.00 x 0.90 Depth 4.00	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.30			(Soft) yellowish brown SILT/CLAY. (RIVER TERRACE DEPOSITS)
				0.50			Firm brown silty CLAY. (RIVER TERRACE DEPOSITS)
	0.80	HVP	44				
	0.80	HVP	44				
	0.80	HVP	46				
▼				2.00			(Soft) white and yellowish brown gravelly sandy SILT. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)
				2.70			Soft brown silty CLAY. (LONDON CLAY FORMATION)
	2.80	HVP	18				
	2.80	HVP	36				
	2.80	HVP	42				
	3.20	HVP	76				*3.20-4.00m Becoming stiff*
	3.20	HVP	76				
	3.20	HVP	76				
				4.00			End of Pit at 4.000m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.00m as slow flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.00m

Trial Pit Log

Geo Environmental Group

TrialPit No **TP36** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489469.00 - 98980.00 Level:	Date 24/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 x 0.90 Depth 4.00	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.30			(Soft) yellowish brown silty CLAY. (RIVER TERRACE DEPOSITS)
	1.00	HVP	54				*1.00-1.80m Becoming firm*
	1.00	HVP	54				
	1.00	HVP	54				
▼				1.80			(Loose to medium dense) white and yellowish brown silty gravelly SAND. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)
				2.30			(Soft to firm) pinkish brown silty CLAY. (LONDON CLAY FORMATION)
	2.50	HVP	58				*2.50-3.60m Becoming firm*
	2.50	HVP	58				
	2.50	HVP	58				
	2.90	HVP	44				
	2.90	HVP	44				
	2.90	HVP	50				
	3.20	HVP	44				
	3.20	HVP	44				
	3.20	HVP	44				
	3.60	HVP	110	3.60			Stiff dark brown CLAY. (LONDON CLAY FORMATION)
	3.60	HVP	110				
	3.60	HVP	110				
				4.00			End of Pit at 4.000m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.00m as moderate flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.00-3.00m

Trial Pit Log

Geo Environmental Group

TrialPit No **TP37** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489437.00 - 99045.00 Level:	Date 24/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.00 x 0.90 Depth 3.90	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.30			(Firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)
	0.80	HVP	24				
	0.80	HVP	36				*0.80-1.20m Becoming soft*
	0.80	HVP	36				
				1.20			(Very soft) white and yellowish brown sandy slightly gravelly slightly clayey SILT. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)
▼				2.00			Firm pinkish brown CLAY. (LONDON CLAY FORMATION)
	2.10	HVP	56				
	2.10	HVP	56				
	2.10	HVP	56				
	2.50	HVP	62				
	2.50	HVP	62				
	2.50	HVP	62				
	3.00	HVP	84	3.00			Stiff pinkish brown CLAY. (LONDON CLAY FORMATION)
	3.00	HVP	84				
	3.00	HVP	84				
				3.90			End of Pit at 3.900m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.00m as slow flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.00m

Geo Environmental Group

Trial Pit Log

TrialPit No **TP38** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489401.64 - 99009.31 Level:	Date 24/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.00 × 0.90 Depth 3.80	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.40			Firm orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)
	0.80	HVP	44				
	0.80	HVP	44				
	0.80	HVP	44				
				1.20			(Medium dense) brownish grey silty slightly gravelly SAND. Gravel is medium sub-rounded flint and quartzite. (RIVER TERRACE DEPOSITS)
				1.60			Firm pinkish brown silty CLAY. (LONDON CLAY FORMATION)
	1.70	HVP	64				
	1.70	HVP	64				
	1.70	HVP	64				
	1.80	LB					
	2.50	HVP	80				*2.50-3.00m Becoming stiff*
	2.50	HVP	84				
	2.50	HVP	84				
	3.00	HVP	124	3.00			Stiff dark brown CLAY. (LONDON CLAY FORMATION)
	3.00	HVP	124				
	3.00	HVP	124				
				3.80			End of Pit at 3.800m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. No groundwater encountered. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.00m

Trial Pit Log

Geo Environmental Group

TrialPit No **TP39** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489401.78 - 98922.29 Level:	Date 24/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.00 × 0.90 Depth 3.90	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
	0.20	D					
				0.40			(Firm) yellowish brown silty CLAY. (RIVER TERRACE DEPOSITS)
	0.80	HVP	76				*0.80-1.60m Becoming stiff*
	0.80	HVP	76				
	0.80	HVP	76				
	1.00	D					
▼				1.60			(Medium dense) yellowish brown silty SAND & GRAVEL of medium sub-rounded flint and quartzite. (RIVER TERRACE DEPOSITS)
	2.55	HVP	50	2.50			Firm pinkish brown silty CLAY. (LONDON CLAY FORMATION)
	2.55	HVP	50				
	2.55	HVP	50				
	3.00	HVP	50				
	3.00	HVP	56				
	3.00	HVP	58				
	3.20	HVP	70				
	3.20	HVP	70				
	3.20	HVP	70				
				3.50			Stiff dark brown silty CLAY. (LONDON CLAY FORMATION)
	3.70	HVP	116				
	3.70	HVP	116				
	3.70	HVP	118				
				3.90			End of Pit at 3.900m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.00m as slow flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable from 2.00m

Geo Environmental Group

Trial Pit Log

TrialPit No **TP44** Sheet 1 of 1

Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489612.93 - 99088.79 Level:	Date 24/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.50 × 0.90 Depth 4.00	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)
				0.40			(Soft to firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)
	0.80	HVP	50				*0.80-1.30m Becoming firm*
	0.80	HVP	50				
	0.80	HVP	50				
	1.30	HVP	16				*1.30-1.60m Becoming very soft*
	1.30	HVP	20				
	1.30	HVP	22				
				1.60			(Soft) orangish brown SILT. (RIVER TERRACE DEPOSITS)
▼				1.80			(Loose to medium dense) light grey silty gravelly medium to coarse SAND. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)
							1.90-2.30m With occasional lenses of (soft) clay
				2.30			(Loose) grey silty gravelly medium SAND. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)
				4.00			End of Pit at 4.000m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Remarks: 1. Groundwater encountered at 2.00m as moderate flow. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion trial pit backfilled with arisings.

Stability: Unstable below 1.00m. Sides collapsed to 2.50m at 4.00m

APPENDIX D

INFILTRATION TEST DATA

ARUN DISTRICT COUNCIL P/68/22/DOC

Appendix D
Infiltration Tests

Project Name:	**Hook Lane, Pagham**	Depth of Pit (cm):	200.00
Project Ref.:	**GEG-19-623**	Depth of Water at Start of Depth (cm):	79.00
Trial Pit:	**IT41**	Date of Test:	23 October 2019
Test No.:	**Test 1 of 1**		

Time (min)	Depth from Surface (cm)	% Effective Depth
0	79	100%
1	79	100%
55	79	100%
92	79	100%
164	79	100%
246	79	100%
282	79	100%
End of Test		

With Reference to: **Figure D-1**

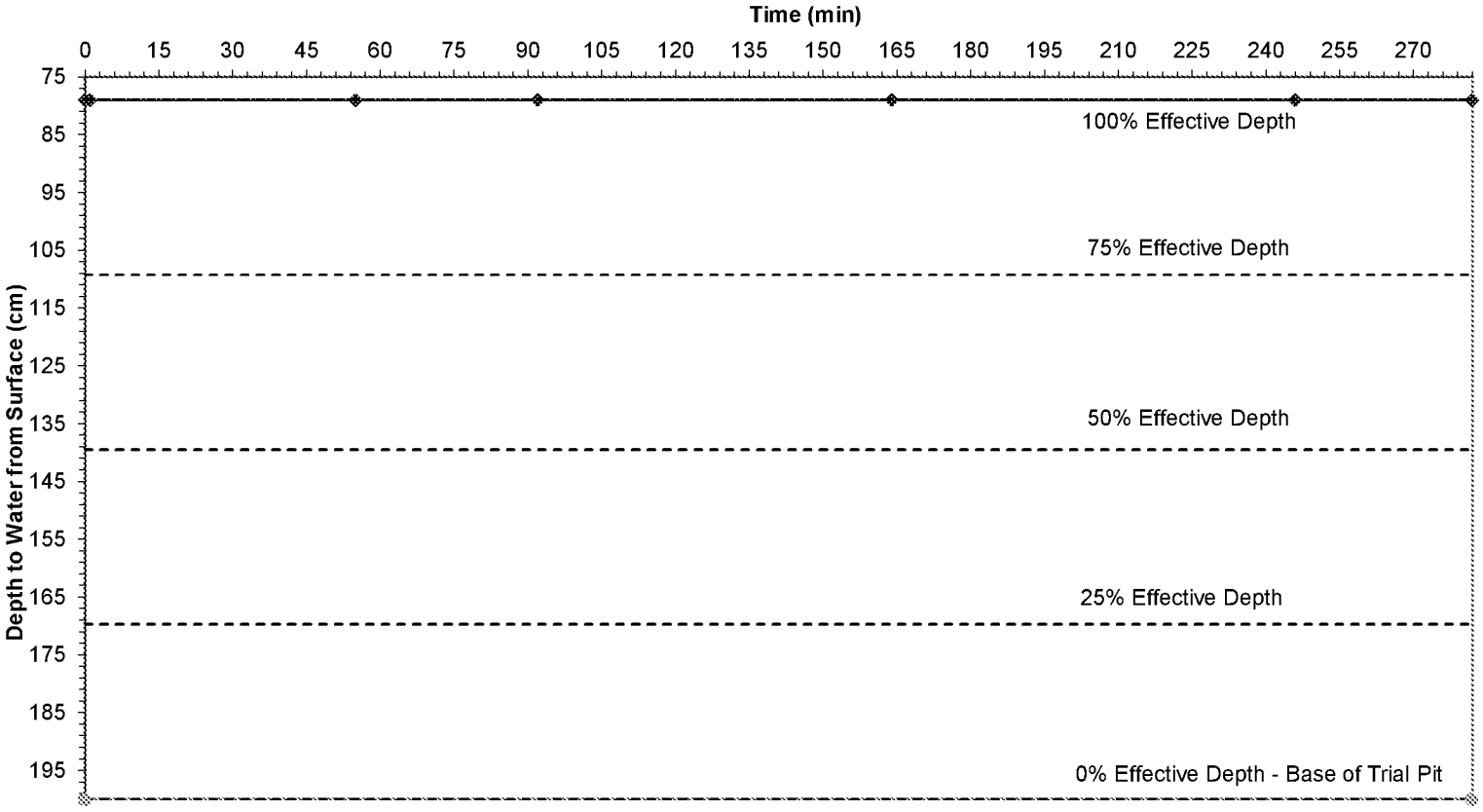
Parameter	Symbol	Calculation	Units	IT41
Effective Depth of Trial Pit	d_p		m	1.21
Width of Trial Pit	w		m	0.90
Length of Trial Pit	l		m	2.00
Volume of Trial Pit	V	$= d_p \times w \times l$	m^3	2.18
Volume of Trial Pit at 50% Effective Depth	$V_{50\%}$	$= V \times 0.5$	m^3	1.089
Internal Surface Area of Trial Pit*	$a_{p50\%}$	$= l \times w + d_p \times (w + l)$	m^2	5.31
Time to reach 75% Effective Depth	$T_{p75\%}$		min	N/A
Time to reach 25% Effective Depth	$T_{p25\%}$		min	N/A
Time 25% - 75%	$T_{p75\%-25\%}$	$= T_{p25\%} - T_{p75\%}$	min	N/A
Infiltration Rate	f	$= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$	m/s	**N/A**

*To 50% Effective Depth (including base)

Engineer: NN
Checked: MP

ARUN DISTRICT COUNCIL P/68/22/DOC

Figure D-1 **GEG-19-623** **Hook Lane, Pagham** **IT41**



Appendix D
Infiltration Tests

Project Name: **Hook Lane, Pagham**
Project Ref.: **GEG-19-623**
Trial Pit: **IT42**
Test No.: **Test 1 of 1**

Depth of Pit (cm): 180.00
Depth of Water at Start of Depth (cm): 52.00
Date of Test: 23 October 2019



Time (min)	Depth from Surface (cm)	% Effective Depth
0	52	100%
2	52	100%
40	52	100%
72	52	100%
98	55	98%
156	58	95%
225	53	99%
255	52	100%
End of Test		

With Reference to: **Figure D-2**

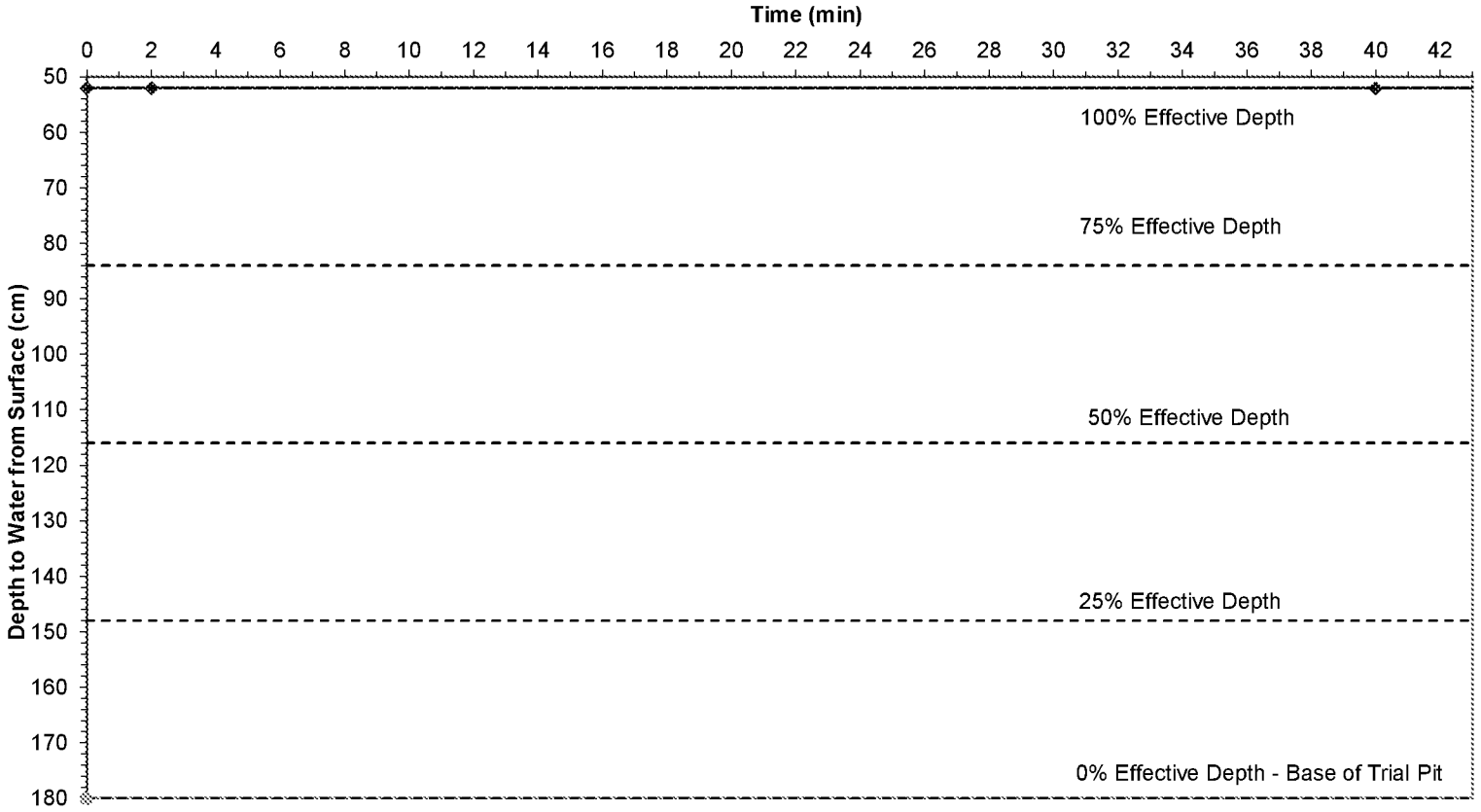
Parameter	Symbol	Calculation	Units	IT42
Effective Depth of Trial Pit	d_p		m	1.28
Width of Trial Pit	w		m	0.90
Length of Trial Pit	l		m	2.00
Volume of Trial Pit	V	$= d_p \times w \times l$	m^3	2.30
Volume of Trial Pit at 50% Effective Depth	$V_{50\%}$	$= V \times 0.5$	m^3	1.152
Internal Surface Area of Trial Pit*	$a_{p50\%}$	$= l \times w + d_p \times (w + l)$	m^2	5.51
Time to reach 75% Effective Depth	$T_{p75\%}$		min	N/A
Time to reach 25% Effective Depth	$T_{p25\%}$		min	N/A
Time 25% - 75%	$T_{p75\%-25\%}$	$= T_{p25\%} - T_{p75\%}$	min	N/A
Infiltration Rate	f	$= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$	m/s	**N/A**

*To 50% Effective Depth (including base)

Engineer: NN
Checked: MP

ARUN DISTRICT COUNCIL P/68/22/DOC

Figure D-2 **GEG-19-623** **Hook Lane, Pagham** **IT42**



Appendix D
Infiltration Tests

Project Name: **Hook Lane, Pagham**
Project Ref.: **GEG-19-623**
Trial Pit: **IT43**
Test No.: **Test 1 of 1**

Depth of Pit (cm): 200.00
Depth of Water at Start of Depth (cm): 55.00
Date of Test: 23 October 2019

Time (min)	Depth from Surface (cm)	% Effective Depth
0	55	100%
6	55	100%
49	50	103%
78	50	103%
163	49	104%
232	48	105%
267	48	105%
End of Test		

With Reference to: **Figure D-3**

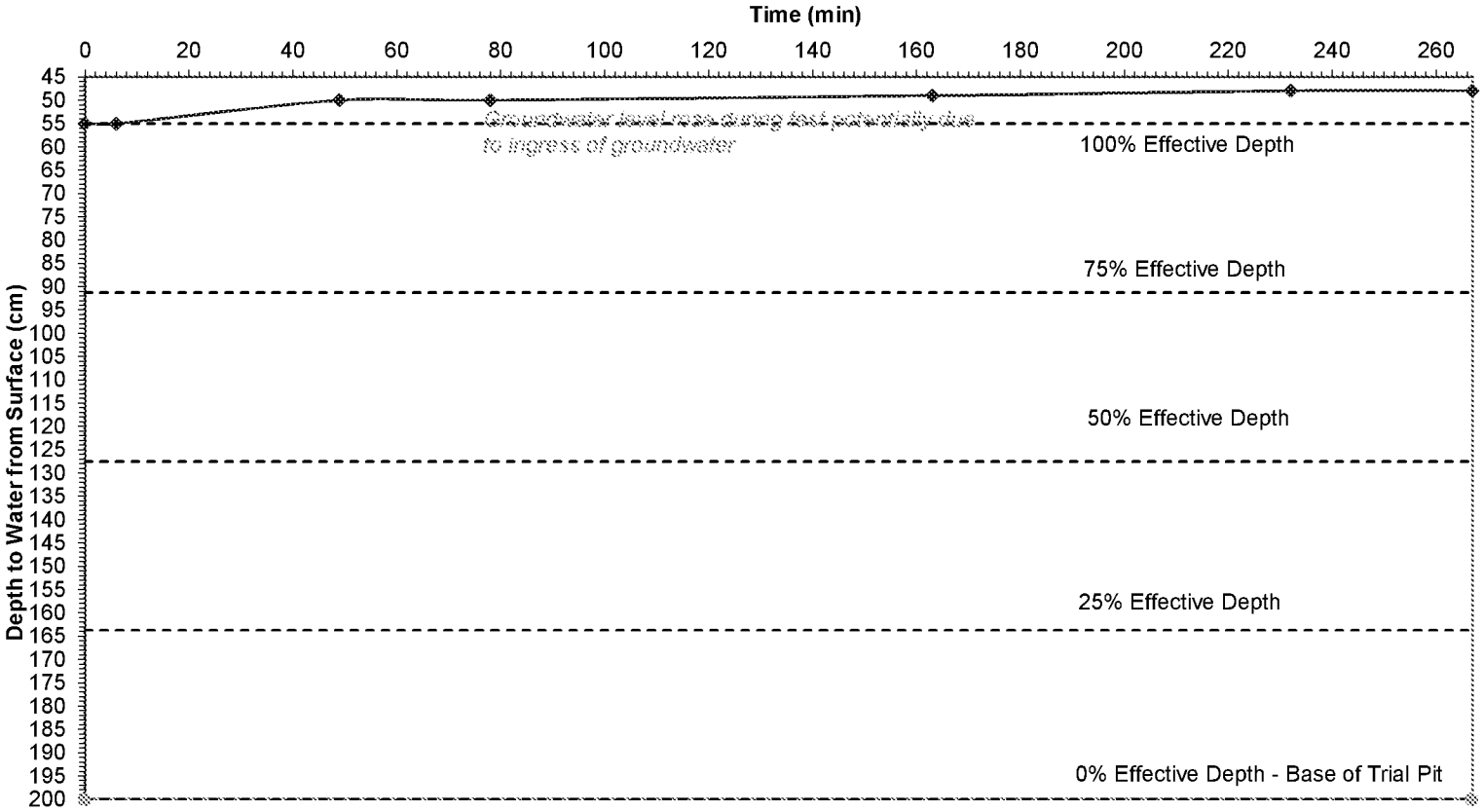
Parameter	Symbol	Calculation	Units	IT43
Effective Depth of Trial Pit	d_p		m	1.45
Width of Trial Pit	w		m	0.90
Length of Trial Pit	l		m	2.00
Volume of Trial Pit	V	$= d_p \times w \times l$	m^3	2.61
Volume of Trial Pit at 50% Effective Depth	$V_{50\%}$	$= V \times 0.5$	m^3	1.305
Internal Surface Area of Trial Pit*	$a_{p50\%}$	$= l \times w + d_p \times (w + l)$	m^2	6.01
Time to reach 75% Effective Depth	$T_{p75\%}$		min	N/A
Time to reach 25% Effective Depth	$T_{p25\%}$		min	N/A
Time 25% - 75%	$T_{p75\%-25\%}$	$= T_{p25\%} - T_{p75\%}$	min	N/A
Infiltration Rate	f	$= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$	m/s	**N/A**

*To 50% Effective Depth (including base)

Engineer: NN
Checked: MP

ARUN DISTRICT COUNCIL P/68/22/DOC

Figure D-3 **GEG-19-623** **Hook Lane, Pagham** **IT43**



APPENDIX E

CHEMICAL ANALYSIS RESULTS

Nick Needham
Geo Environmental Group
GEG House,
17 Graham Road
Malvern
WR14 2HR

DETS Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
[redacted]

4480

DETS Report No: 19-15295

Site Reference:	Hook Lane, Pagham
Project / Job Ref:	GEG-19-623
Order No:	3531
Sample Receipt Date:	29/10/2019
Sample Scheduled Date:	29/10/2019
Report Issue Number:	2
Reporting Date:	10/12/2019

Authorised by:
[redacted]
Dave Ashworth
Technical Manager

This report supersedes 19-15295, issue no.1.

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DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
[redacted]

4480

Soil Analysis Certificate						
DETS Report No: 19-15295	**Date Sampled**	25/10/19	25/10/19	25/10/19	25/10/19	25/10/19
Geo Environmental Group	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Hook Lane, Pagham	**TP / BH No**	TP01	TP05	TP05	TP10	TP10
Project / Job Ref: GEG-19-623	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: 3531	**Depth (m)**	0.20	0.20	1.20	0.10	1.20
Reporting Date: 10/12/2019	**DETS Sample No**	444342	444343	444344	444345	444346

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	MCERTS	6.2	5.9	7.9	6.1	7.2
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2		< 2	
Free Cyanide	mg/kg	< 2	NONE	< 2	< 2		< 2	
Total Sulphate as SO_4	mg/kg	< 200	NONE	< 200	278		337	
Total Sulphate as SO_4	%	< 0.02	NONE	< 0.02	0.03		0.03	
W/S Sulphate as SO_4 (2:1)	mg/l	< 10	MCERTS	12	13	< 10	16	17
W/S Sulphate as SO_4 (2:1)	g/l	< 0.01	MCERTS	0.01	0.01	< 0.01	0.02	0.02
Sulphide	mg/kg	< 5	NONE	< 5	< 5		< 5	
Organic Matter	%	< 0.1	MCERTS	< 0.1	1.8		1.6	
W/S Chloride (2:1)	mg/kg	< 1	MCERTS			16		15
W/S Chloride (2:1)	mg/l	< 0.5	MCERTS			8.2		7.7
Antimony (Sb)	mg/kg	< 1	NONE	< 1	1.1		1.1	
Arsenic (As)	mg/kg	< 2	MCERTS	6	7		7	
W/S Boron	mg/kg	< 1	NONE	< 1	< 1		< 1	
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2	0.2		< 0.2	
Chromium (Cr)	mg/kg	< 2	MCERTS	8	21		18	
Chromium (III)	mg/kg	< 2	NONE	8	21		18	
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2		< 2	
Copper (Cu)	mg/kg	< 4	MCERTS	< 4	13		11	
Lead (Pb)	mg/kg	< 3	MCERTS	4	16		17	
W/S Magnesium	mg/l	< 0.1	NONE			1.9		2.8
Mercury (Hg)	mg/kg	< 1	NONE	< 1	< 1		< 1	
Nickel (Ni)	mg/kg	< 3	MCERTS	5	12		10	
Selenium (Se)	mg/kg	< 3	NONE	< 3	< 3		< 3	
Zinc (Zn)	mg/kg	< 3	MCERTS	13	39		37	
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2		< 2	

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C
Subcontracted analysis (S)

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Soil Analysis Certificate						
DETS Report No: 19-15295	**Date Sampled**	25/10/19	25/10/19	25/10/19	25/10/19	25/10/19
Geo Environmental Group	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Hook Lane, Pagham	**TP / BH No**	TP14	TP14	TP20	TP20	TP23
Project / Job Ref: GEG-19-623	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: 3531	**Depth (m)**	0.20	1.00	0.20	1.20	1.00
Reporting Date: 10/12/2019	**DETS Sample No**	444347	444348	444349	444350	444352

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	MCERTS	6.6	8.1	7.1	8.0	8.2
Total Cyanide	mg/kg	< 2	NONE	< 2		< 2		
Free Cyanide	mg/kg	< 2	NONE	< 2		< 2		
Total Sulphate as SO_4	mg/kg	< 200	NONE	320		1552		
Total Sulphate as SO_4	%	< 0.02	NONE	0.03		0.16		
W/S Sulphate as SO_4 (2:1)	mg/l	< 10	MCERTS	< 10	< 10	555	33	15
W/S Sulphate as SO_4 (2:1)	g/l	< 0.01	MCERTS	< 0.01	< 0.01	0.56	0.03	0.01
Sulphide	mg/kg	< 5	NONE	< 5		< 5		
Organic Matter	%	< 0.1	MCERTS	2		2		
W/S Chloride (2:1)	mg/kg	< 1	MCERTS		18		14	14
W/S Chloride (2:1)	mg/l	< 0.5	MCERTS		8.8		6.9	7.1
Antimony (Sb)	mg/kg	< 1	NONE	1.3		1.2		
Arsenic (As)	mg/kg	< 2	MCERTS	7		7		
W/S Boron	mg/kg	< 1	NONE	< 1		< 1		
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2		< 0.2		
Chromium (Cr)	mg/kg	< 2	MCERTS	20		22		
Chromium (III)	mg/kg	< 2	NONE	20		22		
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2		< 2		
Copper (Cu)	mg/kg	< 4	MCERTS	11		12		
Lead (Pb)	mg/kg	< 3	MCERTS	19		15		
W/S Magnesium	mg/l	< 0.1	NONE		2.4		3.1	2.6
Mercury (Hg)	mg/kg	< 1	NONE	< 1		< 1		
Nickel (Ni)	mg/kg	< 3	MCERTS	12		13		
Selenium (Se)	mg/kg	< 3	NONE	< 3		< 3		
Zinc (Zn)	mg/kg	< 3	MCERTS	41		38		
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2		< 2		

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C
Subcontracted analysis (S)

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Soil Analysis Certificate						
DETS Report No: 19-15295	**Date Sampled**	25/10/19	25/10/19	25/10/19	25/10/19	25/10/19
Geo Environmental Group	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Hook Lane, Pagham	**TP / BH No**	TP24	TP24	TP27	TP27	TP30
Project / Job Ref: GEG-19-623	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: 3531	**Depth (m)**	0.20	1.00	0.10	1.00	0.20
Reporting Date: 10/12/2019	**DETS Sample No**	444353	444354	444355	444356	444357

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	MCERTS	7.5	7.5	7.1	7.5	7.3
Total Cyanide	mg/kg	< 2	NONE	< 2		< 2		< 2
Free Cyanide	mg/kg	< 2	NONE	< 2		< 2		< 2
Total Sulphate as SO_4	mg/kg	< 200	NONE	395		393		315
Total Sulphate as SO_4	%	< 0.02	NONE	0.04		0.04		0.03
W/S Sulphate as SO_4 (2:1)	mg/l	< 10	MCERTS	12	1160	64	18	22
W/S Sulphate as SO_4 (2:1)	g/l	< 0.01	MCERTS	0.01	1.16	0.06	0.02	0.02
Sulphide	mg/kg	< 5	NONE	< 5		< 5		< 5
Organic Matter	%	< 0.1	MCERTS	1.8		1.6		1.6
W/S Chloride (2:1)	mg/kg	< 1	MCERTS		20		13	
W/S Chloride (2:1)	mg/l	< 0.5	MCERTS		9.9		6.3	
Antimony (Sb)	mg/kg	< 1	NONE	< 1		1.1		1.1
Arsenic (As)	mg/kg	< 2	MCERTS	7		7		7
W/S Boron	mg/kg	< 1	NONE	< 1		< 1		< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2		0.2		0.2
Chromium (Cr)	mg/kg	< 2	MCERTS	20		22		21
Chromium (III)	mg/kg	< 2	NONE	20		22		21
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2		< 2		< 2
Copper (Cu)	mg/kg	< 4	MCERTS	11		14		11
Lead (Pb)	mg/kg	< 3	MCERTS	15		17		16
W/S Magnesium	mg/l	< 0.1	NONE		6.5		2.1	
Mercury (Hg)	mg/kg	< 1	NONE	< 1		< 1		< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	11		13		13
Selenium (Se)	mg/kg	< 3	NONE	< 3		< 3		< 3
Zinc (Zn)	mg/kg	< 3	MCERTS	40		42		40
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2		< 2		< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C
Subcontracted analysis (S)

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Soil Analysis Certificate						
DETS Report No: 19-15295	**Date Sampled**	25/10/19	25/10/19	25/10/19		
Geo Environmental Group	**Time Sampled**	None Supplied	None Supplied	None Supplied		
Site Reference: Hook Lane, Pagham	**TP / BH No**	TP30	TP39	TP39		
Project / Job Ref: GEG-19-623	**Additional Refs**	None Supplied	None Supplied	None Supplied		
Order No: 3531	**Depth (m)**	1.00	0.20	1.00		
Reporting Date: 10/12/2019	**DETS Sample No**	444358	444359	444360		

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	MCERTS	7.9	6.8	8.2		
Total Cyanide	mg/kg	< 2	NONE		< 2			
Free Cyanide	mg/kg	< 2	NONE		< 2			
Total Sulphate as SO_4	mg/kg	< 200	NONE		302			
Total Sulphate as SO_4	%	< 0.02	NONE		0.03			
W/S Sulphate as SO_4 (2:1)	mg/l	< 10	MCERTS	14	< 10	12		
W/S Sulphate as SO_4 (2:1)	g/l	< 0.01	MCERTS	0.01	< 0.01	0.01		
Sulphide	mg/kg	< 5	NONE		< 5			
Organic Matter	%	< 0.1	MCERTS		2.1			
W/S Chloride (2:1)	mg/kg	< 1	MCERTS	12		15		
W/S Chloride (2:1)	mg/l	< 0.5	MCERTS	6		7.7		
Antimony (Sb)	mg/kg	< 1	NONE		1.1			
Arsenic (As)	mg/kg	< 2	MCERTS		7			
W/S Boron	mg/kg	< 1	NONE		< 1			
Cadmium (Cd)	mg/kg	< 0.2	MCERTS		0.2			
Chromium (Cr)	mg/kg	< 2	MCERTS		21			
Chromium (III)	mg/kg	< 2	NONE		21			
Chromium (hexavalent)	mg/kg	< 2	NONE		< 2			
Copper (Cu)	mg/kg	< 4	MCERTS		13			
Lead (Pb)	mg/kg	< 3	MCERTS		18			
W/S Magnesium	mg/l	< 0.1	NONE	2.2		2.2		
Mercury (Hg)	mg/kg	< 1	NONE		< 1			
Nickel (Ni)	mg/kg	< 3	MCERTS		13			
Selenium (Se)	mg/kg	< 3	NONE		< 3			
Zinc (Zn)	mg/kg	< 3	MCERTS		38			
Total Phenols (monohydric)	mg/kg	< 2	NONE		< 2			

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C
Subcontracted analysis (S)

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 19-15295	**Date Sampled**	25/10/19	25/10/19	25/10/19	25/10/19	25/10/19
Geo Environmental Group	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Hook Lane, Pagham	**TP / BH No**	TP01	TP05	TP10	TP14	TP20
Project / Job Ref: GEG-19-623	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: 3531	**Depth (m)**	0.20	0.20	0.10	0.20	0.20
Reporting Date: 10/12/2019	**DETS Sample No**	444342	444343	444345	444347	444349

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 19-15295	**Date Sampled**	25/10/19	25/10/19	25/10/19	25/10/19	
Geo Environmental Group	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Hook Lane, Pagham	**TP / BH No**	TP24	TP27	TP30	TP39	
Project / Job Ref: GEG-19-623	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	
Order No: 3531	**Depth (m)**	0.20	0.10	0.20	0.20	
Reporting Date: 10/12/2019	**DETS Sample No**	444353	444355	444357	444359	

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6	< 1.6	< 1.6	

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C

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Soil Analysis Certificate - EPH Texas Banded						
DETS Report No: 19-15295	Date Sampled	25/10/19	25/10/19	25/10/19	25/10/19	25/10/19
Geo Environmental Group	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Hook Lane, Pagham	TP / BH No	TP01	TP05	TP10	TP14	TP20
Project / Job Ref: GEG-19-623	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: 3531	Depth (m)	0.20	0.20	0.10	0.20	0.20
Reporting Date: 10/12/2019	DETS Sample No	444342	444343	444345	444347	444349

Determinand	Unit	RL	Accreditation					
EPH Texas (C6 - C8)	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
EPH Texas (>C8 - C10)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
EPH Texas (>C10 - C12)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
EPH Texas (>C12 - C16)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
EPH Texas (>C16 - C21)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
EPH Texas (>C21 - C40)	mg/kg	< 6	MCERTS	< 6	< 6	< 6	< 6	< 6
EPH Texas (C6 - C40)	mg/kg	< 6	NONE	< 6	< 6	< 6	< 6	< 6

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C

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Soil Analysis Certificate - EPH Texas Banded						
DETS Report No: 19-15295	Date Sampled	25/10/19	25/10/19	25/10/19	25/10/19	
Geo Environmental Group	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Hook Lane, Pagham	TP / BH No	TP24	TP27	TP30	TP39	
Project / Job Ref: GEG-19-623	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	
Order No: 3531	Depth (m)	0.20	0.10	0.20	0.20	
Reporting Date: 10/12/2019	DETS Sample No	444353	444355	444357	444359	

Determinand	Unit	RL	Accreditation					
EPH Texas (C6 - C8)	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
EPH Texas (>C8 - C10)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	
EPH Texas (>C10 - C12)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	
EPH Texas (>C12 - C16)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	
EPH Texas (>C16 - C21)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	
EPH Texas (>C21 - C40)	mg/kg	< 6	MCERTS	< 6	< 6	< 6	< 6	
EPH Texas (C6 - C40)	mg/kg	< 6	NONE	< 6	< 6	< 6	< 6	

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C

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Soil Analysis Certificate - PCB (12 Congeners)						
DETS Report No: 19-15295	**Date Sampled**	25/10/19				
Geo Environmental Group	**Time Sampled**	None Supplied				
Site Reference: Hook Lane, Pagham	**TP / BH No**	PCB01				
Project / Job Ref: GEG-19-623	**Additional Refs**	None Supplied				
Order No: 3531	**Depth (m)**	0.10				
Reporting Date: 10/12/2019	**DETS Sample No**	444341				

Determinand	Unit	RL	Accreditation					
PCB Congener 77	mg/kg	0.008	NONE	< 0.008				
PCB Congener 81	mg/kg	0.008	NONE	< 0.008				
PCB Congener 105	mg/kg	0.008	NONE	< 0.008				
PCB Congener 114	mg/kg	0.008	NONE	< 0.008				
PCB Congener 118	mg/kg	0.008	NONE	< 0.008				
PCB Congener 123	mg/kg	0.008	NONE	< 0.008				
PCB Congener 126	mg/kg	0.008	NONE	< 0.008				
PCB Congener 156	mg/kg	0.008	NONE	< 0.008				
PCB Congener 157	mg/kg	0.008	NONE	< 0.008				
PCB Congener 167	mg/kg	0.008	NONE	< 0.008				
PCB Congener 169	mg/kg	0.008	NONE	< 0.008				
PCB Congener 189	mg/kg	0.008	NONE	< 0.008				
Total PCB (12 Congeners)	mg/kg	< 0.1	NONE	< 0.1				

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C

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Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 19-15295	
Geo Environmental Group	
Site Reference: Hook Lane, Pagham	
Project / Job Ref: GEG-19-623	
Order No: 3531	
Reporting Date: 10/12/2019	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
444341	PCB01	None Supplied	0.10	19.8	Brown clayey sand
444342	TP01	None Supplied	0.20	17.5	Brown clayey sand with stones
444343	TP05	None Supplied	0.20	15.3	Brown clayey sand
444344	TP05	None Supplied	1.20	13.3	Brown clayey sand
444345	TP10	None Supplied	0.10	14.9	Brown clayey sand
444346	TP10	None Supplied	1.20	16.3	Brown clayey sand
444347	TP14	None Supplied	0.20	15.8	Brown clayey sand
444348	TP14	None Supplied	1.00	14.3	Brown clayey sand
444349	TP20	None Supplied	0.20	17.8	Brown clayey sand
444350	TP20	None Supplied	1.20	10.8	Brown clayey sand
444352	TP23	None Supplied	1.00	11.7	Brown clayey sand
444353	TP24	None Supplied	0.20	15	Brown clayey sand
444354	TP24	None Supplied	1.00	17.1	Brown clayey sand
444355	TP27	None Supplied	0.10	16.9	Brown clayey sand
444356	TP27	None Supplied	1.00	12.5	Brown clayey sand
444357	TP30	None Supplied	0.20	14.6	Brown clayey sand with stones
444358	TP30	None Supplied	1.00	14.2	Brown clayey sand
444359	TP39	None Supplied	0.20	17.3	Brown clayey sand
444360	TP39	None Supplied	1.00	15	Brown clayey sand

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample I/S

Unsuitable Sample U/S

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MCERTS UKAS TESTING 4480

Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 19-15295
Geo Environmental Group
Site Reference: Hook Lane, Pagham
Project / Job Ref: GEG-19-623
Order No: 3531
Reporting Date: 10/12/2019

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received

APPENDIX F

STATISTICAL ASSESSMENT OF CHEMICAL RESULTS

ARUN DISTRICT COUNCIL P/68/22/DOC

Client/client ref	Brookbanks / HLM
Project ref	GEG-19-623
Site ref	Hook Lane, Pagham
Data description	Natural Ground
Contaminant(s)	As to Phenol
Test scenario	Planning: is true mean lower than critical concentration (μ < Cc)?
Date	21 November 2019
User details	MP

Statistics calculator (version 1)

esi soil & groundwater

Input data

This spreadsheet has been produced based on the document 'Guidance on Comparing Soil Contamination Data with a Critical Concentration (CIEH/CL:AIRE, 2008)'. Users of this spreadsheet should always refer to this guidance, the User Manual and to relevant guidance on UK legislation and policy, in order to understand how the procedure should be applied in an appropriate context.

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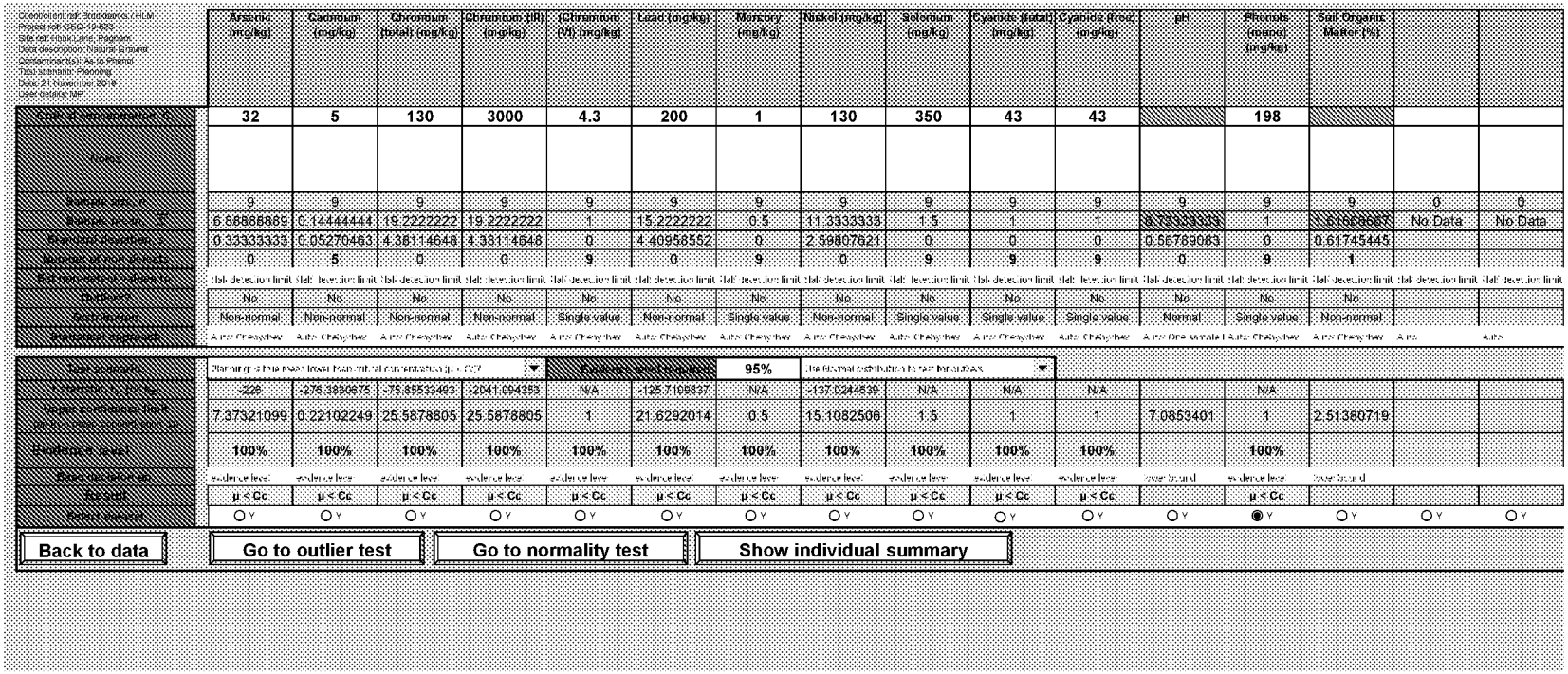
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Go to summary

Data sheet

Project details

Easting	Northing	Datum = NG	Arsenic	Cadmium	Chromium (total)	Chromium (III)	(Chromium (VI)	Lead	Mercury	Nickel	Selenium	Cyanide (total)	Cyanide (free)	pH	Phenols (mono)	Soil Organic Matter			
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg	%			
TP01	0.20m	NG	6	<0.2	8	8	<2	4	<1	5	<3	<2	<2	6.2	<2	<0.1			
TP05	0.20m	NG	7	0.2	21	21	<2	16	<1	12	<3	<2	<2	5.9	<2	1.8			
TP10	0.10m	NG	7	<0.2	18	18	<2	17	<1	10	<3	<2	<2	6.1	<2	1.6			
TP14	0.20m	NG	7	<0.2	20	20	<2	19	<1	12	<3	<2	<2	6.6	<2	2			
TP20	0.20m	NG	7	<0.2	22	22	<2	15	<1	13	<3	<2	<2	7.1	<2	2			
TP24	0.20m	NG	7	<0.2	20	20	<2	15	<1	11	<3	<2	<2	7.5	<2	1.8			
TP27	0.10m	NG	7	0.2	22	22	<2	17	<1	13	<3	<2	<2	7.1	<2	1.6			
TP30	0.20m	NG	7	0.2	21	21	<2	16	<1	13	<3	<2	<2	7.3	<2	1.6			
TP39	0.20m	NG	7	0.2	21	21	<2	18	<1	13	<3	<2	<2	6.8	<2	2.1			


Client/client ref: Brooklands / HCM
Project ref: GEO-19-023
Site ref: Hook Lane, Pagham
Data description: Natural Ground
Assessment(s): As to Planner
Task scenario: Planning
Date: 21 November 2019
User details: MP
Arsenic (mg/kg)
Cadmium (mg/kg)
Chromium (total) (mg/kg)
Chromium (III) (mg/kg)
(Chromium (VI) (mg/kg)
Lead (mg/kg)
Mercury (mg/kg)
Nickel (mg/kg)
Selenium (mg/kg)
Cyanide (total) (mg/kg)
Cyanide (free) (mg/kg)
pH
Phenols (monoh (mg/kg)
Soil Organic Matter (%)
Soil Guideline Value (SGV)
32
5
130
3000
4.3
200
1
130
350
43
43
198
Notes
Samples (n)
9 9 9 9 9 9 9 9 9 9 9 9 9 9 0 0
Minimum
6.88888889 0.14444444 19.2222222 19.2222222 1 15.2222222 0.5 11.3333333 1.5 1 1 8.73333333 1 1.61838637 No Data No Data
Maximum
0.33333333 0.05270463 4.38114648 4.38114648 0 4.40956552 0 2.59807621 0 0 0 0.58769083 0 0.61745445
Number of non-detects
0 5 0 0 9 0 9 0 9 9 9 0 9 1
Detection limit
Half detection limit Half detection limit Half detection limit Half detection limit Half detection limit Half detection limit Half detection limit Half detection limit Half detection limit Half detection limit Half detection limit Half detection limit Half detection limit Half detection limit Half detection limit Half detection limit
Outliers?
No No No No No No No No No No No No No No
Normality
Non-normal Non-normal Non-normal Non-normal Single value Non-normal Single value Non-normal Single value Single value Single value Normal Single value Non-normal
Statistical Approach
Auto Chebyshev Auto Chebyshev Auto Chebyshev Auto Chebyshev Auto Chebyshev Auto Chebyshev Auto Chebyshev Auto Chebyshev Auto Chebyshev Auto Chebyshev Auto Chebyshev Auto Chebyshev Auto Chebyshev Auto Chebyshev Auto
Test to apply
Planning guidance base lower confidence limit of the mean
95%
Use normal distribution to test for outliers
-226 -276.3830675 -75.85533493 -2041.094353 N/A -125.7109837 N/A -137.0244839 N/A N/A N/A N/A
Upper confidence limit
7.37321099 0.22102249 25.5878805 25.5878805 1 21.6292014 0.5 15.1082506 1.5 1 1 7.0853401 1 2.51380719
Evidence level
100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100%
Evidence level
Evidence level Evidence level Evidence level Evidence level Evidence level Evidence level Evidence level Evidence level Evidence level Evidence level Evidence level Lower bound Evidence level Lower bound
Result
μ < Cc μ < Cc μ < Cc μ < Cc μ < Cc μ < Cc μ < Cc μ < Cc μ < Cc μ < Cc μ < Cc μ < Cc
Select result
Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y
Back to data
Go to outlier test
Go to normality test
Show individual summary

ARUN DISTRICT COUNCIL P/68/22/DOC

Client/client ref	Brookbanks / HLM
Project ref	GEG-19-623
Site ref	Hook Lane, Pagham
Data description	Natural Ground
Contaminant(s)	Cu, Zn, B & Sb
Test scenario	Planning: is true mean lower than critical concentration (μ < Cc)?
Date	21 November 2019
User details	MP

Statistics calculator (version 1)

esi soil & groundwater

Input data

This spreadsheet has been produced based on the document 'Guidance on Comparing Soil Contamination Data with a Critical Concentration (CIEH/CL:AIRE, 2008)'. Users of this spreadsheet should always refer to this guidance, the User Manual and to relevant guidance on UK legislation and policy, in order to understand how the procedure should be applied in an appropriate context.

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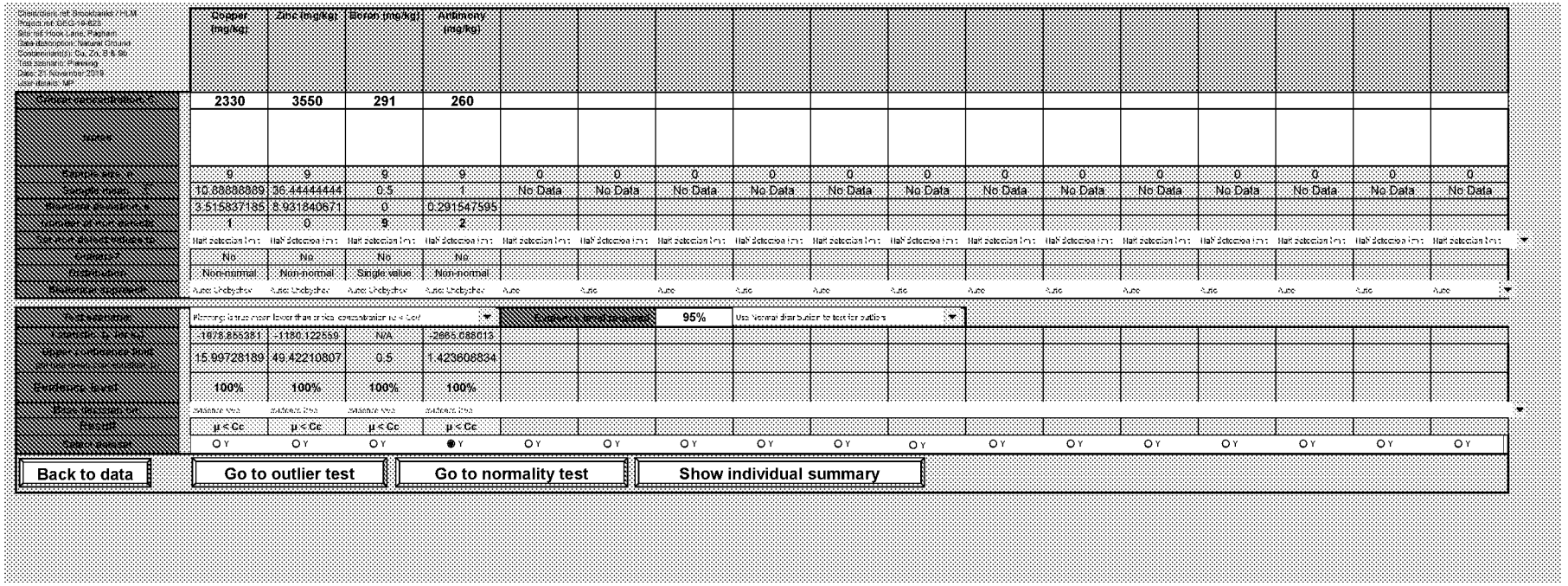
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Go to summary

Data sheet

Project details

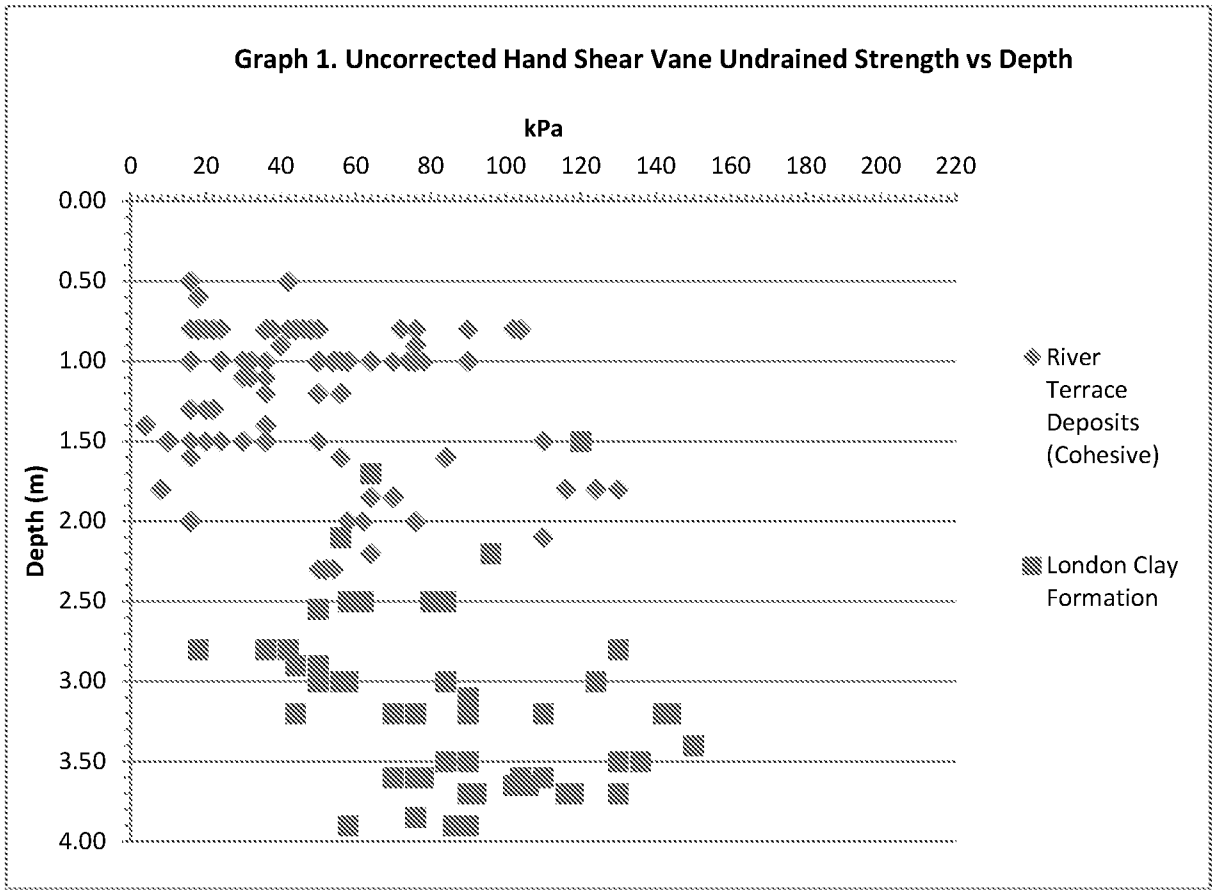
Easting	Northing	Sample ID	Copper	Zinc	Boron	Antimony													
			mg/kg	mg/kg	mg/kg	mg/kg													
TP01	0.20m	NG	<4	13	<1	<1													
TP05	0.20m	NG	13	39	<1	1.1													
TP10	0.10m	NG	11	37	<1	1.1													
TP14	0.20m	NG	11	41	<1	1.3													
TP20	0.20m	NG	12	38	<1	1.2													
TP24	0.20m	NG	11	40	<1	<1													
TP27	0.10m	NG	14	42	<1	1.1													
TP30	0.20m	NG	11	40	<1	1.1													
TP39	0.20m	NG	13	38	<1	1.1													


Client/client ref: Brooklands / HLM
Project ref: DEG-18-823
Site ref: Hook Lane, Pagham
Data description: Natural Ground
Contaminants: Cu, Zn, B & Sb
Test scenario: Planning
Date: 21 November 2019
User details: MP
Copper (mg/kg)
Zinc (mg/kg)
Boron (mg/kg)
Antimony (mg/kg)
Upper tolerance limit: C
2330
3550
291
260
Notes
Samples, n
9
9
9
9
Sample mean
10.88888889
36.44444444
0.5
1
Standard deviation, s
3.515837185
8.931840671
0
0.291547595
Number of non-detects
1
0
9
2
Limit of detection (LOD)
Half detection limit
Half detection limit
Half detection limit
Half detection limit
Outliers?
No
No
No
No
Distribution
Non-normal
Non-normal
Single value
Non-normal
Background (optional)
Auto: Chebyshev
Auto: Chebyshev
Auto: Chebyshev
Auto: Chebyshev
Test method
Planning: is true mean lower than or the concentration is a Soil
Confidence of the mean
95%
Use Normal distribution to test for outliers
Lower tolerance limit
-1878.855381
-1180.122559
N/A
-2985.086613
Upper confidence limit on the mean, or median, C
15.99728189
49.42210807
0.5
1.423606834
Exceedance limit
100%
100%
100%
100%
Exceedance test
Result
μ < Cc
μ < Cc
μ < Cc
μ < Cc
Pass / Fail
Y
Y
Y
Y
Back to data
Go to outlier test
Go to normality test
Show individual summary

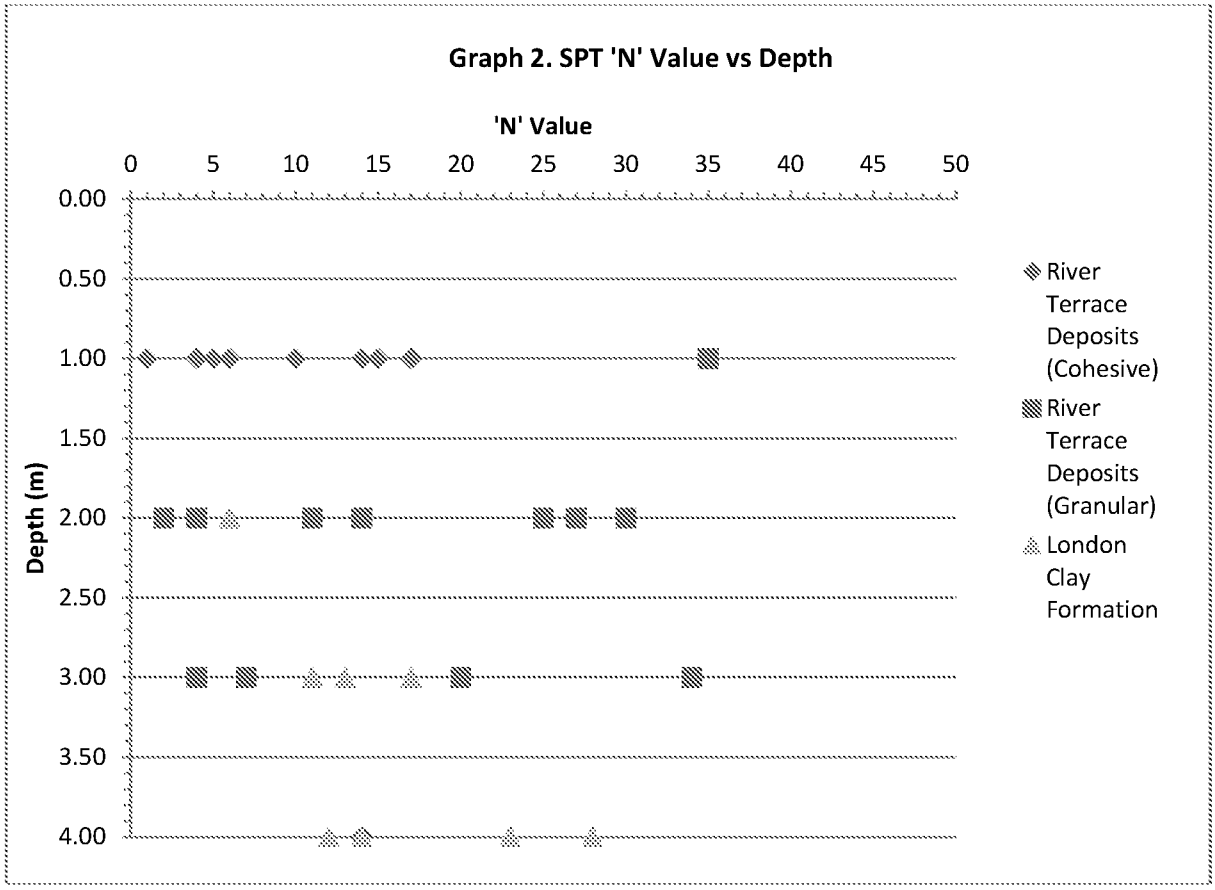
APPENDIX G

GEOTECHNICAL TESTING

Appendix G



ARUN DISTRICT COUNCIL P/68/22/DOC



ARUN DISTRICT COUNCIL P/68/22/DOC

Laboratory Report

2788

GSTL
GEO Site & Testing Services Ltd

Contract Number: 46398

Client Ref: **GEG-19-623**
Client PO: **3532**

Report Date: **16-11-2019**

Client **GEG Limited**
17 Graham Road
Malvern
Worcestershire
WR14 2HR

Contract Title: **Hook Lane, Pagham**
For the attention of: **Nicholas Needham**

Date Received: **31-10-2019**
Date Completed: **16-11-2019**

Test Description	Qty
Moisture Content BS 1377:1990 - Part 2 : 3.2 - * UKAS	10
4 Point Liquid & Plastic Limit BS 1377:1990 - Part 2 : 4.3 & 5.3 - * UKAS	10
PSD Wet Sieve method BS 1377:1990 - Part 2 : 9.2 - * UKAS	5
PSD: Sedimentation by pipette carried out with Wet Sieve (Wet Sieve must also be selected) BS 1377:1990 - Part 2 : 9.4 - * UKAS	4
Dry Den/MC (4.5kg Rammer Method 1 Litre Mould) BS 1377:1990 - Part 4 : 3.5 - * UKAS	5
Disposal of samples for job	1

Notes: **Observations and interpretations are outside the UKAS Accreditation**
*** - denotes test included in laboratory scope of accreditation**
 # - denotes test carried out by approved contractor
@ - denotes non accredited tests

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.

Approved Signatories:
Emma Sharp (Office Manager) - Paul Evans (Quality/Technical Manager) - Richard John (Advanced Testing Manager)
Sean Penn (Administrative/Accounts Assistant) - Shaun Jones (Laboratory manager) - Wayne Honey (Administrative/Quality Assistant)

GEO Site & Testing Services Ltd
Unit 3-4, Heol Aur, Dafen Ind Estate, Dafen, Llanelli, Carmarthenshire SA14 8QN
Tel: 01554 784040 Fax: 01554 784041 info@gstl.co.uk gstl.co.uk

ARUN DISTRICT COUNCIL P/68/22/DOC

GSTL	NATURAL MOISTURE, LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX (BS 1377 : Part 2 : 1990 Method 5)	
Contract Number	46398	
Site Name	Hook Lane, Pagham	
Date Tested	12/11/2019	
	DESCRIPTIONS	

Sample/Hole Reference	Sample Number	Sample Type	Depth (m)			Descriptions
TP05		D	1.20	-		Brown slightly fine gravelly sandy silty CLAY
TP10		D	1.20	-		Brown sandy silty CLAY
TP14		D	1.00	-		Brown slightly fine gravelly sandy silty CLAY
TP20		D	1.20	-		Brown sandy silty CLAY
TP21		D	1.00	-		Brown sandy silty CLAY
TP23		D	1.00	-		Brown fine to medium gravelly sandy silty CLAY
TP24		D	1.00	-		Brown sandy silty CLAY
TP27		D	1.00	-		Brown sandy silty CLAY
TP30		D	1.00	-		Brown slightly sandy silty CLAY
TP39		D	1.00	-		Brown sandy silty CLAY
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		

Operators	Checked	16/11/2019	Wayne Honey (Administrative/Quality Assistant)
Dean Smith	Approved	16/11/2019	Paul Evans (Quality/Technical Manager)

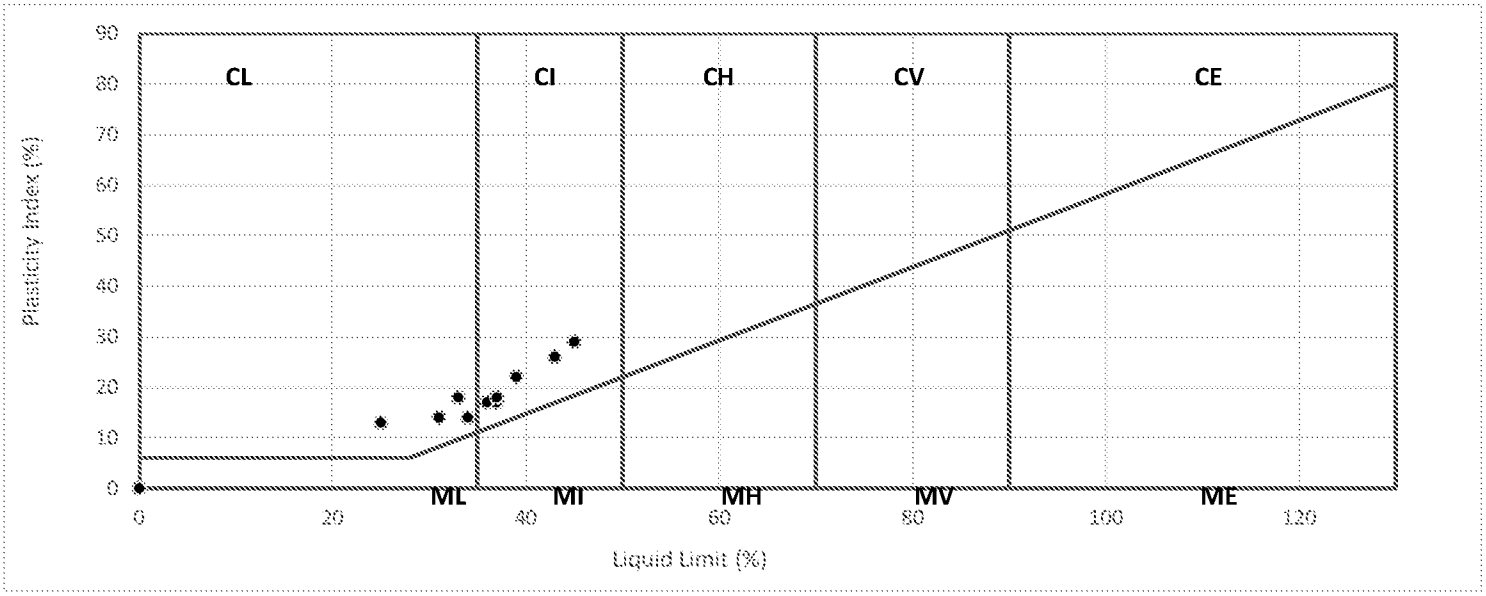
UKAS TESTING
2788

GSTL	NATURAL MOISTURE, LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX (BS 1377 : Part 2 : 1990 Method 5)	
Contract Number	46398	
Project Location	Hook Lane, Pagham	
Date Tested	12/11/2019	

Sample/Hole Reference	Sample Number	Sample Type	Depth (m)			Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity index %	Passing 0.425mm %	Remarks
TP05		D	1.20	-		24	43	17	26	98	CI Intermediate Plasticity
TP10		D	1.20	-		24	37	20	17	100	CI Intermediate Plasticity
TP14		D	1.00	-		20	33	15	18	98	CL Low Plasticity
TP20		D	1.20	-		19	31	17	14	99	CL Low Plasticity
TP21		D	1.00	-		25	45	16	29	100	CI Intermediate Plasticity
TP23		D	1.00	-		20	36	19	17	94	CI Intermediate Plasticity
TP24		D	1.00	-		24	39	17	22	100	CI Intermediate Plasticity
TP27		D	1.00	-		19	25	12	13	100	CL Low Plasticity
TP30		D	1.00	-		22	37	19	18	100	CI Intermediate Plasticity
TP39		D	1.00	-		22	34	20	14	100	CL Low Plasticity
				-							
				-							
				-							
				-							
				-							
				-							
				-							
				-							
				-							
				-							
				-							
				-							
				-							
				-							

Symbols: NP : Non Plastic # : Liquid Limit and Plastic Limit Wet Sieved

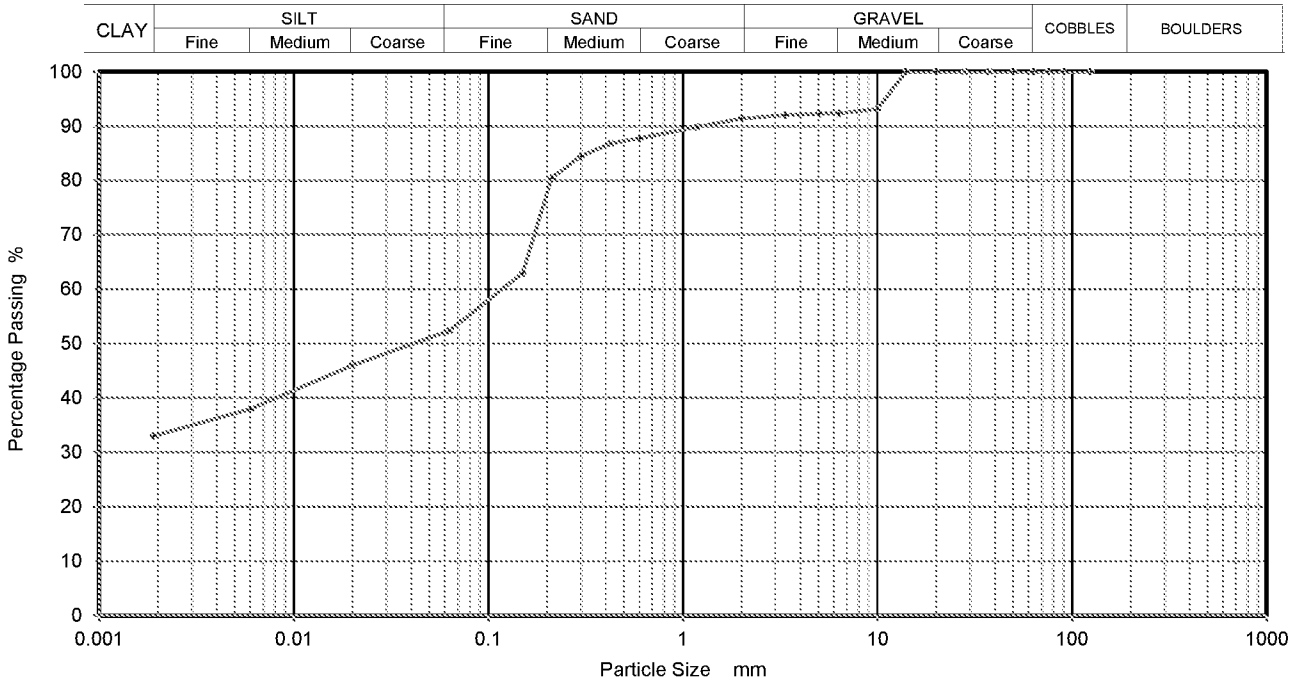
PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION
BS 5930:1999+A2:2010



Operators	Checked	16/11/2019	Wayne Honey (Administrative/Quality Assistant)
Dean Smith	Approved	16/11/2019	Paul Evans (Quality/Technical Manager)

UKAS TESTING
2788

GSTL	PARTICLE SIZE DISTRIBUTION BS 1377 Part 2:1990 Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4	Contract Number	46398
		Borehole/Pit No.	IT41
Site Name	Hook Lane, Pagham	Sample No.	
Soil Description	Brown slightly fine to medium gravelly silty clayey fine to coarse SAND	Depth Top	1.80
		Depth Base	
Date Tested	13/11/2019	Sample Type	B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	46
90	100	0.0060	38
75	100	0.0020	33
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	93		
6.3	92		
5	92		
3.35	92		
2	91		
1.18	90		
0.6	88		
0.425	87		
0.3	84		
0.212	80		
0.15	63		
0.063	52		

Sample Proportions	% dry mass
Cobbles	0
Gravel	9
Sand	39
Silt	19
Clay	33

Remarks

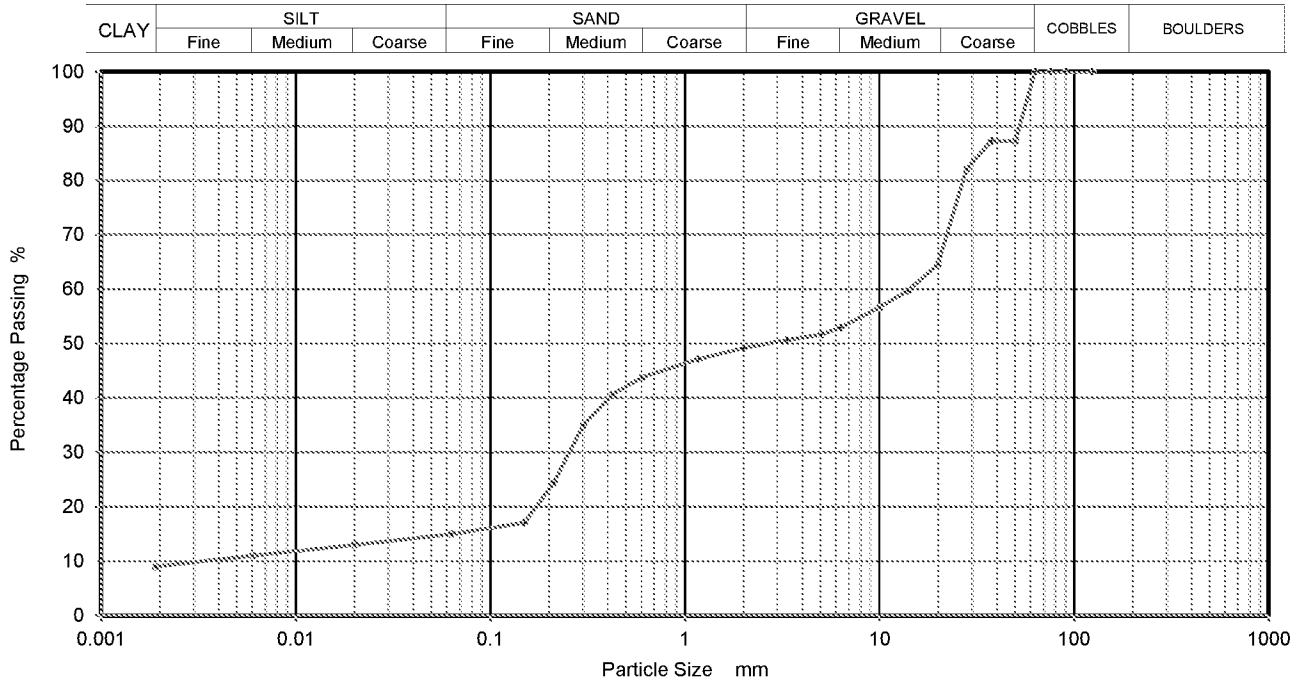
Preparation and testing in accordance with BS1377 unless noted below

Operators	Checked	15/11/2019	Wayne Honey
RO/MH	Approved	16/11/2019	Paul Evans

[redacted]

UKAS TESTING 2788

GSTL	PARTICLE SIZE DISTRIBUTION BS 1377 Part 2:1990 Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4	Contract Number	46398
		Borehole/Pit No.	IT42
Site Name	Hook Lane, Pagham	Sample No.	
Soil Description	Brown slightly silty slightly clayey fine to coarse sandy fine to coarse GRAVEL	Depth Top	0.60
		Depth Base	
Date Tested	13/11/2019	Sample Type	B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	13
90	100	0.0060	11
75	100	0.0020	9
63	100		
50	87		
37.5	87		
28	82		
20	65		
14	60		
10	57		
6.3	53		
5	52		
3.35	51		
2	49		
1.18	47		
0.6	44		
0.425	41		
0.3	35		
0.212	24		
0.15	17		
0.063	15		

Sample Proportions	% dry mass
Cobbles	0
Gravel	51
Sand	34
Silt	6
Clay	9

Remarks

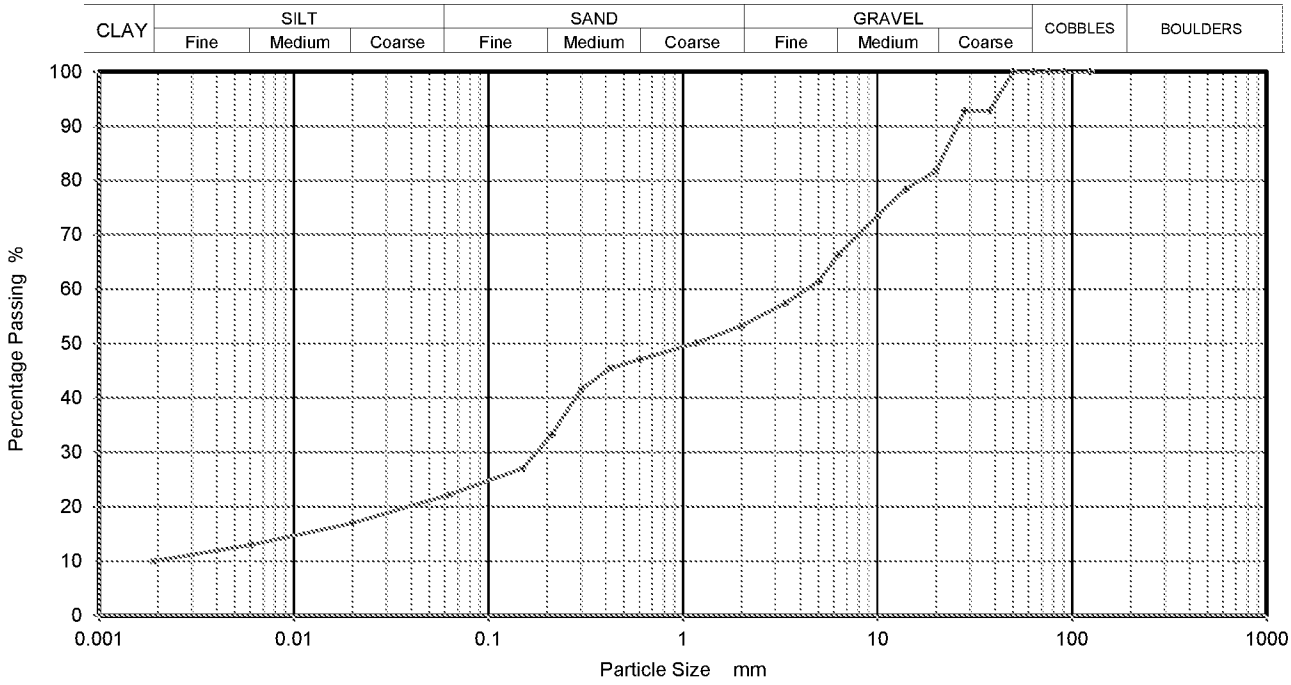
Preparation and testing in accordance with BS1377 unless noted below

Operators	Checked	15/11/2019	Wayne Honey
RO/MH	Approved	16/11/2019	Paul Evans

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[redacted]

GSTL	PARTICLE SIZE DISTRIBUTION BS 1377 Part 2:1990 Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4	Contract Number	46398
		Borehole/Pit No.	IT43
Site Name	Hook Lane, Pagham	Sample No.	
Soil Description	Brown clayey silty fine to coarse sandy fine to coarse GRAVEL	Depth Top	0.80
		Depth Base	
Date Tested	13/11/2019	Sample Type	B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	17
90	100	0.0060	13
75	100	0.0020	10
63	100		
50	100		
37.5	93		
28	93		
20	82		
14	78		
10	73		
6.3	66		
5	61		
3.35	57		
2	53		
1.18	50		
0.6	47		
0.425	45		
0.3	42		
0.212	33		
0.15	27		
0.063	22		

Sample Proportions	% dry mass
Cobbles	0
Gravel	47
Sand	31
Silt	12
Clay	10

Remarks

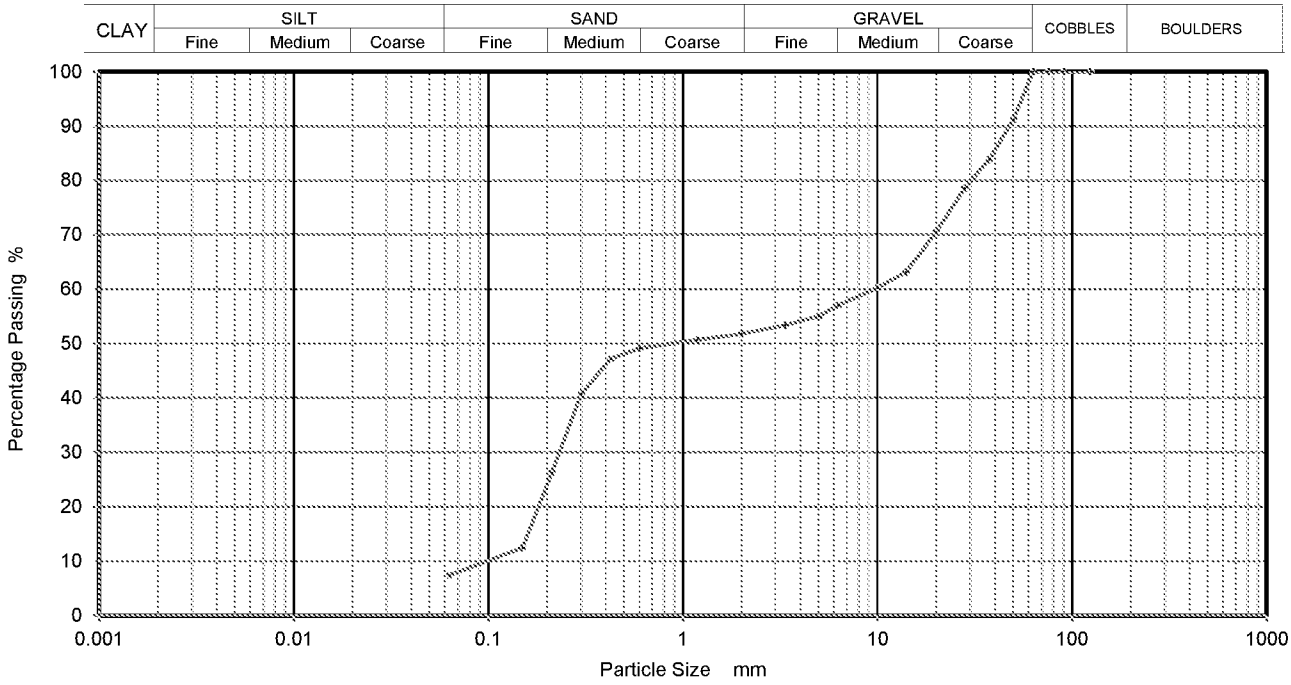
Preparation and testing in accordance with BS1377 unless noted below

Operators	Checked	15/11/2019	Wayne Honey
RO/MH	Approved	16/11/2019	Paul Evans

[redacted]

UKAS TESTING 2788

GSTL	PARTICLE SIZE DISTRIBUTION BS 1377 Part 2:1990 Wet Sieve, Clause 9.2	Contract Number	46398
		Borehole/Pit No.	TP01
Site Name	Hook Lane, Pagham	Sample No.	
Soil Description	Brown slightly silty/ clayey fine to coarse sandy fine to coarse GRAVEL	Depth Top	1.70
		Depth Base	
Date Tested	13/11/2019	Sample Type	B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	91		
37.5	84		
28	79		
20	70		
14	63		
10	60		
6.3	57		
5	55		
3.35	53		
2	52		
1.18	51		
0.6	49		
0.425	47		
0.3	41		
0.212	26		
0.15	12		
0.063	7		

Sample Proportions	% dry mass
Cobbles	0
Gravel	48
Sand	45
Silt and Clay	7

Remarks

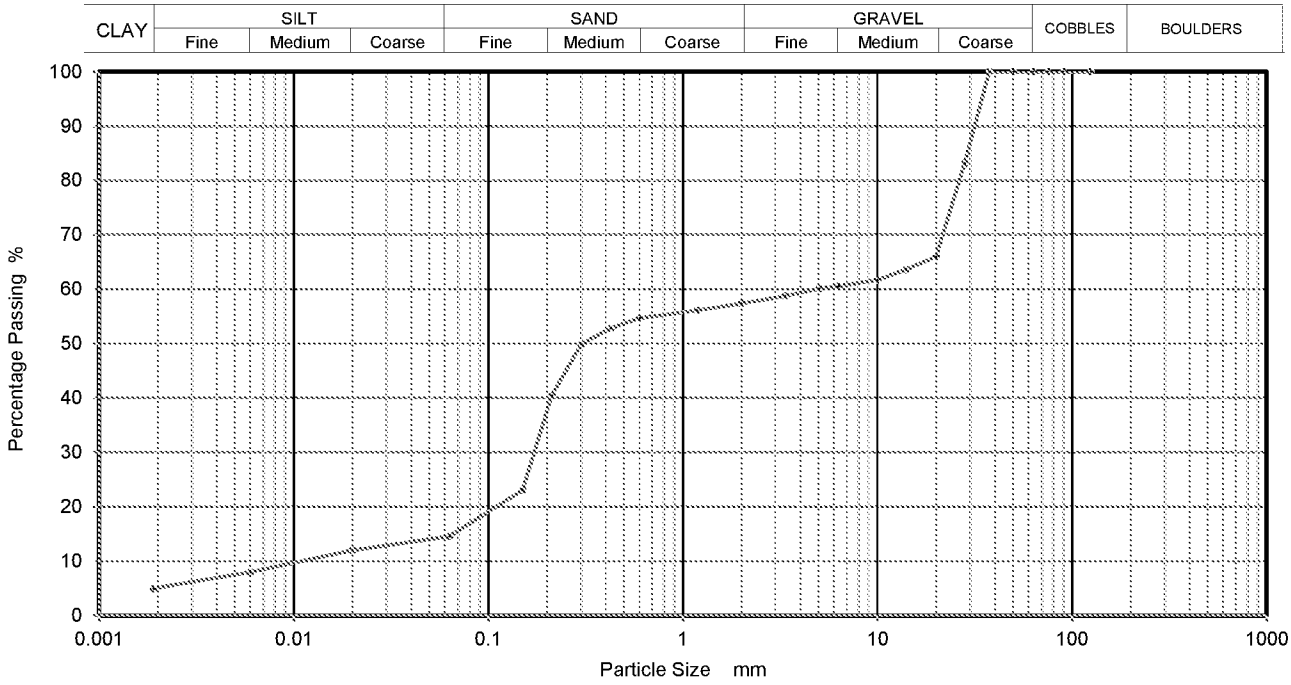
Preparation and testing in accordance with BS1377 unless noted below

Operators	Checked	15/11/2019	Wayne Honey
RO/MH	Approved	16/11/2019	Paul Evans

[redacted]

UKAS TESTING 2788

GSTL	PARTICLE SIZE DISTRIBUTION BS 1377 Part 2:1990 Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4	Contract Number	46398
		Borehole/Pit No.	TP03
Site Name	Hook Lane, Pagham	Sample No.	
Soil Description	Brown slightly clayey silty fine to coarse sandy fine to coarse GRAVEL	Depth Top	2.00
		Depth Base	
Date Tested	13/11/2019	Sample Type	B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	12
90	100	0.0060	8
75	100	0.0020	5
63	100		
50	100		
37.5	100		
28	83		
20	66		
14	64		
10	62		
6.3	61		
5	60		
3.35	59		
2	57		
1.18	56		
0.6	55		
0.425	53		
0.3	50		
0.212	40		
0.15	23		
0.063	15		

Sample Proportions	% dry mass
Cobbles	0
Gravel	43
Sand	42
Silt	10
Clay	5

Remarks

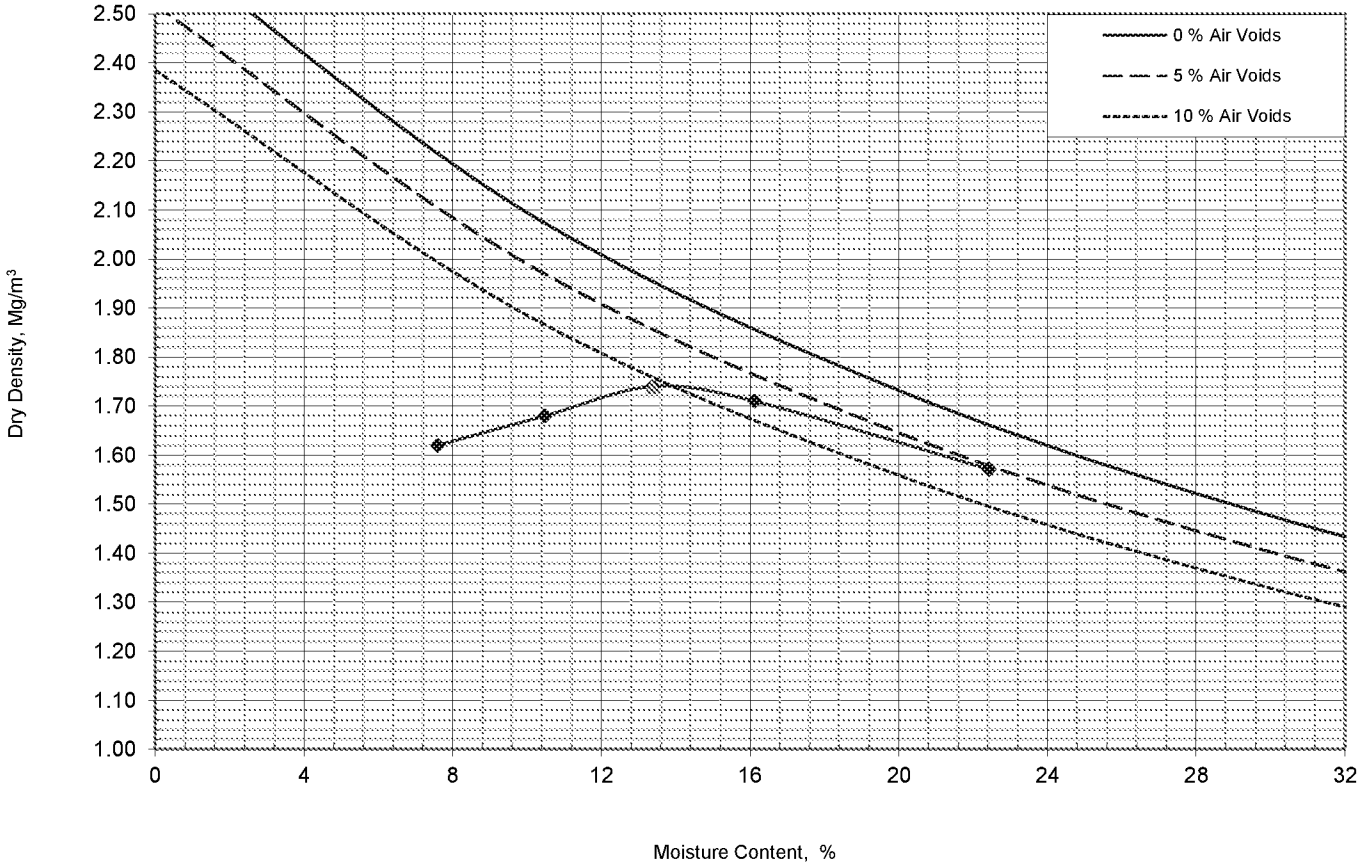
Preparation and testing in accordance with BS1377 unless noted below

Operators	Checked	15/11/2019	Wayne Honey
RO/MH	Approved	16/11/2019	Paul Evans

[redacted]

UKAS TESTING 2788

GSTL	Dry Density / Moisture Content Relationship BS 1377:Part 4:1990	Contract Number	46398
		Borehole / Pit No	TP06
Project Location	Hook Lane, Pagham	Sample No	
Date Tested	07/11/2019	Depth Top	1.20
Compaction Method	4.5 Kg Rammer	Depth Base	
Compaction Clause	BS1377:Part 4:1990, Clause 3.5	Sample Type	B
Sample Description	Brown sandy CLAY		



Compaction Point	1	2	3	4	5							
Moisture Content	7.6	10	13	16	22							
Bulk Density	1.74	1.86	1.97	1.99	1.92							
Dry Density	1.62	1.68	1.74	1.71	1.57							

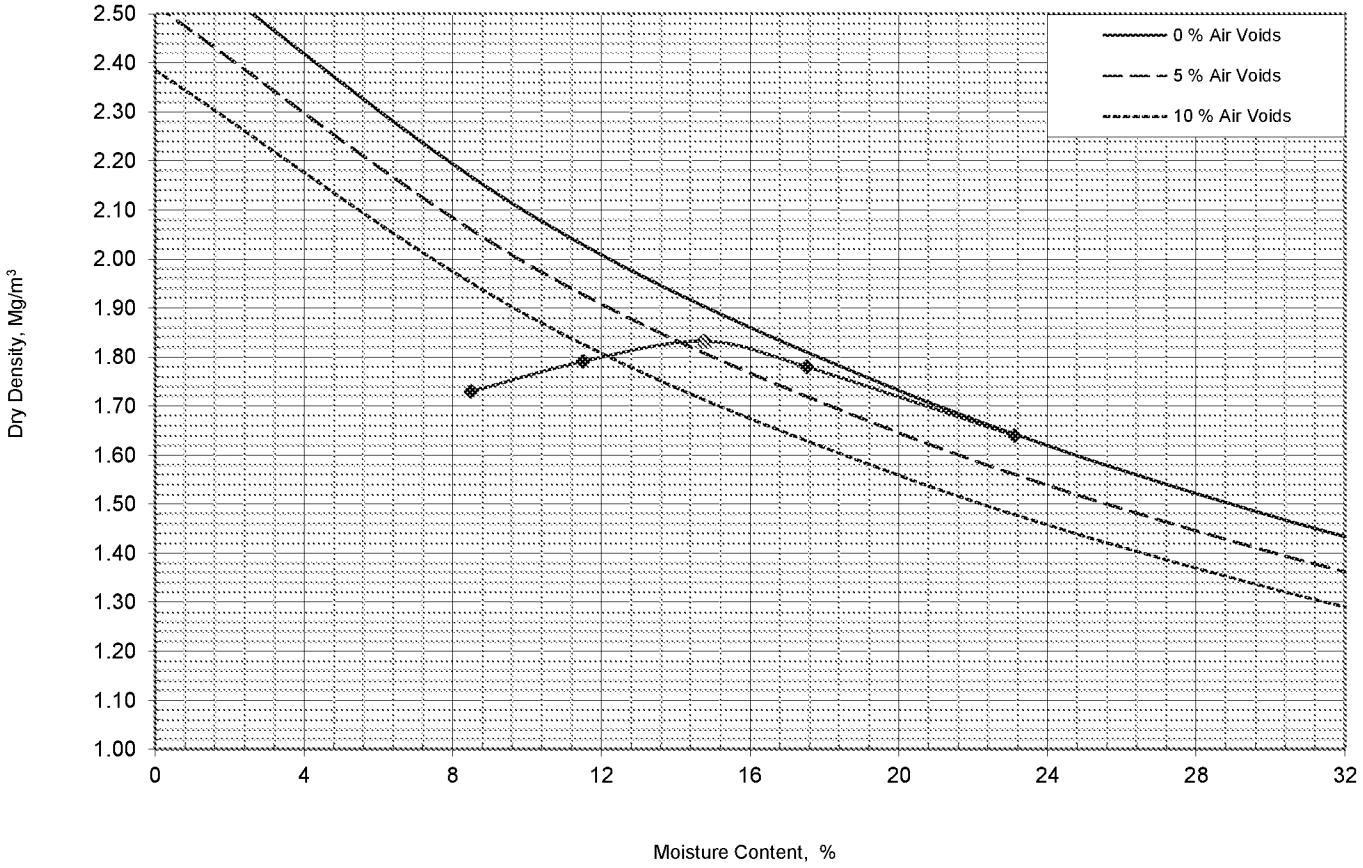
Initial Moisture Content	22	%
Maximum Dry Density	1.74	Mg/m3
Optimum Moisture Content	13	%
Particle Density	2.65 Assumed	Mg/m3
Material Retained 37.5mm	0	%
Material Retained 20mm	0	%

Operators	Checked	15/11/2019	Emma Sharp
CA	Approved	16/11/2019	Paul Evans

[redacted]

UKAS TESTING 2788

GSTL	Dry Density / Moisture Content Relationship BS 1377:Part 4:1990	Contract Number	46398
		Borehole / Pit No	TP13
Project Location	Hook Lane, Pagham	Sample No	
Date Tested	07/11/2019	Depth Top	1.20
Compaction Method	4.5 Kg Rammer	Depth Base	
Compaction Clause	BS1377:Part 4:1990, Clause 3.5	Sample Type	B
Sample Description	Brown fine to medium gravelly silty sandy CLAY		



Compaction Point	1	2	3	4	5							
Moisture Content	8.5	12	15	18	23							
Bulk Density	1.88	2.00	2.10	2.09	2.02							
Dry Density	1.73	1.79	1.83	1.78	1.64							

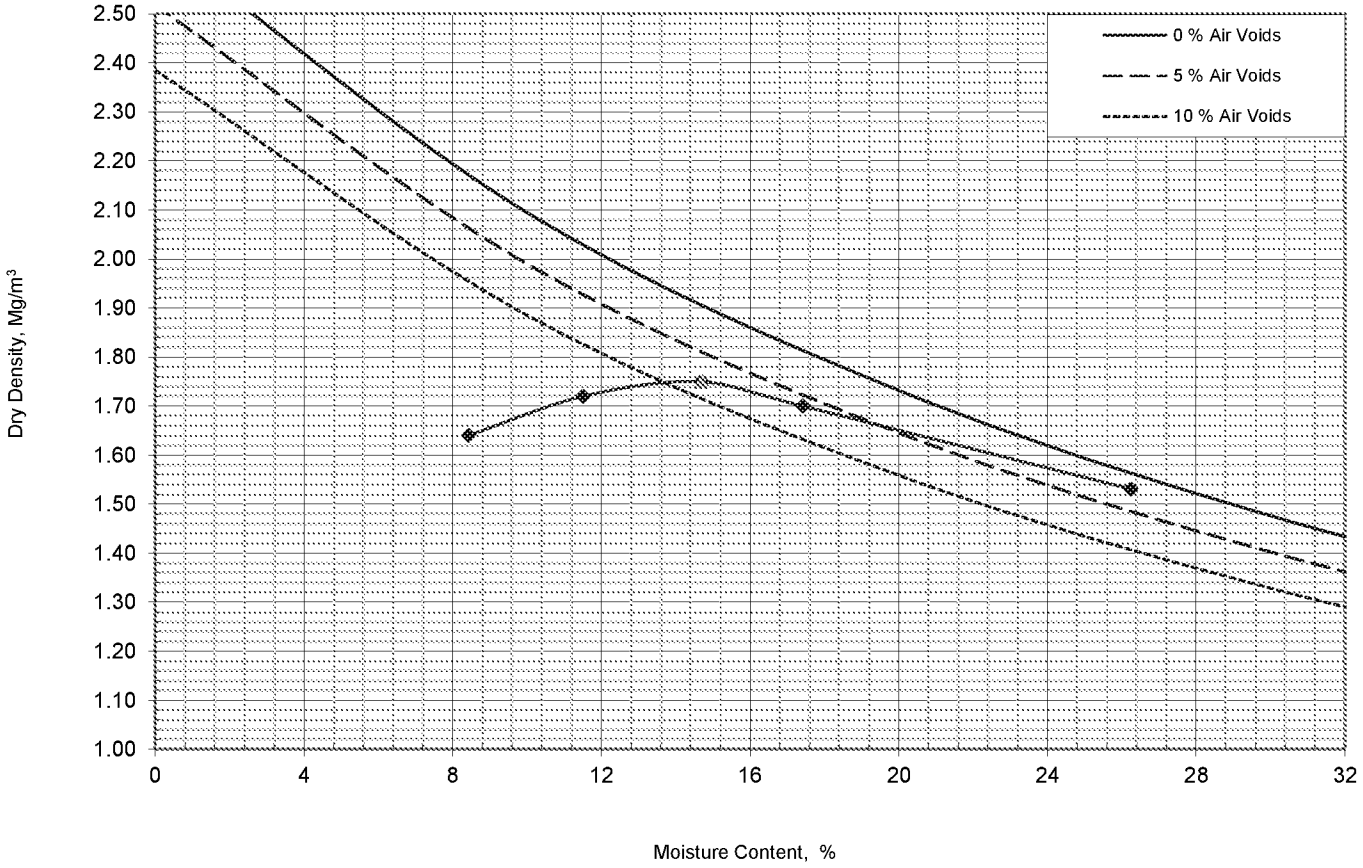
Initial Moisture Content	23	%
Maximum Dry Density	1.83	Mg/m3
Optimum Moisture Content	15	%
Particle Density	2.65 Assumed	Mg/m3
Material Retained 37.5mm	0	%
Material Retained 20mm	0	%

Operators	Checked	15/11/2019	Emma Sharp
CA	Approved	16/11/2019	Paul Evans

[redacted]

UKAS TESTING 2788

GSTL	Dry Density / Moisture Content Relationship BS 1377:Part 4:1990	Contract Number	46398
		Borehole / Pit No	TP26
Project Location	Hook Lane, Pagham	Sample No	
Date Tested	07/11/2019	Depth Top	1.00
Compaction Method	4.5 Kg Rammer	Depth Base	
Compaction Clause	BS1377:Part 4:1990, Clause 3.5	Sample Type	B
Sample Description	Brown fine to coarse gravelly silty CLAY		



Compaction Point	1	2	3	4	5							
Moisture Content	8.4	12	15	17	26							
Bulk Density	1.78	1.92	2.01	2.00	1.93							
Dry Density	1.64	1.72	1.75	1.70	1.53							

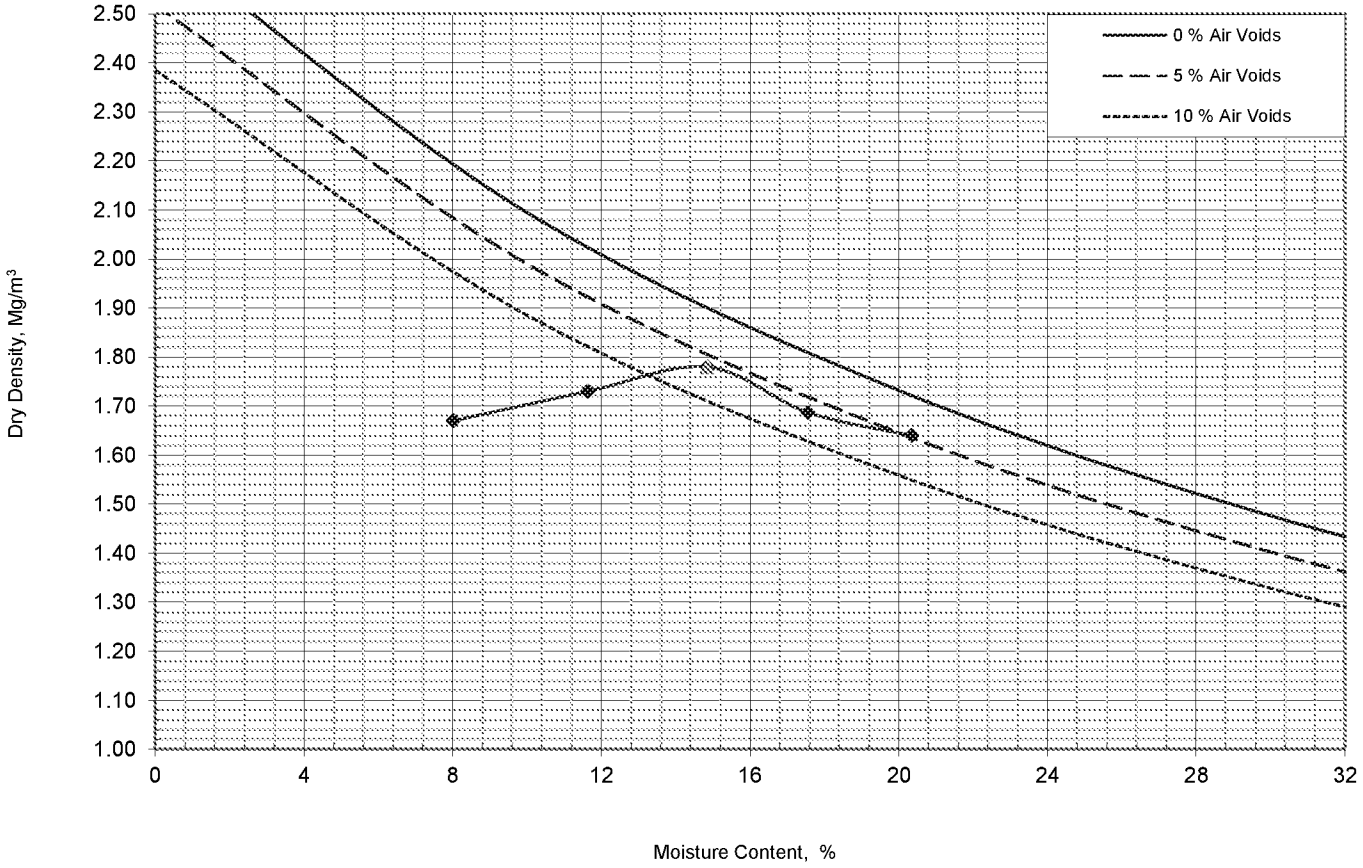
Initial Moisture Content	26	%
Maximum Dry Density	1.75	Mg/m3
Optimum Moisture Content	15	%
Particle Density	2.65 Assumed	Mg/m3
Material Retained 37.5mm	0	%
Material Retained 20mm	2.2	%

Operators	Checked	15/11/2019	Emma Sharp
CA	Approved	16/11/2019	Paul Evans

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GSTL	Dry Density / Moisture Content Relationship BS 1377:Part 4:1990	Contract Number	46398
		Borehole / Pit No	TP30
Project Location	Hook Lane, Pagham	Sample No	
Date Tested	07/11/2019	Depth Top	1.20
Compaction Method	4.5 Kg Rammer	Depth Base	
Compaction Clause	BS1377:Part 4:1990, Clause 3.5	Sample Type	B
Sample Description	Brown sandy CLAY		



Compaction Point	1	2	3	4	5							
Moisture Content	8.0	12	15	18	20							
Bulk Density	1.80	1.93	2.04	1.98	1.97							
Dry Density	1.67	1.73	1.78	1.69	1.64							

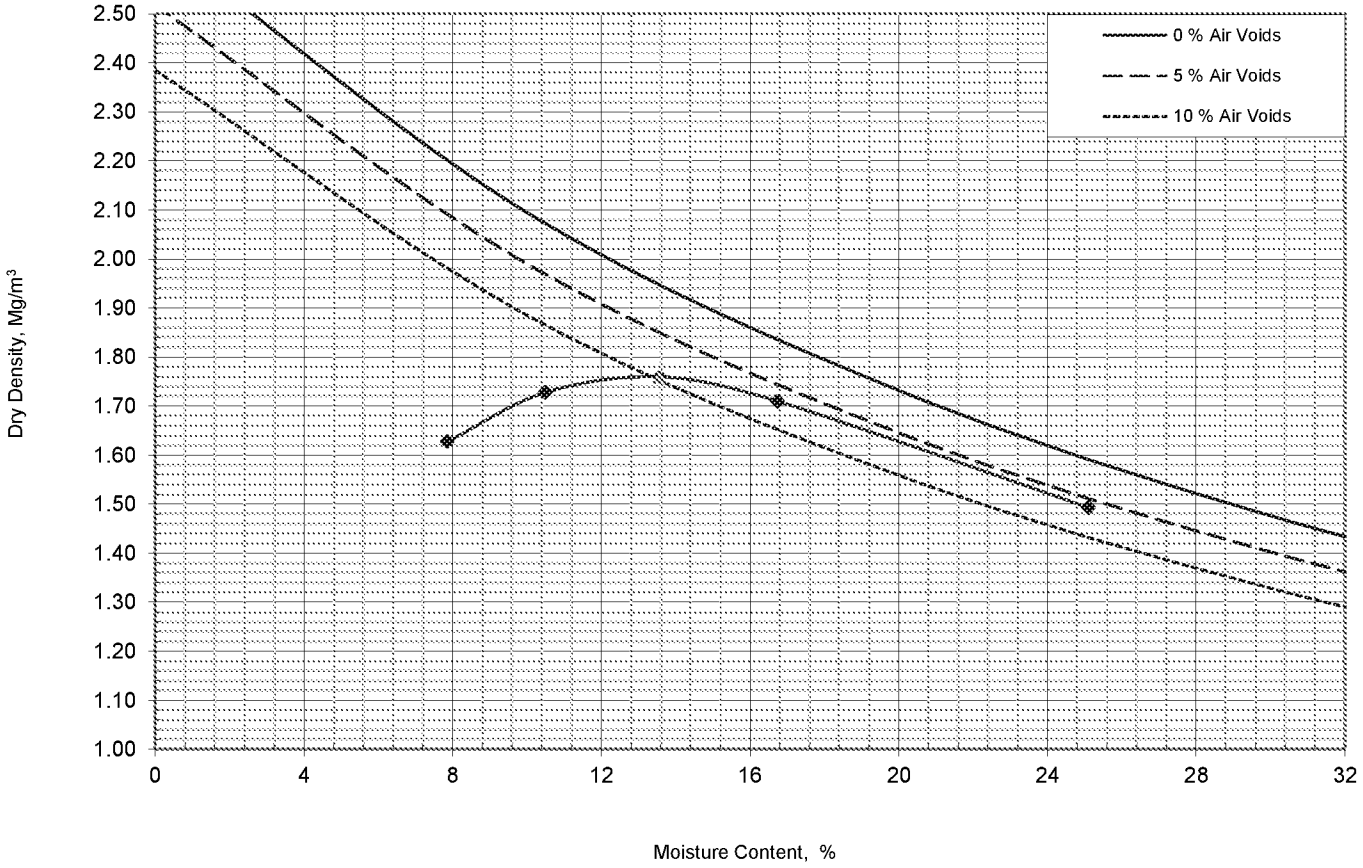
Initial Moisture Content	18	%
Maximum Dry Density	1.78	Mg/m3
Optimum Moisture Content	15	%
Particle Density	2.65 Assumed	Mg/m3
Material Retained 37.5mm	0	%
Material Retained 20mm	0	%

Operators	Checked	15/11/2019	Emma Sharp
CA	Approved	16/11/2019	Paul Evans

[redacted]

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GSTL	Dry Density / Moisture Content Relationship BS 1377:Part 4:1990	Contract Number	46398
		Borehole / Pit No	TP38
Project Location	Hook Lane, Pagham	Sample No	
Date Tested	07/11/2019	Depth Top	1.80
Compaction Method	4.5 Kg Rammer	Depth Base	
Compaction Clause	BS1377:Part 4:1990, Clause 3.5	Sample Type	B
Sample Description	Brown sandy CLAY		



Compaction Point	1	2	3	4	5							
Moisture Content	7.9	10	14	17	25							
Bulk Density	1.76	1.91	2.00	2.00	1.87							
Dry Density	1.63	1.73	1.76	1.71	1.49							

Initial Moisture Content	25	%
Maximum Dry Density	1.76	Mg/m3
Optimum Moisture Content	14	%
Particle Density	2.65 Assumed	Mg/m3
Material Retained 37.5mm	0	%
Material Retained 20mm	0	%

Operators	Checked	15/11/2019	Emma Sharp
CA	Approved	16/11/2019	Paul Evans

[redacted]

UKAS TESTING 2788

Laboratory Report

2788

GSTL
GEO Site & Testing Services Ltd

Contract Number: 46661

Client Ref: **GEG-19-623**
Client PO: **3532**

Report Date: **27-11-2019**

Client **GEG Limited**
17 Graham Road
Malvern
Worcestershire
WR14 2HR

Contract Title: **Hook Lane, Pagham**
For the attention of: **Nicholas Needham**

Date Received: **20-11-2019**
Date Completed: **27-11-2019**

Test Description	Qty
One-dimensional Consolidation 75mm or 50mm diameter specimens (5 days) BS 1377:1990 - Part 5 : 3 - * UKAS	3
Quick Undrained Triaxial Compression test - single specimen at one confining pressure (100mm or 38mm diameter) BS 1377:1990 - Part 7 : 8 - * UKAS	3
Disposal of samples for job	1

Notes: **Observations and interpretations are outside the UKAS Accreditation**
*** - denotes test included in laboratory scope of accreditation**
 # - denotes test carried out by approved contractor
@ - denotes non accredited tests

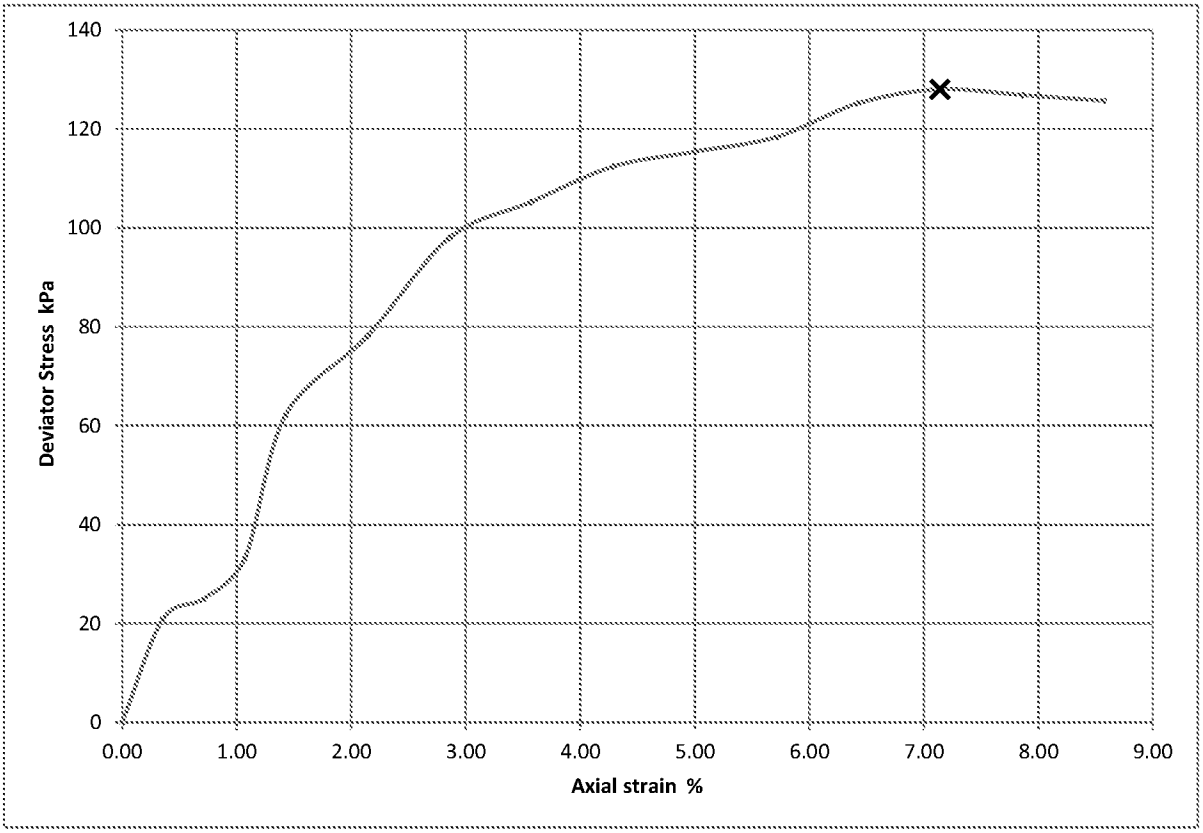
This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of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

Approved Signatories:
Emma Sharp (Office Manager) - Paul Evans (Quality/Technical Manager) - Richard John (Advanced Testing Manager)
Sean Penn (Administrative/Accounts Assistant) - Shaun Jones (Laboratory manager) - Wayne Honey (Administrative/Quality Assistant)

GEO Site & Testing Services Ltd
Unit 3-4, Heol Aur, Dafen Ind Estate, Dafen, Llanelli, Carmarthenshire SA14 8QN
Tel: 01554 784040 Fax: 01554 784041 info@gstl.co.uk gstl.co.uk

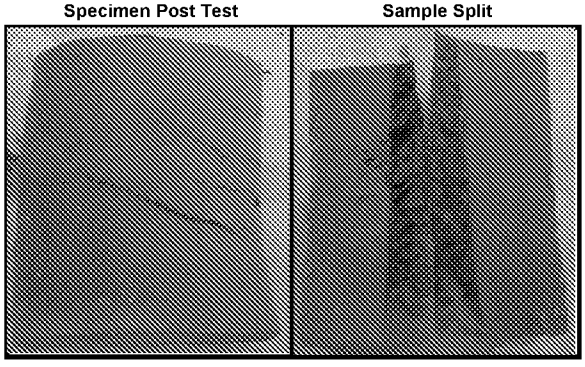
ARUN DISTRICT COUNCIL P/68/22/DOC

GSTL	Single Stage Unconsolidated-Undrained Triaxial Test BS 1377 : 1990 Part 7 : 8	Contract Number	46661
		Borehole/Pit No.	WS01
Site Name	Hook Lane, Pagham	Sample No.	
Soil Description	Brown silty CLAY	Depth Top (m)	5.00
		Depth Base (m)	5.50
Date Tested	20/11/2019	Sample Type	U



Moisture Content (%)	31
Bulk Density (Mg/m^3)	1.99
Dry Density (Mg/m^3)	1.52
Specimen Length (mm)	140
Specimen Diamteter (mm)	70
Cell Pressure (kPa)	100
Deviator Stress (kPa)	128
Undrained Shear Strength (kPa)	64
Failure Strain (%)	7
Mode Of Failure	Compound
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	2.14

Specimen Post Test **Sample Split**

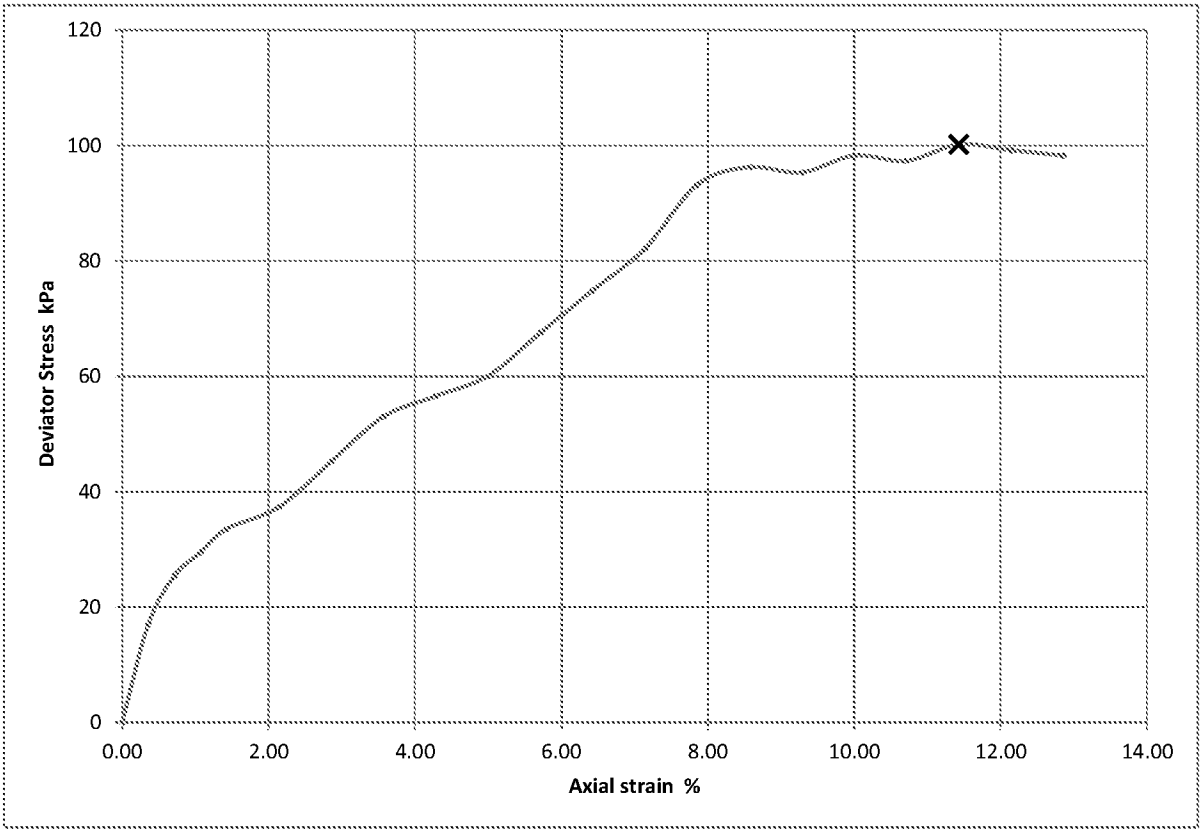


Checked	26/11/2019	Emma Sharp
Approved	27/11/2019	Paul Evans

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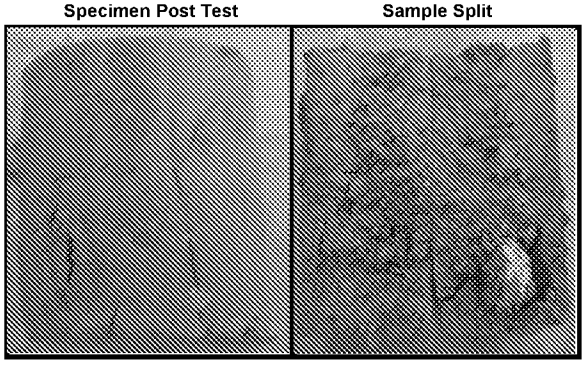
UKAS TESTING 2788

GSTL	Single Stage Unconsolidated-Undrained Triaxial Test BS 1377 : 1990 Part 7 : 8	Contract Number	46661
		Borehole/Pit No.	WS09
Site Name	Hook Lane, Pagham	Sample No.	
Soil Description	Brown silty sandy CLAY	Depth Top (m)	0.50
		Depth Base (m)	1.00
Date Tested	20/11/2019	Sample Type	U



Moisture Content (%)	18
Bulk Density (Mg/m^3)	2.06
Dry Density (Mg/m^3)	1.75
Specimen Length (mm)	140
Specimen Diamteter (mm)	70
Cell Pressure (kPa)	10
Deviator Stress (kPa)	100
Undrained Shear Strength (kPa)	50
Failure Strain (%)	11
Mode Of Failure	Compound
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	2.14

Specimen Post Test | Sample Split

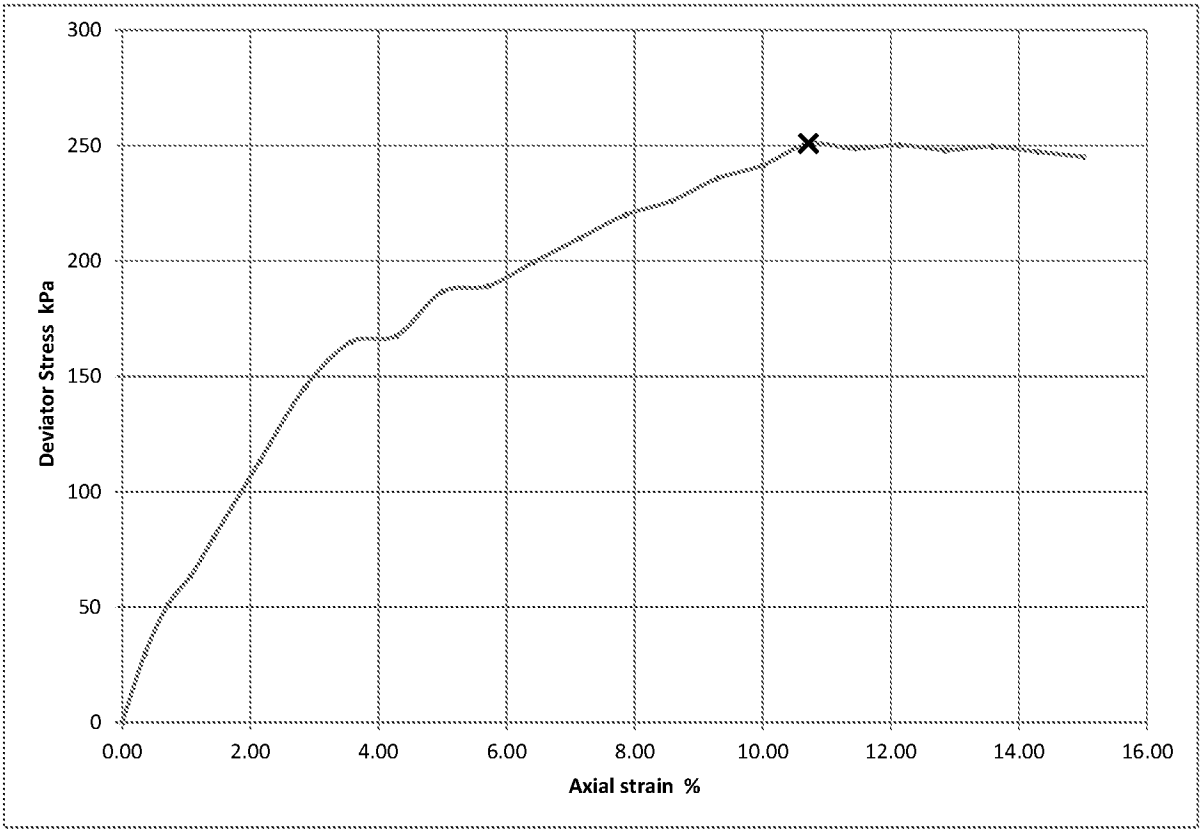


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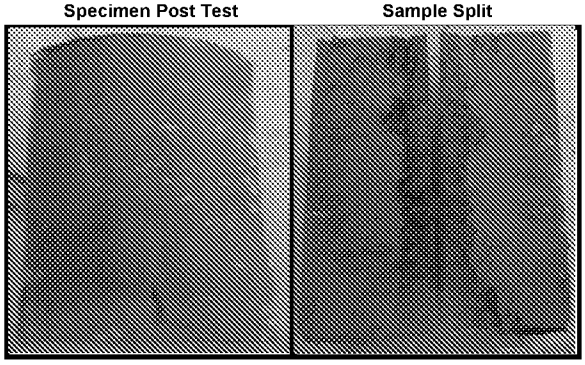
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GSTL	Single Stage Unconsolidated-Undrained Triaxial Test BS 1377 : 1990 Part 7 : 8	Contract Number	46661
		Borehole/Pit No.	WS09
Site Name	Hook Lane, Pagham	Sample No.	
Soil Description	Brown silty CLAY	Depth Top (m)	4.50
		Depth Base (m)	5.00
Date Tested	20/11/2019	Sample Type	U



Moisture Content (%)	24
Bulk Density (Mg/m^3)	1.99
Dry Density (Mg/m^3)	1.61
Specimen Length (mm)	140
Specimen Diamteter (mm)	70
Cell Pressure (kPa)	90
Deviator Stress (kPa)	251
Undrained Shear Strength (kPa)	125
Failure Strain (%)	11
Mode Of Failure	Plastic
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	2.14

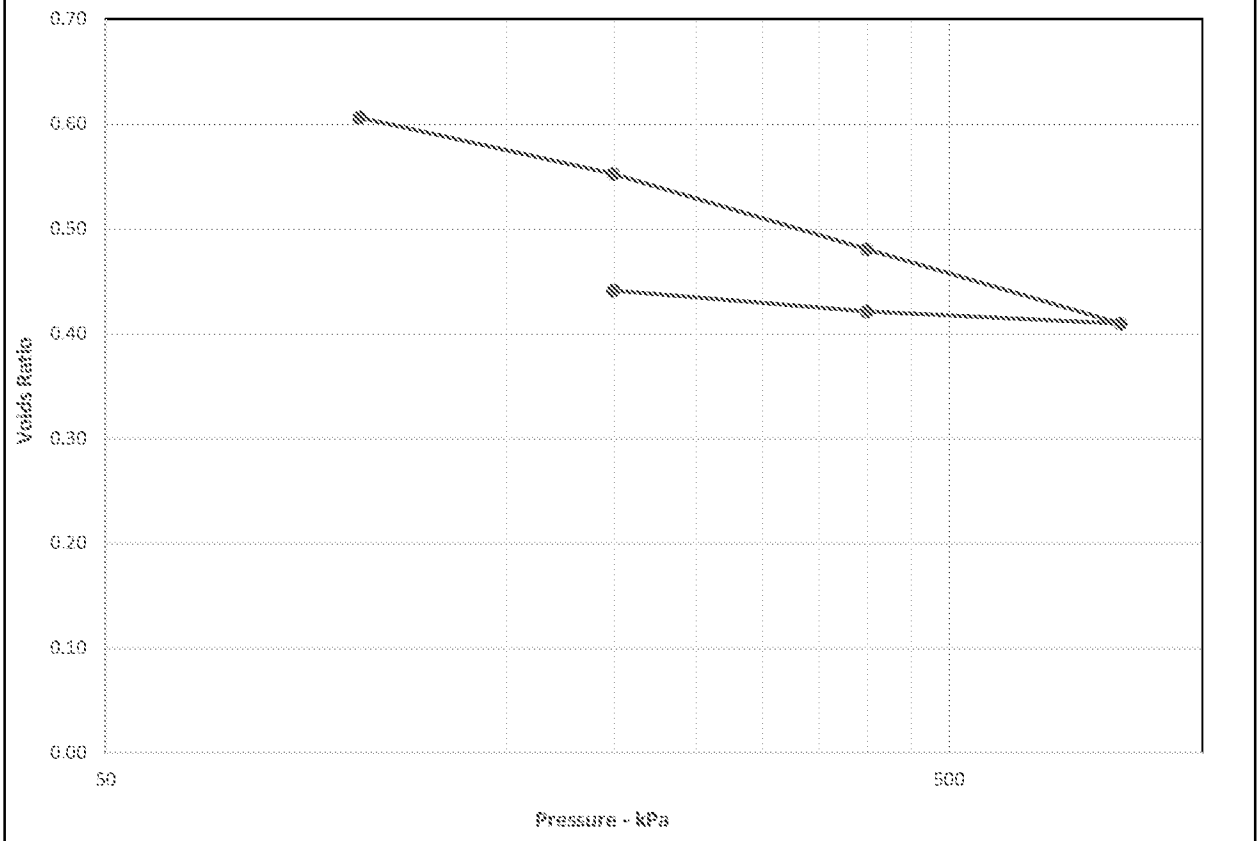
Specimen Post Test | Sample Split



Checked	26/11/2019	Emma Sharp
Approved	27/11/2019	Paul Evans

[redacted]

GSTL	ONE DIMENSIONAL CONSOLIDATION TEST BS1377:Part 5:1990, clause 3	Contract Number	46661
		Borehole/Trialpit No.	WS01
Site Name	Hook Lane, Pagham	Sample No.	
Soil Description	Brown silty CLAY	Depth Top (m)	5.00
		Depth Base (m)	5.50
Lab Temperature	20°c	Sample Location	Middle
Remarks	Cv Calculated Using T90 Particle Density Assumed Unless Stated Otherwise	Sample Type	U
Date Tested	20/11/2019		



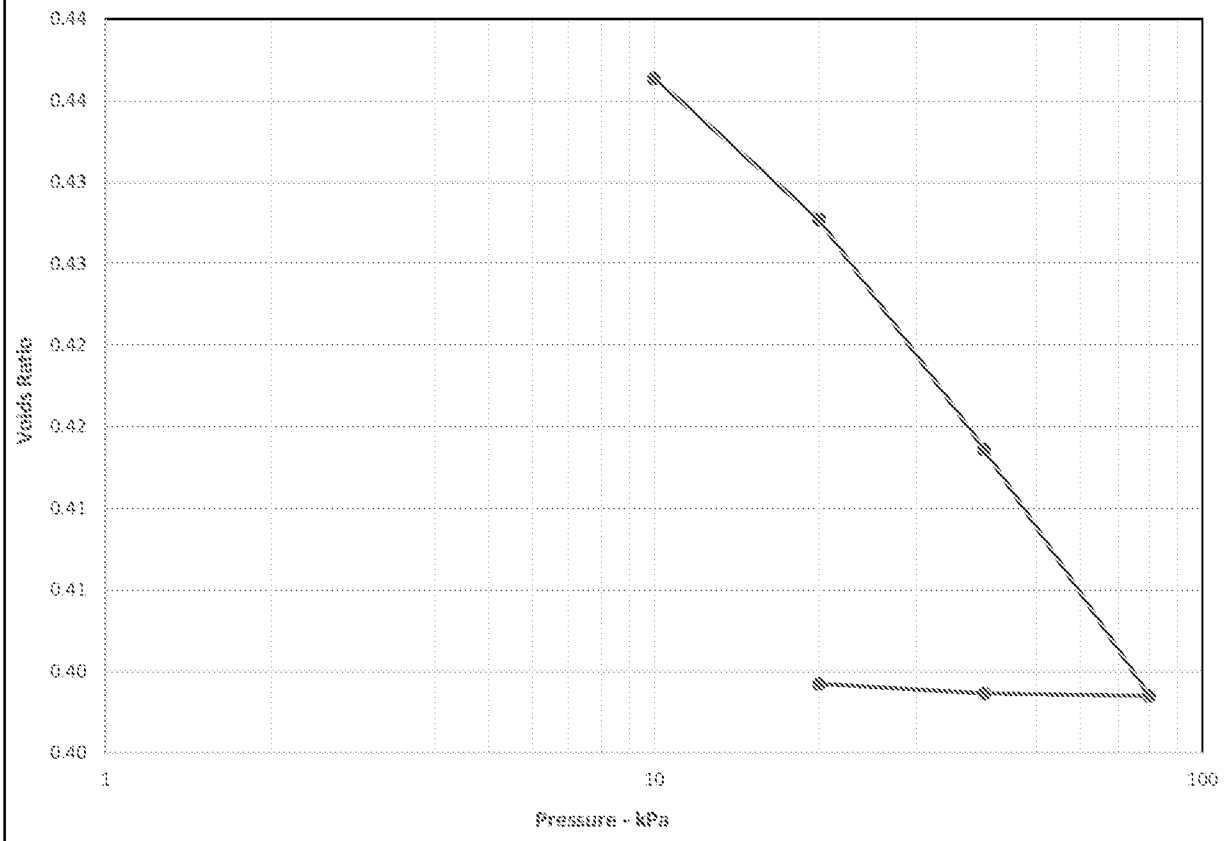
Initial Sample Conditions		Pressure Range			Mv m2/MN	Cv m2/yr	Pressure Range			Mv m2/MN	Cv m2/yr
Moisture Content (%)	25	0	-	100	0.38	7.3		-			
Bulk Density (Mg/m3)	1.98	100	-	200	0.33	6		-			
Dry Density (Mg/m3)	1.59	200	-	400	0.23	3.1		-			
Voids Ratio	0.6702	400	-	800	0.1	3.5		-			
Degree of saturation	99.2	800	-	400	0.02	2.7		-			
Height (mm)	19.95	400	-	200	0.071	1.3		-			
Diameter (mm)	50.02		-					-			
Particle Density (Mg/m3)	2.65		-					-			

Operators	Checked	26/11/2019	Emma Sharp
LG	Approved	27/11/2019	Paul Evans

[redacted]

UKAS TESTING 2788

GSTL	ONE DIMENSIONAL CONSOLIDATION TEST BS1377:Part 5:1990, clause 3	Contract Number	46661
		Borehole/Trialpit No.	WS09
Site Name	Hook Lane, Pagham	Sample No.	
Soil Description	Brown silty sandy CLAY	Depth Top (m)	0.50
		Depth Base (m)	1.00
Lab Temperature	20°c	Sample Location	Middle
Remarks	Cv Calculated Using T90 Particle Density Assumed Unless Stated Otherwise	Sample Type	U
Date Tested	20/11/2019		



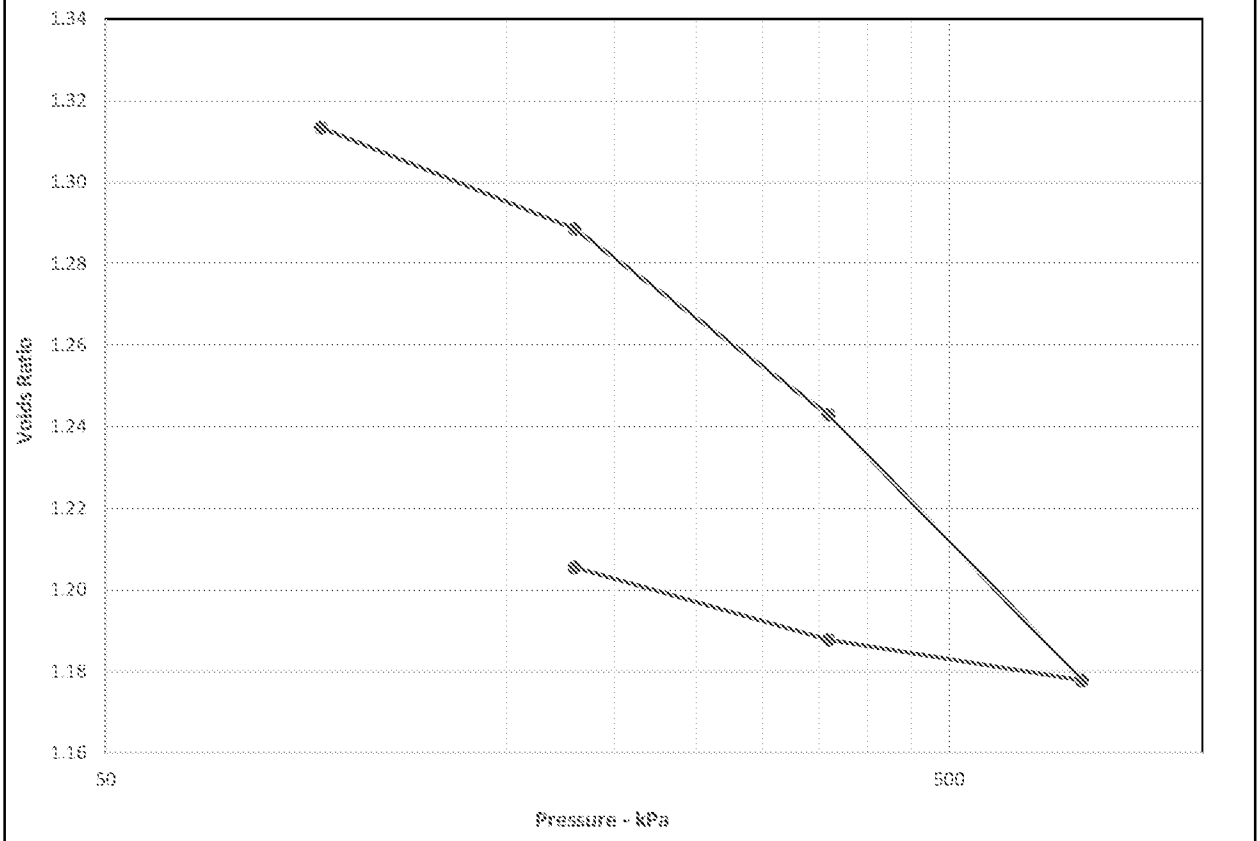
Initial Sample Conditions		Pressure Range			Mv m2/MN	Cv m2/yr	Pressure Range			Mv m2/MN	Cv m2/yr
Moisture Content (%)	17	0	-	10	0.82	3.7		-			
Bulk Density (Mg/m3)	2.13	10	-	20	0.6	6.5		-			
Dry Density (Mg/m3)	1.83	20	-	40	0.49	10		-			
Voids Ratio	0.4483	40	-	80	0.3	11		-			
Degree of saturation	97.7	80	-	40	0.0026	8.2		-			
Height (mm)	19.73	40	-	20	0.021	6.9		-			
Diameter (mm)	74.79		-					-			
Particle Density (Mg/m3)	2.65		-					-			

Operators	Checked	26/11/2019	Emma Sharp
LG	Approved	27/11/2019	Paul Evans

[redacted]

UKAS TESTING 2788

GSTL	ONE DIMENSIONAL CONSOLIDATION TEST BS1377:Part 5:1990, clause 3	Contract Number	46661
		Borehole/Trialpit No.	WS09
Site Name	Hook Lane, Pagham	Sample No.	
Soil Description	Dark brown silty CLAY	Depth Top (m)	4.50
		Depth Base (m)	5.00
Lab Temperature	20°c	Sample Location	Middle
Remarks	Cv Calculated Using T90 Particle Density Assumed Unless Stated Otherwise	Sample Type	U
Date Tested	20/11/2019		



Initial Sample Conditions		Pressure Range			Mv m2/MN	Cv m2/yr	Pressure Range			Mv m2/MN	Cv m2/yr
Moisture Content (%)	24	0	-	90	0.0061	18		-			
Bulk Density (Mg/m3)	1.42	90	-	180	0.12	10		-			
Dry Density (Mg/m3)	1.14	180	-	360	0.11	11		-			
Voids Ratio	1.3147	360	-	720	0.1	6.7		-			
Degree of saturation	49.2	720	-	360	0.013	8.6		-			
Height (mm)	19.95	360	-	180	0.045	6.2		-			
Diameter (mm)	59.87		-					-			
Particle Density (Mg/m3)	2.65		-					-			

Operators	Checked	26/11/2019	Emma Sharp
LG	Approved	27/11/2019	Paul Evans

[redacted]

UKAS TESTING 2788

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Appendix B– Drainage Strategy and Supporting Calculations

ARUN DISTRICT COUNCIL P/68/22/DOC

Original Drawing Size A1

KEY:

- Site Boundary
- Existing Foul Water Sewers
- Separate Existing SW Catchment Area
- Proposed SW Catchment Areas
- Proposed Surface Water Sewers
- Proposed Foul Water Sewers
- Proposed foul pumping main
- Proposed surface water control chamber
- Proposed headwall
- 3m Watercourse buffer zone

Surface Water Catchment 3

Development Area (ha):	3.00
Impermeable Area 60% (ha):	1.80
Detention Feature:	Pond 3

Pond 3

Downstream Control:	Hydrobrake
Total Storage Volume (m3):	1,561
Min top of bank level:	5.0mAOD
Bed Level:	3.7mAOD
Side Slopes:	1 in 4
Discharge rate (litres/sec):	4.41*
Outfall:	Watercourse

* Qbar rate 6.30 l/s deduct 1.89 l/s for flows to separate outfall.

Existing culvert to be removed

Bed Lvl IL 3.29

SW IL 3.47

FW MH IL 4.20

FW PS 1
CL 6.10mAOD
IL 3.40mAOD
2 Pumps
Emergency Storage Required: 10.5 m³
Emergency Storage Proposed: 10.5 m³
Provide within site and wet Sumpline to upstream network to prevent surcharge

SW IL 3.75

SW IL 3.95

FFL 5.85

FW MH IL 4.94

SW IL 5.10

FW MH IL 4.78

Bed Lvl IL 3.29

Surface Water Catchment 1B

Development Area (ha):	0.56
Impermeable Area 60% (ha):	0.34
Detention Feature:	Pond 1B

Pond 1B

Downstream Control:	Hydrobrake
Total Storage Volume (m3):	296
Min top of bank level:	5.13mAOD
Bed level:	3.75mAOD
Side Slopes:	1 in 4
Discharge rate (litres/sec):	11.76 (Qbar)
Outfall:	Watercourse

Surface Water Catchment 1A+1B

Development Area (ha):	5.22
Impermeable Area 60% (ha):	3.13
Care Home Impermeable Area (ha):	0.23
Total Catchment Area (ha):	3.36
Detention Feature:	Ponds 1A+1B

Surface Water Catchment 2

Development Area (ha):	1.98
Impermeable Area 60% (ha):	1.19
Detention Feature:	Pond 2

Pond 2

Downstream Control:	Hydrobrake
Total Storage Volume (m3):	951
Min top of bank level:	6.4mAOD
Bed Level:	5.1mAOD
Side Slopes:	1 in 4
Discharge rate (litres/sec):	4.17
Outfall:	Watercourse

FFL 6.50

SW IL 4.00

FW MH IL 5.13

FW MH IL 4.92

Bed Lvl IL 5.06

SW MH CL 6.8 IL 5.06

Bed Lvl IL 4.29

Surface Water Catchment 1A

Development Area (ha):	4.66
Impermeable Area 60% (ha):	2.79
Care Home Impermeable Area (ha):	0.23
Total Catchment Area (ha):	3.02
Detention Feature:	Pond 1A

Pond 1A

Downstream Control:	Hydrobrake
Total Storage Volume (m3):	2,359
Min top of bank level:	5.8mAOD
Bed level:	4.0mAOD
Side Slopes:	1 in 4
Discharge rate (litres/sec):	10.57 (Qbar)
Outfall:	Pond 1B

SW IL 4.10

FW MH IL 4.49

SW MH CL 6.67 IL 4.46

FFL 6.40

FFL 6.40

SW IL 4.22

Separate Surface Water Catchment

Development Area (ha):	0.90
Impermeable Area 60% (ha):	0.54
Discharge Rate (litres/second):	1.89 (Qbar)
Outfall:	Gully

FW MH IL 4.32

SW IL 4.38

SW MH CL 6.5 IL 4.69

FW POS CL 5.70mAOD IL 4.20mAOD Assumed 0.1 full

FFL 6.50

FFL 6.40

SW MH FW 6041

SW MH CL 6.5 IL 4.47

EXISTING PUMPING MAINS TO BE DIVERTED

CARE HOME

225Ø

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6. This drawing has been prepared for planning purposes only it is not for tender of construction.
7. All finished floor levels shown are indicative and are subject to refinement following completion of the detailed design.
8. All drainage details are indicative and subject to refinement following completion of the detailed design.

M	Masterplan updated HALL200505SL01F Separate catchment area shown. Pond 3 discharge rate reduced, pond size amended.	LF	SM	RM	21.05.21
L	Masterplan updated	LF	RM	RM	13.05.21
K	3m buffer zone indicated. Catchments & basins updated.	DC	SM	RM	29.04.21
J	Update to suit LLFA comments	LF	SM	RM	31.03.21
H	Latest site layout added.	LF	SM	RM	10.12.20
G	Latest site layout added.	NJO	SM	RM	08.12.20
F	Latest site layout added.	NJO	SM	RM	02.12.20
E	Basin details amended.	NJO	SM	RM	26.11.20
D	Western swale profile amended, culvert crossings added	RM	SM	RM	28.10.20
C	Western swale profile amended	RM	SM	RM	20.10.20
B	Amended as per Urban Wilderness comments	BP	SM	RM	01.10.20
A	Watercourse diversion amended	LF	RM	RM	18.08.20
-	First Issue	LF	RM	RM	08.06.20

BROOKBANKS

6150 Knights Court, Solihull Parkway, Birmingham, B37 7WY
T +44 (0)121 329 4330 E mail@brookbanks.com
W brookbanks.com

Hallam Land Management

Hook Lane
Pagham

Surface & Foul Water Drainage Strategy

Status	Status Date
Information	June 2020

Drawn	Checked	Date
LF	RM	10.06.20

Scale	Number	Rev
1:1000	10461-DR-001	M

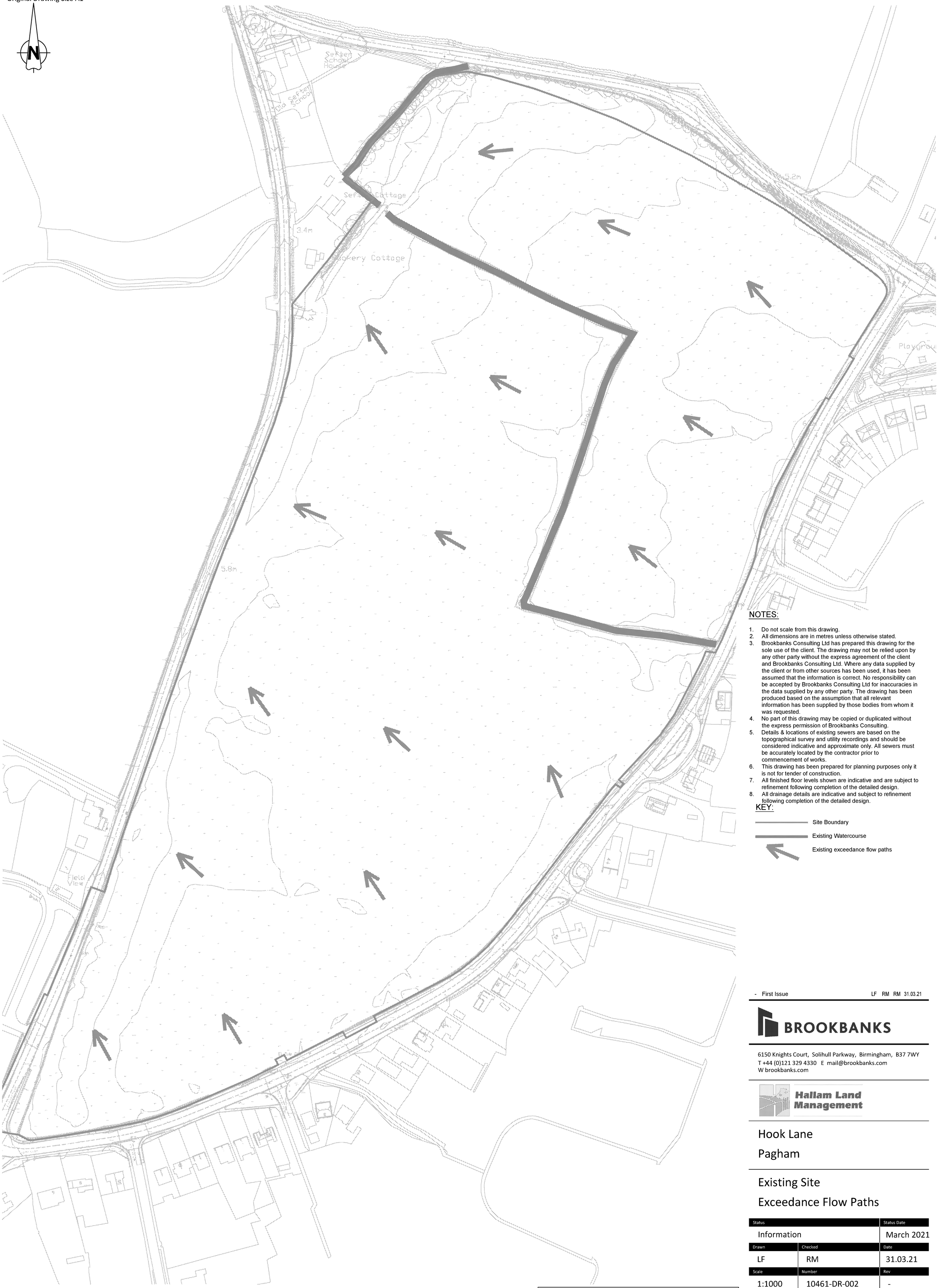
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METRES

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Original Drawing Size A1



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8. All drainage details are indicative and subject to refinement following completion of the detailed design.

KEY:

Site Boundary

Existing Watercourse

Existing exceedance flow paths

- First Issue LF RM RM 31.03.21

BROOKBANKS

6150 Knights Court, Solihull Parkway, Birmingham, B37 7WY
T +44 (0)121 329 4330 E mail@brookbanks.com
W brookbanks.com

Hallam Land Management

Hook Lane
Pagham

Existing Site
Exceedance Flow Paths

Status		Status Date
Information		March 2021
Drawn	Checked	Date
LF	RM	31.03.21
Scale	Number	Rev
1:1000	10461-DR-002	-

0 20 40 60 80 100
METRES

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