

		Geo Environmental Group Geotechnical, Environmental & Ecological Consultants  Geo Environmental Group GEG House 17 Graham Road Malvern WR14 2HR Client: Brookbanks Project: Pagham, West Sussex Project No.: GEG-19-623
Photo 41: Excavation of trial pit TP23.	Photo 42: Arisings from trial pit TP23.	
		
Photo 43: Excavation of trial pit TP24.	Photo 44: Arisings from trial pit TP24.	

		Geo Environmental Group Geotechnical, Environmental & Ecological Consultants  Geo Environmental Group GEG House 17 Graham Road Malvern WR14 2HR Client: Brookbanks Project: Pagham, West Sussex Project No.: GEG-19-623
Photo 45: Excavation of trial pit TP25.	Photo 46: Arisings from trial pit TP25.	
		
Photo 47: Excavation of trial pit TP26.	Photo 48: Arisings from trial pit TP26.	

		Geo Environmental Group Geotechnical, Environmental & Ecological Consultants  Geo Environmental Group GEG House 17 Graham Road Malvern WR14 2HR Client: Brookbanks Project: Pagham, West Sussex Project No.: GEG-19-623
Photo 49: Excavation of trial pit TP27.	Photo 50: Arisings from trial pit TP27.	
		
Photo 51: Excavation of trial pit TP28.	Photo 52: Arisings from trial pit TP28.	

		Geo Environmental Group Geotechnical, Environmental & Ecological Consultants  Geo Environmental Group GEG House 17 Graham Road Malvern WR14 2HR Client: Brookbanks Project: Pagham, West Sussex Project No.: GEG-19-623
Photo 53: Excavation of trial pit TP29.	Photo 54: Arisings from trial pit TP29.	
		
Photo 55: Excavation of trial pit TP30.	Photo 56: Arisings from trial pit TP30.	

		Geo Environmental Group Geotechnical, Environmental & Ecological Consultants  Geo Environmental Group GEG House 17 Graham Road Malvern WR14 2HR Client: Brookbanks Project: Pagham, West Sussex Project No.: GEG-19-623
Photo 57: Excavation of trial pit TP31.	Photo 58: Arisings from trial pit TP31.	
		
Photo 59: Excavation of trial pit TP32.	Photo 60: Arisings from trial pit TP32.	

		Geo Environmental Group Geotechnical, Environmental & Ecological Consultants  Geo Environmental Group GEG House 17 Graham Road Malvern WR14 2HR Client: Brookbanks Project: Pagham, West Sussex Project No.: GEG-19-623
Photo 61: Excavation of trial pit TP34.	Photo 62: Arisings from trial pit TP34.	
		
Photo 63: Excavation of trial pit TP35.	Photo 64: Arisings from trial pit TP35.	

		Geo Environmental Group Geotechnical, Environmental & Ecological Consultants  Geo Environmental Group GEG House 17 Graham Road Malvern WR14 2HR Client: Brookbanks Project: Pagham, West Sussex Project No.: GEG-19-623
Photo 65: Excavation of trial pit TP36.	Photo 66: Arisings from trial pit TP36.	
		
Photo 67: Excavation of trial pit TP37.	Photo 68: Arisings from trial pit TP37.	

		Geo Environmental Group Geotechnical, Environmental & Ecological Consultants  Geo Environmental Group GEG House 17 Graham Road Malvern WR14 2HR Client: Brookbanks Project: Pagham, West Sussex Project No.: GEG-19-623
Photo 69: Excavation of trial pit TP38.	Photo 70: Arisings from trial pit TP38.	
		
Photo 71: Excavation of trial pit TP39.	Photo 72: Arisings from trial pit TP39.	



Photo 73: Excavation of trial pit TP44.



Photo 74: Arisings from trial pit TP44.



Photo 75: Excavation of trial pit IT41.

No Photograph

Photo 76: Arisings from trial pit IT41.

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17 Graham Road
Malvern
WR14 2HR

Client: Brookbanks

Project: Pagham, West Sussex

Project No.: GEG-19-623



Photo 77: Excavation of trial pit IT42.



Photo 78: Arisings from trial pit IT42.



Photo 79: Excavation of trial pit IT43.



Photo 80: Arisings from trial pit IT43.

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GEG House
17 Graham Road
Malvern
WR14 2HR

Client: Brookbanks

Project: Pagham, West Sussex

Project No.: GEG-19-623



APPENDIX C

EXPLORATORY HOLE LOGS



Borehole Log

Borehole No.

WS01

Sheet 1 of 1

Project Name: Hook Lane, Pagham

Project No.
GEG-19-623

Co-ords: 489737E - 99402N

Hole Type
WS

Location: Hook Lane, Pagham, PO21 3PD

Level:

Scale
1:36

Client: Brookbanks / Hallam Land Management

Dates: 23/10/2019

Logged By
NN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
		0.50		HVP=42	0.40			Firm orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
		1.00	SPT	N=6 (1,1/1,2,1,2)				<u>1.00-1.50m Becoming soft</u>	1.0
		1.50	PP	0.00	1.50			(Soft to very soft) sandy slightly gravelly silty CLAY. Gravel is fine to medium sub-angular flint. (RIVER TERRACE DEPOSITS)	1.5
		2.00	SPT	N=30 (2,3/5,7,8,10)	2.00			Medium dense to dense yellowish brown gravelly medium SAND. Gravel is medium sub-rounded flint. (RIVER TERRACE DEPOSITS)	2.0
								<u>2.50-3.40m Becoming grey</u>	2.5
		3.00	SPT	N=4 (1,1/1,1,1,1)				<u>3.00-3.40m Becoming very loose to loose</u>	3.0
					3.40			(Stiff) greyish brown CLAY. (LONDON CLAY FORMATION)	3.5
					3.70			Stiff dark grey silty CLAY. (LONDON CLAY FORMATION)	4.0
		4.00	SPT	N=23 (2,3/4,5,7,7)					4.5
		5.00 - 5.50	U					<u>5.00-5.50m QUT= 64 kPa. Becoming firm</u>	5.0
					5.50			End of Borehole at 5.500m	5.5
									6.0
									6.5

Remarks

1. No groundwater encountered. 2. HVP=Uncorrected Hand Vane Measurement. 3. PP = Pocket Penetrometer measurement in kPa. 4. 50mm standpipe installed 5m, response zone 5-1m, bentonite seal 1-0.3m, flush cover concreted 0.3-0m.





Borehole Log

Borehole No.

WS02

Sheet 1 of 1

Project Name: Hook Lane, Pagham

Project No.
GEG-19-623

Co-ords: 489725E - 99297N

Hole Type
WS

Location: Hook Lane, Pagham, PO21 3PD

Level:

Scale
1:36

Client: Brookbanks / Hallam Land Management

Dates: 23/10/2019

Logged By
NN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
					0.50			Very soft to soft greyish brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
		0.80		HVP=20				<u>0.80-2.00m Becoming soft</u>	
		1.00	SPT	N=5 (1,0/1,1,1,2)					1.0
									1.5
		2.00	SPT	N=4 (1,2/1,1,1,1)	2.00				2.0
									2.5
		3.00	SPT	N=7 (1,1/1,2,2,2)				<u>3.00-4.00m Becoming loose</u>	3.0
									3.5
		4.00	SPT	N=12 (2,1/2,3,3,4)	4.00			Firm greyish brown CLAY. (LONDON CLAY FORMATION)	4.0
					4.80			(Stiff) dark grey CLAY. (LONDON CLAY FORMATION)	4.5
					5.00			End of Borehole at 5.000m	5.0
									5.5
									6.0
									6.5

Remarks

1. No groundwater encountered. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion borehole backfilled with arisings.





Borehole Log

Borehole No.

WS03

Sheet 1 of 1

Project Name: Hook Lane, Pagham

Project No.
GEG-19-623

Co-ords: 489450E - 99223N

Hole Type
WS

Location: Hook Lane, Pagham, PO21 3PD

Level:

Scale
1:36

Client: Brookbanks / Hallam Land Management

Dates: 23/10/2019

Logged By
NN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
					0.40			(Soft) dark brown slightly sandy silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
		0.80		HVP=18				<u>0.80-1.00m Becoming very soft</u>	
		1.00	SPT	N=4 (1,1/1,1,1,1)				<u>1.00-1.50m Becoming very soft to soft</u>	1.0
		1.50		HVP=24				<u>1.50-1.80m Becoming soft</u>	1.5
		1.80		HVP=8				<u>1.80-2.00m Becoming (very soft)</u>	
		2.00	SPT	N=4 (2,2/1,1,1,1)	2.00			Very loose to loose SAND/GRAVEL. [Limited Recovery] (RIVER TERRACE DEPOSITS)	2.0
									2.5
		3.00	SPT	N=7 (1,2/1,2,2,2)				<u>3.00-4.00m Becoming loose</u>	3.0
									3.5
		4.00	SPT	N=14 (2,2/3,3,4,4)	4.00			Firm dark brown slightly sandy silty CLAY with lenses of sand and gravel. (RIVER TERRACE DEPOSITS)	4.0
					4.30			(Stiff) greyish brown CLAY. (LONDON CLAY FORMATION)	4.5
					4.90			(Stiff) dark greyish brown CLAY. (LONDON CLAY FORMATION)	5.0
					5.00			End of Borehole at 5.000m	
									5.5
									6.0
									6.5

Remarks

1. No groundwater encountered. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion borehole backfilled with arisings.





Borehole Log

Borehole No.

WS04

Sheet 1 of 1

Project Name: Hook Lane, Pagham

Project No.
GEG-19-623

Co-ords: 489612E - 99162N

Hole Type
WS

Location: Hook Lane, Pagham, PO21 3PD

Level:

Scale
1:36

Client: Brookbanks / Hallam Land Management

Dates: 23/10/2019

Logged By
NN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
					0.40			(Firm) reddish brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
		0.80		HVP=22				<u>0.80-1.00m Becoming soft</u>	
		1.00	SPT	N=10 (1,1/2,2,3,3)				<u>1.00-1.40m Becoming firm</u>	1.0
					1.40			(Soft) orangish brown sandy gravelly SILT. Gravel is fine sub-angular flint. (RIVER TERRACE DEPOSITS)	1.5
								<u>1.80-2.00m Becoming (very soft)</u>	2.0
		2.00	SPT	N=2 (1,1/1,0,0,1)	2.00			Very loose white medium SAND & GRAVEL of fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)	2.5
								<u>3.00-3.50m Becoming dense</u>	3.0
		3.00	SPT	N=34 (3,5/7,9,9,9)					3.5
					3.50			End of Borehole at 3.500m	3.5
									4.0
									4.5
									5.0
									5.5
									6.0
									6.5

Remarks

1. No groundwater encountered. 2. Sand and gravel jamming barrel at 2.00-3.50m. 3. HVP=Uncorrected Hand Vane Measurement. 4. Upon completion borehole backfilled with arisings.





Borehole Log

Borehole No.

WS05

Sheet 1 of 1

Project Name: Hook Lane, Pagham

Project No.
GEG-19-623

Co-ords: 489673E - 99069N

Hole Type
WS

Location: Hook Lane, Pagham, PO21 3PD

Level:

Scale
1:36

Client: Brookbanks / Hallam Land Management

Dates: 24/10/2019

Logged By
NN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
					0.30			(Firm) yellowish brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
		0.80		HVP=18				0.60-2.00m Becoming very soft	
		1.00	SPT	N=1 (0,0/0,0,1,0)					1.0
		1.40		HVP=4					1.5
		2.00	SPT	N=11 (1,0/1,3,3,4)	2.00			Medium dense yellowish brown silty gravelly SAND. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)	2.0
					2.50			(Soft to firm) reddish brown silty CLAY. (RIVER TERRACE DEPOSITS)	2.5
		3.00	SPT	N=11 (2,2/3,3,2,3)	3.00			Firm dark grey CLAY. (LONDON CLAY FORMATION)	3.0
									3.5
		4.00	SPT	N=14 (1,2/3,3,4,4)					4.0
									4.5
					5.00			End of Borehole at 5.000m	5.0
									5.5
									6.0
									6.5

Remarks

1. No groundwater encountered. 2. HVP=Uncorrected Hand Vane Measurement. 3. 50mm standpipe installed 5m, response zone 5-1m, bentonite seal 1-0.3m, flush cover concreted 0.3-0m.





Borehole Log

Borehole No.

WS06

Sheet 1 of 1

Project Name: Hook Lane, Pagham

Project No.
GEG-19-623

Co-ords: 489393E - 99068N

Hole Type
WS

Location: Hook Lane, Pagham, PO21 3PD

Level:

Scale
1:36

Client: Brookbanks / Hallam Land Management

Dates: 24/10/2019

Logged By
NN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
					0.30			(Firm) brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
		0.60		HVP=18				<i>0.60-0.80m Becoming very soft</i>	
		1.00	SPT	N=15 (3,5/5,4,3,3)				<i>0.80-1.45m Becoming firm to stiff</i>	1.0
					1.45			(Very soft to soft) sandy slightly gravelly silty CLAY with occasional lenses of sand. Gravel is fine chalk and flint. (RIVER TERRACE DEPOSITS)	1.5
		2.00	SPT	N=14 (3,4/5,4,3,2)	1.90			Medium dense yellowish brown silty SAND & GRAVEL of fine to medium flint, chalk and quartzite. (RIVER TERRACE DEPOSITS)	2.0
		3.00	SPT	N=20 (3,3/2,5,6,7)					2.5
					3.45			End of Borehole at 3.450m	3.5
									4.0
									4.5
									5.0
									5.5
									6.0
									6.5

Remarks

1. No groundwater encountered. 2. HVP=Uncorrected Hand Vane Measurement. 3. Upon completion borehole backfilled with arisings.





Borehole Log

Borehole No.

WS07

Sheet 1 of 1

Project Name: Hook Lane, Pagham

Project No.
GEG-19-623

Co-ords: 489349E - 98944N

Hole Type
WS

Location: Hook Lane, Pagham, PO21 3PD

Level:

Scale
1:36

Client: Brookbanks / Hallam Land Management

Dates: 24/10/2019

Logged By
NN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		1.00	SPT	N=35 (4,5/8,10,8,9)	0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
					0.40			(Firm) brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
					0.80			(Soft) brown sandy gravelly silty CLAY. Gravel is medium sub-rounded flint. (RIVER TERRACE DEPOSITS)	1.0
		2.00	SPT	N=6 (2,1/2,1,1,2)	1.00			Dense greyish brown silt gravelly SAND. Gravel is fine sub-angular chalk and flint. (RIVER TERRACE DEPOSITS)	1.5
					1.80			Soft pinkish brown CLAY. (NATURALLY REWORKED LONDON CLAY FORMATION)	2.0
		3.00	SPT	N=13 (2,2/3,3,3,4)	2.70			Firm dark grey silty CLAY. (LONDON CLAY FORMATION)	2.5
					3.45			End of Borehole at 3.450m	3.0
									3.5
									4.0
									4.5
									5.0
									5.5
									6.0
									6.5

Remarks

1. No groundwater encountered. 2. Upon completion borehole backfilled with arisings.





Borehole Log

Borehole No.

WS08

Sheet 1 of 1

Project Name: Hook Lane, Pagham

Project No.
GEG-19-623

Co-ords: 489560E - 98942N

Hole Type
WS

Location: Hook Lane, Pagham, PO21 3PD

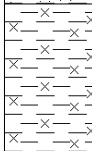
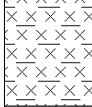
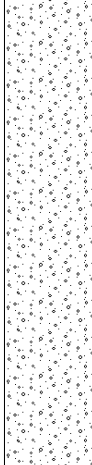
Level:

Scale
1:36

Client: Brookbanks / Hallam Land Management

Dates: 24/10/2019

Logged By
NN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		1.00	SPT	N=14 (1,2/3,3,4,4)	0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	0.5 - 1.0 - 1.5 - 2.0 - 2.5 - 3.0 - 3.5 - 4.0 - 4.5 - 5.0 - 5.5 - 6.0 - 6.5 -
					0.30			(Firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)	
							<u>0.80-1.00m Becoming (soft)</u>		
					1.00			Firm brown and grey clayey SILT. (RIVER TERRACE DEPOSITS)	
					1.50			Medium dense brown and orangish brown silty SAND & GRAVEL of fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)	
		2.00	SPT	N=27 (3,4/6,6,7,8)					
		3.00			N=20 (2,3/3,4,6,7)				
		3.70					(Stiff) dark grey silty CLAY. (LONDON CLAY FORMATION)		
4.00	End of Borehole at 4.000m								

Remarks

1. No groundwater encountered. 2. Upon completion borehole backfilled with arisings.





Borehole Log

Borehole No.

WS09

Sheet 1 of 1

Project Name: Hook Lane, Pagham

Project No.
GEG-19-623

Co-ords: 489419E - 98876N

Hole Type
WS

Location: Hook Lane, Pagham, PO21 3PD

Level:

Scale
1:36

Client: Brookbanks / Hallam Land Management

Dates:

Logged By
NN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
		0.50 - 1.00	U		0.40			Firm orangish brown slightly gravelly silty CLAY. Gravel is medium sub-rounded flint. (RIVER TERRACE DEPOSITS) <i>0.50-1.00m QUT= 50 kPa</i>	0.5
		1.00	SPT	N=17 (2,2/3,3,5,6)				<i>1.00-1.50m Becoming stiff</i>	1.0
					1.50			(Soft) yellowish brown sandy clayey SILT. (RIVER TERRACE DEPOSITS)	1.5
		2.00	SPT	N=25 (5,7/8,6,6,5)	1.80			Medium dense yellowish brown silty gravelly SAND. Gravel is medium sub-rounded flint and quartzite. (RIVER TERRACE DEPOSITS)	2.0
					2.80				2.5
		3.00	SPT	N=17 (3,4/7,4,3,3)	2.90			(Stiff) greyish brown CLAY. (LONDON CLAY FORMATION) Stiff dark grey CLAY. (LONDON CLAY FORMATION)	3.0
									3.5
		4.00	SPT	N=28 (2,4/6,7,8,7)					4.0
		4.50 - 5.00	U					<i>4.50-5.00m QUT= 125 kPa</i>	4.5
					5.00			End of Borehole at 5.000m	5.0
									5.5
									6.0
									6.5

Remarks

1. No groundwater encountered. 2. 50mm standpipe installed 4m, response zone 4-1m, bentonite seal 1-0.3m, flush cover concreted 0.3-0m.





Trial Pit Log

TrialPit No
IT41
Sheet 1 of 1

Project Name: Hook Lane, Pagham

Project No.
GEG-19-623

Co-ords: 489619.17 - 99273.30
Level:

Date
23/10/2019

Location: Hook Lane, Pagham, PO21 3PD

Dimensions (m): 2.00
Depth 2.00

Scale
1:25
Logged
NN

Client: Brookbanks / Hallam Land Management

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
▼				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.40			(Soft to firm) orangish brown slightly sandy silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	1.00	HVP	30					1.0
	1.00	HVP	30					
	1.00	HVP	30					
				1.50			Loose slightly gravelly silty clayey fine to coarse SAND. Gravel is fine to medium. (RIVER TERRACE DEPOSITS)	1.5
	1.80	B		2.00			End of Pit at 2.000m	2.0
								2.5
								3.0
								3.5
								4.0
								4.5

Remarks: 1. Groundwater encountered at 2.00m as very slow flow. 2. Infiltration test undertaken in trial pit. 3. HVP=Uncorrected Hand Vane Measurement. 4. Upon completion trial pit backfilled with arisings.

Stability: Sides Stable





Trial Pit Log

TrialPit No
IT42
Sheet 1 of 1

Project Name: Hook Lane, Pagham

Project No.
GEG-19-623

Co-ords: 489565.39 - 99458.15
Level:

Date
23/10/2019

Location: Hook Lane, Pagham, PO21 3PD

Dimensions (m): 2.00
Depth 1.80

Scale
1:25
Logged
NN

Client: Brookbanks / Hallam Land Management

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
▼	0.60	LB		0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.30			(Medium dense) orangish brown clayey silty sandy fine to coarse GRAVEL of sub-rounded quartzite and flint. (POSSIBLE RAISED BEACH DEPOSITS)	0.5
				0.70			(Firm to stiff) pinkish brown mottled grey slightly gravelly CLAY with occasional boulder sized lenses of sand and gravel. Gravel is fine sub-angular mudstone nodules. (NATURALLY REWORKED LONDON CLAY FORMATION)	1.0
	1.50 1.50 1.50	HVP HVP HVP	120 120 120	1.50			Stiff greyish brown mottled grey slightly gravelly CLAY. Gravel is fine sub-angular mudstone nodules. (LONDON CLAY FORMATION)	1.5
				1.80			End of Pit at 1.80m	2.0
								2.5
								3.0
								3.5
								4.0
								4.5

Remarks: 1. Groundwater encountered at 1.50m as very slow flow. 2. Infiltration test undertaken in trial pit. 3. HVP=Uncorrected Hand Vane Measurement. 4. Upon completion trial pit backfilled with arisings.

Stability: Sides Stable





Trial Pit Log

TrialPit No
IT43
Sheet 1 of 1

Project Name: Hook Lane, Pagham

Project No.
GEG-19-623

Co-ords: 489600.47 - 99481.60
Level:

Date
23/10/2019

Location: Hook Lane, Pagham, PO21 3PD

Dimensions (m): 2.00
Depth 2.00

Scale
1:25
Logged
NN

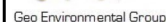
Client: Brookbanks / Hallam Land Management

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.80	LB		0.00			(Soft) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.30			(Soft to firm) greenish brown and brown sandy gravelly silty CLAY.	
				0.50			(POSSIBLE RAISED BEACH DEPOSITS) (Loose to medium dense) yellowish brown silty sandy fine to coarse GRAVEL of sub-rounded flint with occasional boulder-sized lenses of clay. (POSSIBLE RAISED BEACH DEPOSITS)	0.5
				0.90			(Soft) pinkish brown sandy clayey SILT with numerous boulder-sized lenses of (very soft) silt and yellowish brown gravelly sand. Gravel is medium sub-rounded flint nodules. (REWORKED LONDON CLAY FORMATION)	1.0
				1.80			(Stiff) greyish brown CLAY. (LONDON CLAY FORMATION)	1.5
				2.00			End of Pit at 2.000m	2.0
								2.5
								3.0
								3.5
								4.0
								4.5

Remarks: 1. Groundwater encountered at 1.20m as slow flow. 2. Infiltration test undertaken in trial pit. 3. Upon completion trial pit backfilled with arisings.

Stability: Sides Stable





Trial Pit Log

TrialPit No
PCB01
Sheet 1 of 1

Project Name: Hook Lane, Pagham

Project No.
GEG-19-623

Co-ords: -
Level:

Date
24/10/2019

Location: Hook Lane, Pagham, PO21 3PD

Dimensions (m): 0.10

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
0.20

0.10

Logged
NN

[illegible]

Remarks: 1. No groundwater encountered. 3. Upon completion trial pit backfilled with arisings.

Stability: Sides Stable





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

Depth
3.50

0.00

Scale
1:25

Logged
NN

Client: Brookbanks / Hallam Land Management

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	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)	0.5
							0.70-1.60m With occasional boulder-sized lenses of (loose) sand and gravel.	1.0
	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)	1.5
							1.80-2.50m Becoming (loose)	2.0
				2.50			(Stiff) greyish brown CLAY. (LONDON CLAY FORMATION)	2.5
				3.00			(Stiff) dark grey CLAY. (LONDON CLAY FORMATION)	3.0
				3.50			End of Pit at 3.500m	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

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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
3.50

1.00

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.40			(Soft to firm) brown slightly sandy silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	1.00	HVP	24					
	1.00	HVP	24					
	1.00	HVP	24				1.00-1.40m Becoming soft	1.0
				1.40			(Soft) orangish brown sandy gravelly SILT. Gravel is medium sub-rounded quartzite and flint. (RIVER TERRACE DEPOSITS)	1.5
				2.00			(Loose) brownish silty medium SAND & GRAVEL of coarse sub-rounded quartzite and flint. (RIVER TERRACE DEPOSITS)	2.0
				2.40			(Medium dense) grey clayey silty gravelly medium SAND. Gravel is medium sub-rounded flint and quartzite. (RIVER TERRACE DEPOSITS)	2.5
				3.50			End of Pit at 3.500m	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

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

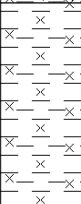
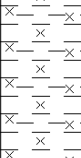
Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
4.00

0.00

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.30			(Soft to firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	1.00	HVP	74					
	1.00	HVP	74					
	1.00	HVP	74					1.0
							1.00-1.50m Becoming firm	
				1.50			(Soft) greenish and yellowish brown sandy slightly gravelly clayey SILT. Gravel is medium sub-rounded flint and quartzite. (RIVER TERRACE DEPOSITS)	1.5
				1.80			(Loose to medium dense) greenish brown clayey silty sandy fine to coarse GRAVEL of medium sub-rounded flint. (RIVER TERRACE DEPOSITS)	2.0
	2.00	LB						2.5
								3.0
								3.5
	3.60	HVP	110	3.50			Stiff greyish brown silty CLAY. (LONDON CLAY FORMATION)	
	3.60	HVP	110					
	3.60	HVP	110					
	3.85	HVP	76	3.80			Firm dark brown CLAY. (LONDON CLAY FORMATION)	
	3.85	HVP	76					
	3.85	HVP	76	4.00				4.0
							End of Pit at 4.000m	
								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





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
Depth 3.20

Scale
1:25
Logged
NN

Client: Brookbanks / Hallam Land Management

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.40			(Firm) orangish brown slightly sandy silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	1.00	HVP	90					1.0
	1.00	HVP	90				1.00-1.80m Becoming stiff	
	1.00	HVP	90					1.5
				1.80			(Soft) orangish brown and greenish brown sandy slightly clayey SILT. (RIVER TERRACE DEPOSITS)	2.0
				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)	2.5
							2.40-3.00m With occasional boulder-sized lenses of clay	
				3.00			Stiff greyish brown CLAY. (LONDON CLAY FORMATION)	3.0
	3.10	HVP	90	3.20			End of Pit at 3.200m	3.5
	3.10	HVP	90					4.0
	3.10	HVP	90					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





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 Depth 4.00	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	D		0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.30			(Soft to firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	1.00	HVP	56				1.00-1.50m Becoming firm	1.0
	1.00	HVP	56					
	1.00	HVP	56					
	1.20	D					1.50-2.00m Becoming soft	1.5
	1.50	HVP	36					
	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)	2.0
				2.20			(Loose to medium dense) yellow and yellowish brown silty SAND & GRAVEL of medium sub-rounded flint and quartzite. (RIVER TERRACE DEPOSITS)	2.5
								3.0
				3.40			Firm greyish brown silty CLAY. (LONDON CLAY FORMATION)	3.5
	3.60	HVP	70					
	3.60	HVP	70					
	3.60	HVP	70					
				4.00			End of Pit at 4.000m	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

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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
4.00

0.00

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.30			(Soft to firm) brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	1.00	HVP	36					1.0
	1.00	HVP	36					
	1.00	HVP	36					
	1.20	LB						
								1.5
	1.60	HVP	56					
	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)	2.0
								2.5
				2.80			(Loose to medium dense) yellowish brown silty gravelly SAND. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)	3.0
								3.5
	3.60	HVP	104				Stiff greyish brown CLAY. (LONDON CLAY FORMATION)	
	3.60	HVP	104					
	3.60	HVP	104					
				4.00			End of Pit at 4.000m	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





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

Depth
3.90

0.90

Scale
1:25

Logged
NN

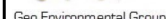
Client: Brookbanks / Hallam Land Management

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
▼				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.30			(Soft to firm) orangish brown slightly sandy silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	1.00	HVP	50					1.0
	1.00	HVP	50				1.00-1.50m Becoming firm	
	1.00	HVP	50					
	1.50	HVP	110					1.5
	1.50	HVP	110				1.50-1.80m Becoming stiff	
	1.50	HVP	110					
				1.80			(Firm) greenish brown clayey SILT. (RIVER TERRACE DEPOSITS)	2.0
				2.40			Very soft greyish brown sandy gravelly SILT. Gravel is medium sub-rounded flint and quartzite. (RIVER TERRACE DEPOSITS)	2.5
	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)	3.0
				3.90			End of Pit at 3.900m	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

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
3/10/2019

Location: Hook Lane, Pagham, PO21 3PD

Dimensions (m): 2.50

Scale
1:25

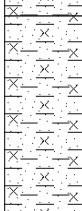
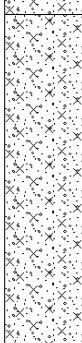
Client: Brookbanks / Hallam Land Management

Depth
3.90

0.90

2.50

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				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)	0.5
	1.00	HVP	56					1.0
	1.00	HVP	56				1.00-1.80m Becoming firm	
	1.00	HVP	56					
								1.5
								
								
								
								
							1.80-2.30m Becoming stiff	
								2.0
								
								
					2.30		(Medium dense) white and brown silty gravelly SAND. Gravel is fine chalk and flint. (RIVER TERRACE DEPOSITS)	2.5
				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)	3.0	
							3.5	
				3.60		(Stiff) greyish brown CLAY. (LONDON CLAY FORMATION)	4.0	
	3.65	HVP	102				End of Pit at 3.900m	4.5
	3.65	HVP	104					
	3.65	HVP	106					
				3.90				

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





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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
4.00

1.00

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	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)	0.5
	0.80	HVP	90					
	0.80	HVP	90					
	0.80	HVP	90					1.0
	1.20	D						
	1.50	HVP	20					
	1.50	HVP	20					1.5
	1.50	HVP	20					
	2.00	HVP	16	2.00				2.0
	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)	2.5
				4.00				3.0
							End of Pit at 4.000m	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





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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
3.50

0.00

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
▼ ▼				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.30			(Soft) brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	1.00	HVP	56				1.00-1.60m Becoming firm	
	1.00	HVP	58					
	1.00	HVP	70					1.0
							1.60-2.00m Becoming very soft	
	1.60	HVP	16					
	1.60	HVP	16					1.5
				2.00			(Soft) yellowish brown and brown sandy clayey SILT. (RIVER TERRACE DEPOSITS)	2.0
				2.20			(Medium dense) yellow and yellowish brown silty SAND. (RIVER TERRACE DEPOSITS)	2.5
				3.00			(Loose) yellow SAND & GRAVEL of fine sub-angular flint and quartzite. (RIVER TERRACE DEPOSITS)	3.0
				3.50			End of Pit at 3.50m	3.5

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





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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
4.00

0.00

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.30			(Soft to firm) yellowish brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	0.80	HVP	44					
	0.80	HVP	44					
	0.80	HVP	44					1.0
								
								
								
								
								
	1.60	HVP	84	1.50			Stiff brown slightly gravelly silty CLAY. (RIVER TERRACE DEPOSITS)	1.5
	1.60	HVP	84					
	1.60	HVP	84					
								
								
								
								
								



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: 0.00
Date 25/10/2019

Location: Hook Lane, Pagham, PO21 3PD
Dimensions (m): 2.50
Client: Brookbanks / Hallam Land Management
Depth 4.00
Scale 1:25
Logged NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.30			(Soft to firm) brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	1.20	LB						1.0
	1.20	HVP	36					1.5
	1.20	HVP	36					2.0
	1.20	HVP	36					2.5
				1.80			(Soft) orangish brown and brown sandy gravelly SILT. Gravel is medium sub-rounded flint. (RIVER TERRACE DEPOSITS)	3.0
				2.20			(Loose to medium dense) yellowish brown very silty gravelly SAND. Gravel is fine sub-rounded flint. (RIVER TERRACE DEPOSITS)	3.5
								4.0
	3.90	HVP	58	3.90			Stiff greyish brown CLAY. (LONDON CLAY FORMATION)	4.5
	3.90	HVP	86	4.00			End of Pit at 4.000m	
	3.90	HVP	90					

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

Trial Pit 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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
3.80

0.00

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	D		0.00			(Soft) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.30			(Soft) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	0.90	HVP	40					
	0.90	HVP	40					
	0.90	HVP	40					1.0
	1.00	D						
	1.20	HVP	50					
	1.20	HVP	56					
	1.20	HVP	56					
								1.5
								2.0
				2.30			(Loose to medium dense) white and yellowish brown silty gravelly SAND. Gravel is medium sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)	2.5
								3.0
				3.30			(Stiff) greyish brown CLAY. (LONDON CLAY FORMATION)	3.5
	3.50	HVP	130					
	3.50	HVP	136					
	3.50	HVP	136					
				3.80				4.0
							End of Pit at 3.800m	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





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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
3.90

0.00

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.00			(Soft) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.30			(Firm) orangish brown slightly sandy silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	1.00	HVP	76					1.0
	1.00	HVP	78					
	1.00	HVP	78					
	1.50	HVP	30					1.5
	1.50	HVP	30					
	1.50	HVP	30					
								2.0
	2.20	HVP	64	2.10			Firm greenish grey and white very sandy clayey SILT. (RIVER TERRACE DEPOSITS)	2.5
	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)	3.0
								3.5
				3.60			(Stiff) greyish brown CLAY. (LONDON CLAY FORMATION)	
				3.90			End of Pit at 3.900m	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

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

Logged
NN

Client: Brookbanks / Hallam Land Management

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.50			(Firm) brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	0.80	HVP	102	1.00			0.80-1.00m Becoming stiff	
	0.80	HVP	104					
	0.80	HVP	104					
	1.00	HVP	30					
	1.00	HVP	32					
	1.00	HVP	32					
				2.10			Soft brown clayey SILT. (RIVER TERRACE DEPOSITS)	1.0
	2.20	HVP	96	2.80				1.5
	2.20	HVP	96					2.0
	2.20	HVP	96					2.5
				3.90			(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	3.0
							End of Pit at 3.90m	4.0

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

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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
3.60

0.00

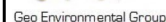
Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.40			Very soft brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	0.50	HVP	16					
	0.50	HVP	16					
	0.50	HVP	16					
	0.90	HVP	76					
	0.90	HVP	76					
	0.90	HVP	76					
	1.60	HVP	56					
	1.60	HVP	56					
	1.60	HVP	56					
				1.50			Firm brown slightly gravelly clayey SILT. (RIVER TERRACE DEPOSITS)	1.5
				1.90			(Loose) white clayey gravelly medium SAND. Gravel is medium sub-angular flint, chalk and quartzite. (RIVER TERRACE DEPOSITS)	2.0
				3.60				3.5
							End of Pit at 3.60m	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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
3.50

2.50 2.00

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.40			(Soft to firm) brown slightly sandy silty CLAY. (RIVER TERRACE DEPOSITS)	0.5 -
	0.80 0.80 0.80	HVP HVP HVP	50 50 50				0.80-2.00m Becoming firm	1.0 - 1.5 -
				2.00			(Soft) light brown, white and yellowish brown sandy gravelly SILT. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)	2.0 - 2.5 - 3.0 -
				3.50			End of Pit at 3.500m	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





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
Depth 4.00

Scale
1:25
Logged
NN

Client: Brookbanks / Hallam Land Management

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
▼	0.20	D		0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.40			(Soft to firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	1.00	HVP	64				1.00-1.80m Becoming firm	1.0
	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)	2.0
							2.50-4.00m Becoming brown and grey	2.5
								3.0
				4.00			End of Pit at 4.000m	4.0

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





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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
3.90

0.00

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.30			(Soft to firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	1.00	D						
	1.00	HVP	76					
	1.00	HVP	76					1.0
	1.00	HVP	76					
				1.50				1.5
				1.80				2.0
								2.5
								3.0
	3.60	HVP	78	3.50			Stiff greyish brown CLAY. (LONDON CLAY FORMATION)	3.5
	3.60	HVP	78					
	3.60	HVP	78	3.90			End of Pit at 3.900m	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





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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
4.00

0.00

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
▼				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.40			(Firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	1.00	HVP	36					
	1.00	HVP	36					1.0
							0.90-2.00m Becoming soft	
	1.50	HVP	36					1.5
	1.50	HVP	36					
	1.50	HVP	36					2.0
				2.00			(Soft) yellowish brown sandy SILT. (RIVER TERRACE DEPOSITS)	2.0
				2.50			(Loose to medium dense) yellowish brown and white silty gravelly SAND. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)	2.5
							2.80-3.60m Becoming brown	
				3.60			(Firm to stiff) greyish brown CLAY. (LONDON CLAY FORMATION)	3.5
				4.00			End of Pit at 4.000m	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

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
Depth 4.00

Scale
1:25
Logged
NN

Client: Brookbanks / Hallam Land Management

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
▼	1.00	D		0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.30			(Soft to firm) orangish brown slightly sandy silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
								1.0
								1.5
				2.20			(Firm) greyish brown sandy gravelly silty CLAY. Gravel is medium sub-angular flint. (RIVER TERRACE DEPOSITS)	2.0
								2.5
				2.90			(Loose to medium dense) white and brown gravelly coarse SAND. Gravel is fine angular flint and occasional chalk. (RIVER TERRACE DEPOSITS)	3.0
								3.5
				3.70			(Stiff) greyish brown CLAY. (LONDON CLAY FORMATION)	4.0
				4.00			End of Pit at 4.00m	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





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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
4.00

0.00

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	D		0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.30			(Soft) brown slightly sandy silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	1.00	D						1.0
	1.00	HVP	16				1.00-1.50m Becoming very soft	
	1.00	HVP	16					
	1.00	HVP	16					
							1.50-1.80m Becoming (firm)	1.5
	1.80	HVP	116					
	1.80	HVP	116				1.80-2.00m Becoming stiff	
	1.80	HVP	116					
	2.10	HVP	110	2.00			Stiff greyish brown sandy gravelly silty CLAY. Gravel is coarse sub-angular flint and quartzite. (RIVER TERRACE DEPOSITS)	2.0
	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)	2.5
								3.0
								3.5
	3.70	HVP	130	3.60			Stiff greyish brown CLAY. (LONDON CLAY FORMATION)	
	3.70	HVP	130					
	3.70	HVP	130					
				4.00			End of Pit at 4.000m	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





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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
3.90

0.00

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
▼				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.30			Firm brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	1.00	HVP	56					1.0
	1.00	HVP	56					
	1.00	HVP	56					1.5
				1.80			Firm yellowish brown and white sandy slightly gravelly silty CLAY. Gravel is medium sub-angular flint. (RIVER TERRACE DEPOSITS)	2.0
	2.00	HVP	58					2.5
	2.00	HVP	62					
	2.00	HVP	76					3.0
				3.00			2.80-3.00m With occasional boulder-sized pockets of silt and sand	
				3.40			(Loose to medium dense) brown clayey silty gravelly SAND. Gravel is medium sub-angular flint and quartzite. (RIVER TERRACE DEPOSITS)	3.5
	3.50	HVP	130				Stiff greyish brown silty CLAY. (LONDON CLAY FORMATION)	4.0
	3.50	HVP	130					
	3.50	HVP	130					4.5
				3.90			End of Pit at 3.900m	

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





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

Depth
3.90

1.20

Scale
1:25

Logged
NN

Client: Brookbanks / Hallam Land Management

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				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)	0.5
	0.80	HVP	48					
	0.80	HVP	50					
	0.80	HVP	50					1.0
	1.00	B						
				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)	1.5
							2.10-3.10m With occasional boulder-sized pockets of clay and medium cobble content of sub-angular flint.	2.0
								2.5
								3.0
	3.40	HVP	150	3.10			(Stiff) greyish brown CLAY. (LONDON CLAY FORMATION)	
	3.40	HVP	150				3.40-3.60m Becoming stiff to very stiff	3.5
	3.40	HVP	150	3.60			(Stiff) dark grey CLAY. (LONDON CLAY FORMATION)	
				3.90			End of Pit at 3.900m	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





Trial Pit Log

Trial Pit 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

Depth
4.00

1.00

Scale
1:25

Logged
NN

Client: Brookbanks / Hallam Land Management

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	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)	0.5
	1.00	D						1.0
	1.00	HVP	90				1.00-1.80m Becoming stiff	
	1.00	HVP	90					1.5
	1.00	HVP	90					2.0
	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)	2.5
	1.85	HVP	64				(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)	3.0
	1.85	HVP	70	2.00				3.5
	3.20	HVP	90	3.20			Stiff greyish brown CLAY. (LONDON CLAY FORMATION)	4.0
	3.20	HVP	90					4.5
	3.20	HVP	90					
				3.80			(Stiff) dark grey CLAY. (LONDON CLAY FORMATION)	
				4.00			End of Pit at 4.000m	

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





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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
4.00

0.00

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				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)	0.5
	1.00	HVP	16				1.00-1.60m Becoming soft	
	1.00	HVP	24					1.0
	1.00	HVP	30					
				1.60			(Loose) greenish grey clayey silty slightly gravelly medium SAND. Gravel is medium sub-angular flint. (RIVER TERRACE DEPOSITS)	1.5
				2.40			(Medium dense) dark brown very clayey silty gravelly medium SAND. Gravel is medium sub-angular flint and quartzite. (RIVER TERRACE DEPOSITS)	2.0
				3.50			Stiff greyish brown CLAY. (LONDON CLAY FORMATION)	2.5
	3.60	HVP	110				Stiff dark brown CLAY. (LONDON CLAY FORMATION)	3.0
	3.60	HVP	110					3.5
	3.60	HVP	110					4.0
				4.00			End of Pit at 4.000m	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





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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
3.60

1.50

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				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)	0.5
	0.80	HVP	36				0.80-1.50m Becoming soft	
	0.80	HVP	36					
	0.80	HVP	38					1.0
	1.50	HVP	16				1.50-2.40m Becoming very soft	
	1.50	HVP	16					1.5
	1.50	HVP	16					2.0
				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)	2.5
	2.80	HVP	130				Stiff greyish brown CLAY. (LONDON CLAY FORMATION)	
	2.80	HVP	130					
	2.80	HVP	130					3.0
	3.20	HVP	110				Stiff dark grey CLAY. (LONDON CLAY FORMATION)	
	3.20	HVP	110					
	3.20	HVP	110					3.5
				3.60			End of Pit at 3.600m	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

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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
4.00

0.00

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	D		0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.40			(Firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
							0.80-1.80m Becoming (soft)	
	1.00	D						1.0
	1.20	B						1.5
				1.80				2.0
							(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	2.5
								3.0
								3.5
	3.60	HVP	76	3.50			Stiff greyish brown CLAY. (LONDON CLAY FORMATION)	
	3.60	HVP	76					
	3.60	HVP	76					
				4.00			End of Pit at 4.000m	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

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

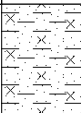
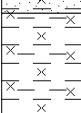
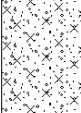
Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
4.00

0.00

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.40			(Firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	0.80	HVP	16					
	0.80	HVP	20					
	0.80	HVP	24				0.80-1.60m Becoming very soft to soft	1.0
	1.50	HVP	36					1.5
	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)	2.0
							2.00-3.40m Becoming orangish brown and brown	2.5
								3.0
	3.50	HVP	84	3.40			Stiff greyish brown CLAY. (LONDON CLAY FORMATION)	3.5
	3.50	HVP	84					
	3.50	HVP	84					
				4.00			End of Pit at 4.000m	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

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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
3.90

0.00

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.45			(Soft to firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	0.80	HVP	72					
	0.80	HVP	76					
	0.80	HVP	76					
	1.10	HVP	30					
	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)	1.5
				2.30			(Loose to medium dense) dark brown medium silty gravelly SAND. Gravel is medium sub-rounded flint. (RIVER TERRACE DEPOSITS)	2.5
				3.50			Stiff greyish brown CLAY. (LONDON CLAY FORMATION)	3.5
	3.60	HVP	76					
	3.60	HVP	76					
	3.60	HVP	76					
				3.90			End of Pit at 3.900m	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





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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
4.00

0.00

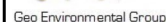
Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.30			(Firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
							0.70-1.30m Becoming soft	
	1.00	HVP	30					1.0
	1.00	HVP	30					
	1.00	HVP	30					
				1.30			Very soft grey and brown sandy clayey SILT. (RIVER TERRACE DEPOSITS)	1.5
	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)	2.0
								2.5
								3.0
								3.5
	3.50	HVP	90	3.40			Stiff greyish brown CLAY. (LONDON CLAY FORMATION)	
	3.50	HVP	90					
	3.50	HVP	90					
				4.00			End of Pit at 4.00m	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

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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
4.00

0.90 2.00

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
▼				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)	0.5
	0.80	HVP	44					
	0.80	HVP	44					
	0.80	HVP	46					1.0
								
								1.5
								
				2.00			(Soft) white and yellowish brown gravelly sandy SILT. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)	2.0
								2.5
				2.70			Soft brown silty CLAY. (LONDON CLAY FORMATION)	
	2.80	HVP	18					
	2.80	HVP	36					
	2.80	HVP	42					3.0
								
							3.5	
								
							4.0	
			4.00				End of Pit at 4.000m	
								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

TrialPit No
TP37
Sheet 1 of 1

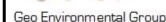
Project Name: Hook Lane, Pagham	Project No. GEG-19-623	Co-ords: 489437.00 - 99045.00 Level:	Date 24/10/2019
Location: Hook Lane, Pagham, PO21 3PD		Dimensions (m): 2.00 Depth 3.90	Scale 1:25
Client: Brookbanks / Hallam Land Management			Logged NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
▼				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.30			(Firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	0.80	HVP	24					
	0.80	HVP	36					
	0.80	HVP	36					
							0.80-1.20m Becoming soft	
				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)	1.5
				2.00			Firm greyish brown CLAY. (LONDON CLAY FORMATION)	2.0
	2.10	HVP	56					
	2.10	HVP	56					
	2.10	HVP	56					
	2.50	HVP	62					2.5
	2.50	HVP	62					
	2.50	HVP	62					
	3.00	HVP	84					3.0
	3.00	HVP	84					
	3.00	HVP	84					
				3.90			End of Pit at 3.900m	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

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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
3.80

0.90

2.00

Logged
NN

[illegible]

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

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 Depth 3.90	Scale 1:25 Logged NN
Client: Brookbanks / Hallam Land Management			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	D		0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.40			(Firm) yellowish brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	0.80	HVP	76				0.80-1.60m Becoming stiff	
	0.80	HVP	76					
	0.80	HVP	76					1.0
	1.00	D						
				1.60			(Medium dense) yellowish brown silty SAND & GRAVEL of medium sub-rounded flint and quartzite. (RIVER TERRACE DEPOSITS)	1.5
▼								2.0
	2.55	HVP	50	2.50			Firm greyish brown silty CLAY. (LONDON CLAY FORMATION)	2.5
	2.55	HVP	50					
	2.55	HVP	50					
	3.00	HVP	50					3.0
	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)	3.5
	3.70	HVP	116					
	3.70	HVP	116					
	3.70	HVP	118					
				3.90			End of Pit at 3.900m	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

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

Scale
1:25

Client: Brookbanks / Hallam Land Management

Depth
4.00

0.00

Logged
NN

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.00			(Firm) dark brown slightly sandy silty CLAY. (TOPSOIL)	
				0.40			(Soft to firm) orangish brown silty CLAY. (RIVER TERRACE DEPOSITS)	0.5
	0.80	HVP	50				0.80-1.30m Becoming firm	
	0.80	HVP	50					
	0.80	HVP	50					1.0
	1.30	HVP	16				1.30-1.60m Becoming very soft	
	1.30	HVP	20					
	1.30	HVP	22					1.5
				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)	2.0
				2.30			1.90-2.30m With occasional lenses of (soft) clay	
							(Loose) grey silty gravelly medium SAND. Gravel is fine sub-angular flint and chalk. (RIVER TERRACE DEPOSITS)	2.5
								3.0
								3.5
				4.00			End of Pit at 4.000m	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

Appendix D

Infiltration Tests

Project Name: Hook Lane, Pagham
Project Ref.: GEG-19-623
Trial Pit: IT41
Test No.: Test 1 of 1

Depth of Pit (cm):	200.00
Depth of Water at Start of Depth (cm):	79.00
Date of Test:	23 October 2019

[illegible]

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)

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

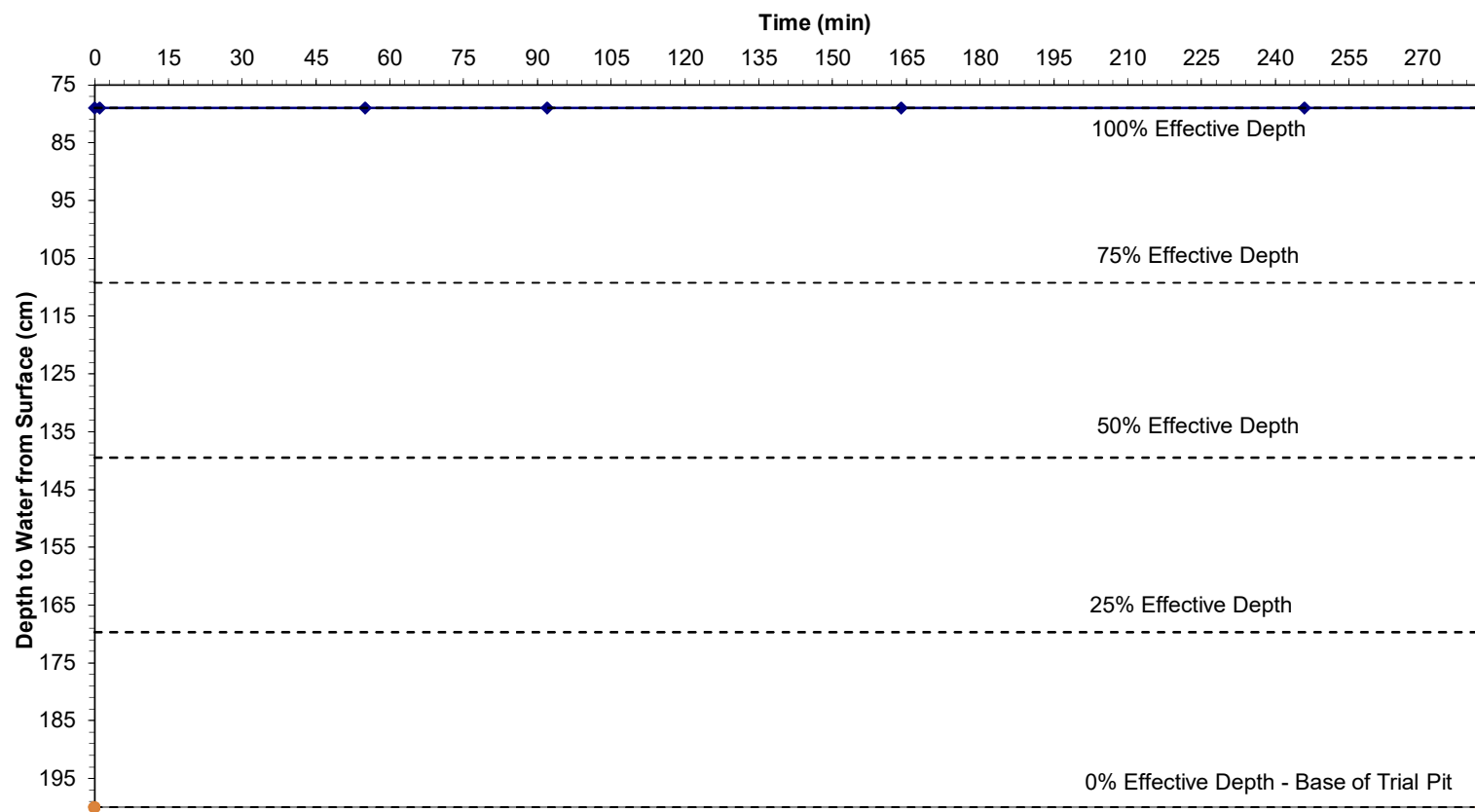
Engineer: NN
Checked: MP

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

[illegible]

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)

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

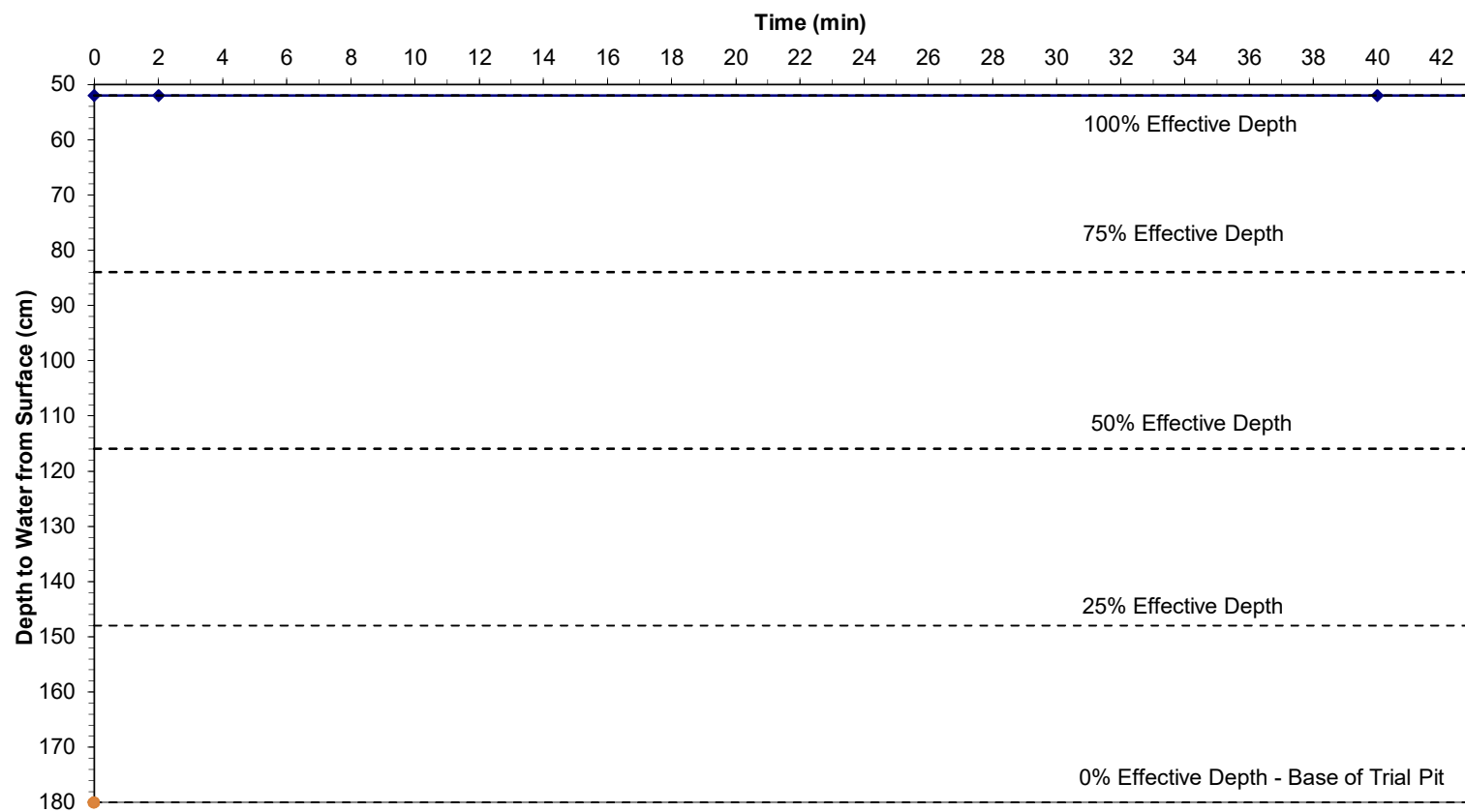
Engineer: NN
Checked: MP

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

[illegible]

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)

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

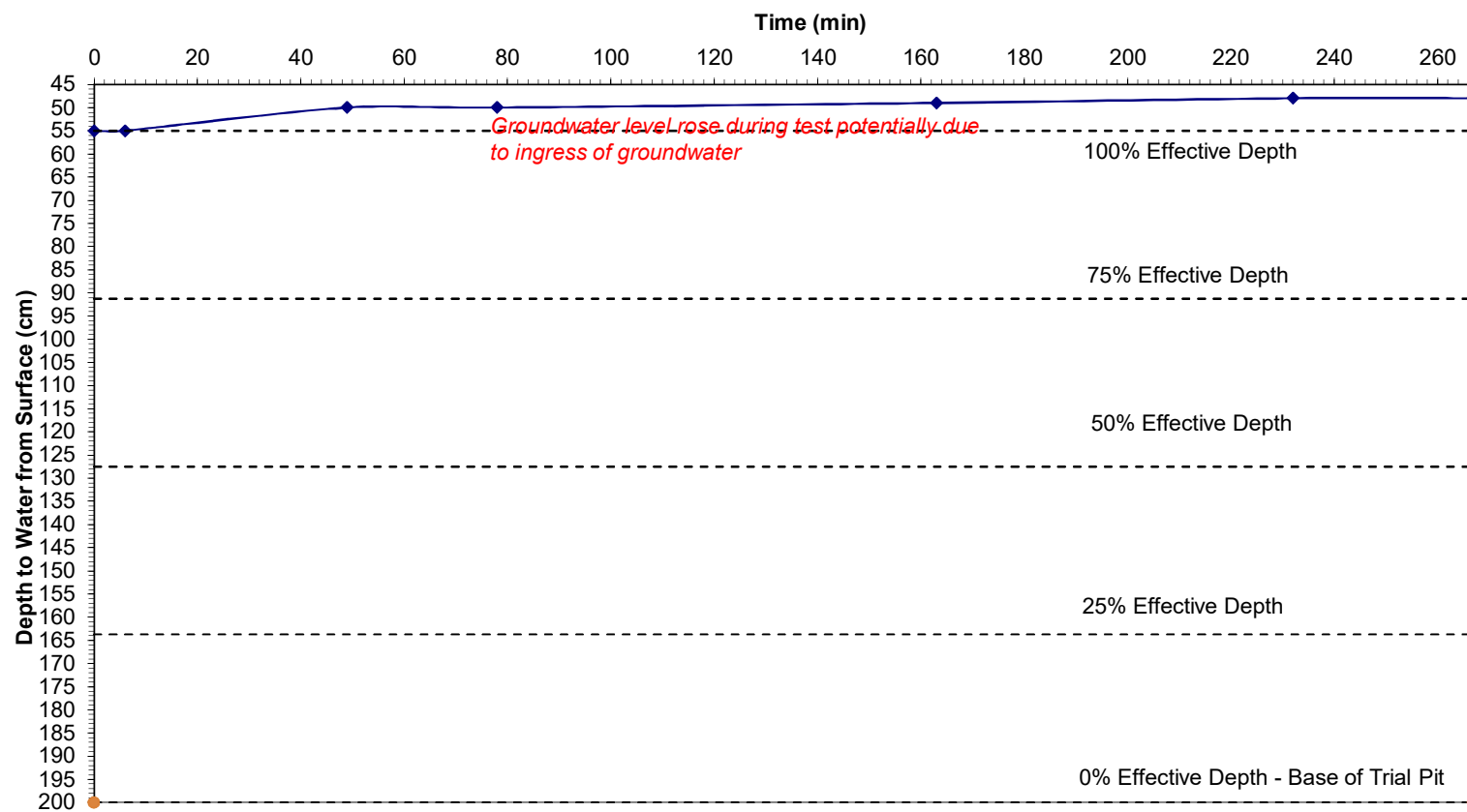
Engineer: NN
Checked: MP

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
t: 01622 850410

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:

A handwritten signature in black ink, appearing to read "Dave Ashworth".

Dave Ashworth
Technical Manager

This report supersedes 19-15295, issue no.1.
Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. 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.



DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



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

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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

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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	

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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			

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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 ^{1/s}

Unsuitable Sample ^{u/s}



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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 dphenylcarbazine 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



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DETS Report No: 19-17654

Site Reference: Hook Lane, Pagham

Project / Job Ref: GEG-19-623

Order No: 3589

Sample Receipt Date: 20/12/2019

Sample Scheduled Date: 20/12/2019

Report Issue Number: 1

Reporting Date: 03/01/2020

Authorised by:

A handwritten signature in blue ink, appearing to read "Dave Ashworth".

Dave Ashworth
Technical Manager

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Soil Analysis Certificate - Organochlorine Pesticides						
DETS Report No: 19-17654	Date Sampled	18/12/19	18/12/19	18/12/19	18/12/19	18/12/19
Geo Environmental Group	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Hook Lane, Pagham	TP / BH No	TP01	TP10	TP14	TP20	TP24
Project / Job Ref: GEG-19-623	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: 3589	Depth (m)	0.20	0.20	0.20	0.20	0.20
Reporting Date: 03/01/2020	DETS Sample No	453742	453743	453744	453745	453746

Determinand	Unit	RL	Accreditation					
Aldrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
alpha-HCH	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
beta-HCH	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
cis-chlordane	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
delta-HCH	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dieldrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endosulfan A	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endosulfan B	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
gamma-HCH (Lindane)	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Heptachlor	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Heptachlor epoxide	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Hexachlorobenzene (HCB)	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Isodrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Methoxychlor	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
o,p' - DDD	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
o,p' - DDE	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
o,p' - DDT	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
p,p' - DDD	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
p,p' - DDE	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
p,p' - DDT	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
trans-chlordane	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Trifluralin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

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 - Organochlorine Pesticides						
DETS Report No: 19-17654	Date Sampled	18/12/19	18/12/19	18/12/19		
Geo Environmental Group	Time Sampled	None Supplied	None Supplied	None Supplied		
Site Reference: Hook Lane, Pagham	TP / BH No	TP27	TP30	TP39		
Project / Job Ref: GEG-19-623	Additional Refs	None Supplied	None Supplied	None Supplied		
Order No: 3589	Depth (m)	0.20	0.20	0.20		
Reporting Date: 03/01/2020	DETS Sample No	453747	453748	453749		

Determinand	Unit	RL	Accreditation					
Aldrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
alpha-HCH	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
beta-HCH	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
cis-chlordane	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
delta-HCH	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
Dieldrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
Endosulfan A	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
Endosulfan B	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
Endrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
gamma-HCH (Lindane)	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
Heptachlor	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
Heptachlor epoxide	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
Hexachlorobenzene (HCB)	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
Isodrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
Methoxychlor	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
o,p' - DDD	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
o,p' - DDE	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
o,p' - DDT	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
p,p' - DDD	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
p,p' - DDE	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
p,p' - DDT	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
trans-chlordane	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		
Trifluralin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02		

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 - Organophosphorus Pesticides						
DETS Report No: 19-17654	Date Sampled	18/12/19	18/12/19	18/12/19	18/12/19	18/12/19
Geo Environmental Group	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Hook Lane, Pagham	TP / BH No	TP01	TP10	TP14	TP20	TP24
Project / Job Ref: GEG-19-623	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: 3589	Depth (m)	0.20	0.20	0.20	0.20	0.20
Reporting Date: 03/01/2020	DETS Sample No	453742	453743	453744	453745	453746

Determinand	Unit	RL	Accreditation					
Azinphos-methyl	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chlorfenvinphos, alpha	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chlorfenvinphos, beta	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chlorpyrifos-methyl	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diazinon	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dichlorvos	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethoate	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fenitrothion	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fenthion	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Malathion	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Mevinphos, E	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Mevinphos, (Z)	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Parathion-ethyl	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Parathion-methyl	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phorate	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 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 - Organophosphorus Pesticides						
DETS Report No: 19-17654	Date Sampled	18/12/19	18/12/19	18/12/19		
Geo Environmental Group	Time Sampled	None Supplied	None Supplied	None Supplied		
Site Reference: Hook Lane, Pagham	TP / BH No	TP27	TP30	TP39		
Project / Job Ref: GEG-19-623	Additional Refs	None Supplied	None Supplied	None Supplied		
Order No: 3589	Depth (m)	0.20	0.20	0.20		
Reporting Date: 03/01/2020	DETS Sample No	453747	453748	453749		

Determinand	Unit	RL	Accreditation					
Azinphos-methyl	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1		
Chlorfenvinphos, alpha	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1		
Chlorfenvinphos, beta	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1		
Chlorpyrifos-methyl	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1		
Diazinon	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1		
Dichlorvos	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1		
Dimethoate	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1		
Fenitrothion	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1		
Fenthion	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1		
Malathion	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1		
Mevinphos, E	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1		
Mevinphos, (Z)	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1		
Parathion-ethyl	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1		
Parathion-methyl	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1		
Phorate	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 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: 19-17654

Geo Environmental Group

Site Reference: Hook Lane, Pagham

Project / Job Ref: GEG-19-623

Order No: 3589

Reporting Date: 03/01/2020

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
453742	TP01	None Supplied	0.20	19.5	Brown clay with stones
453743	TP10	None Supplied	0.20	19.7	Brown clay
453744	TP14	None Supplied	0.20	20.4	Brown clay with stones
453745	TP20	None Supplied	0.20	20.2	Brown clay
453746	TP24	None Supplied	0.20	18	Brown clay
453747	TP27	None Supplied	0.20	17.7	Brown clay
453748	TP30	None Supplied	0.20	17.5	Brown clay
453749	TP39	None Supplied	0.20	18.5	Brown clay

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

Insufficient Sample ^{1/5}

Unsuitable Sample ^{U/5}



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 19-17654

Geo Environmental Group

Site Reference: Hook Lane, Pagham

Project / Job Ref: GEG-19-623

Order No: 3589

Reporting Date: 03/01/2020

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