

Excavation Method Drive-in Window Sampler	Dimensions	Ground Level (mOD) 90.80	Client Ms Suthinee Srisethi	Job Number J11069
	Location	Dates 11/04/2011	Engineer MA Engineers	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				90.70	(0.10) 0.10	Topsoil		
					(3.40)	Firm pale orangish brown mottled orange-brown and pale grey silty CLAY becoming silty sandy clay with pockets of fine sand and rootlets to 0.7m		
			Water strike(1) at 4.00m, rose to 3.00m in 20 mins.	87.30	3.50	Stiff pale brown mottled orange-brown and grey silty sandy CLAY		▽1
					(2.00)			▽1
				85.30	5.50	Stiff grey sandy CLAY		
					(0.50)			
				84.80	6.00	Complete at 6.00m		

Remarks	Scale (approx)	Logged By
	1:50	JF
	Figure No. J11069.BH 3	

Excavation Method Drive-in Window Sampler	Dimensions	Ground Level (mOD) 90.76	Client Ms Suthinee Srisethi	Job Number J11069
	Location	Dates 11/04/2011	Engineer MA Engineers	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				90.61	(0.15) 0.15	Topsoil		
						Soft becoming firm orange-brown mottled grey silty sandy CLAY pale orange-brown mottled orange-brown and grey silty sandy clay becoming very sandy from 2.5m with rootlets		
					(3.55)			
				87.06	3.70	Stiff orange-brown mottled grey silty sandy CLAY becoming greyish brown from 4.4 m.		
					(1.30)			
				85.76	5.00	Complete at 5.00m		

Remarks	Scale (approx)	Logged By
	1:50	JF
	Figure No. J11069.BH 4	

Excavation Method Drive-in Window Sampler	Dimensions	Ground Level (mOD) 91.15	Client Ms Suthinee Srisethi	Job Number J11069
	Location	Dates 11/04/2011	Engineer MA Engineers	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				90.75	0.40	Made Ground (100mm concrete underlain by grey clayey silty sand with brick rubble)		
					(3.60)	Firm orange-brown and pale grey silty sandy CLAY		
			Water strike(1) at 3.80m.	87.15	4.00	Stiff brown mottled orange-brown silty CLAY with pockets of sand		▽1
				86.15	5.00	Complete at 5.00m		

Remarks	Scale (approx)	Logged By
	1:50	JF
	Figure No. J11069.BH 5	



Standard Penetration Test Results

Site : 3 Greenaway Gardens, Hampstead, London NW3

Client : Ms Suthinee Srisethi

Engineer: MA Engineers

Job Number
J11069

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Borehole Number	Base of Borehole (m)	End of Seating Drive (m)	End of Test Drive (m)	Test Type	Seating Blows per 75mm		Blows for each 75mm penetration				Result	Comments
					1	2	1	2	3	4		
BH1	1.50	1.65	1.95	SPT	1	1	1	2	2	2	N=7	
BH1	3.50	3.65	3.95	SPT	2	2	1	2	2	3	N=8	
BH1	6.00	6.15	6.45	SPT	2	2	3	3	3	4	N=13	
BH1	9.00	9.17	9.32	SPT	4	5	5	59			64/150mm	
BH1	12.00	12.15	12.45	SPT	4	5	5	6	6	7	N=24	
BH1	15.00	15.15	15.45	SPT	5	6	6	7	7	8	N=28	
BH1	18.00	18.15	18.45	SPT	4	6	6	7	8	9	N=30	
BH1	21.00	21.15	21.45	SPT	5	6	8	9	9	11	N=37	
BH1	24.00	24.15	24.45	SPT	6	7	9	9	10	14	N=42	

Excavation Method
Manual

Dimensions
0.33 x 0.4 x 1.0

Ground Level (mOD)
90.8

Client
Ms Suthinee Srisethi

Job
Number
J11069

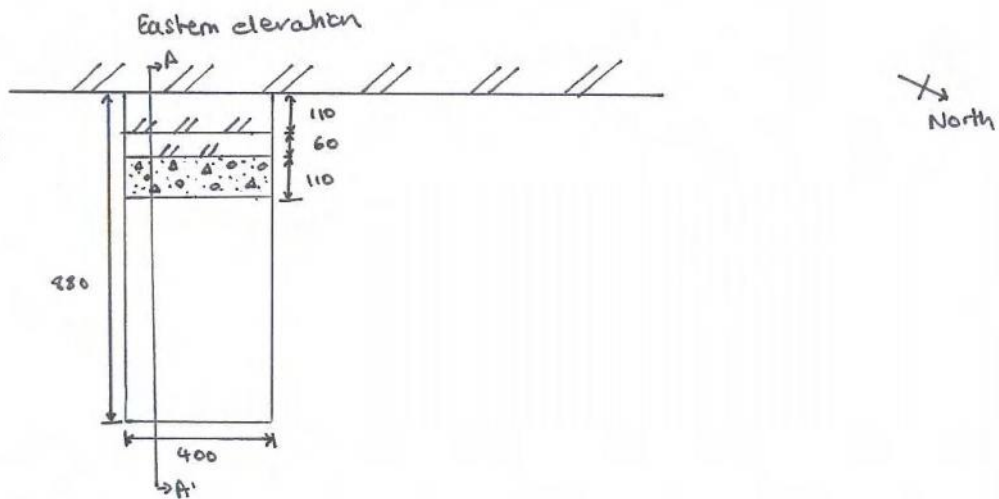
Location

Dates
11/4/11

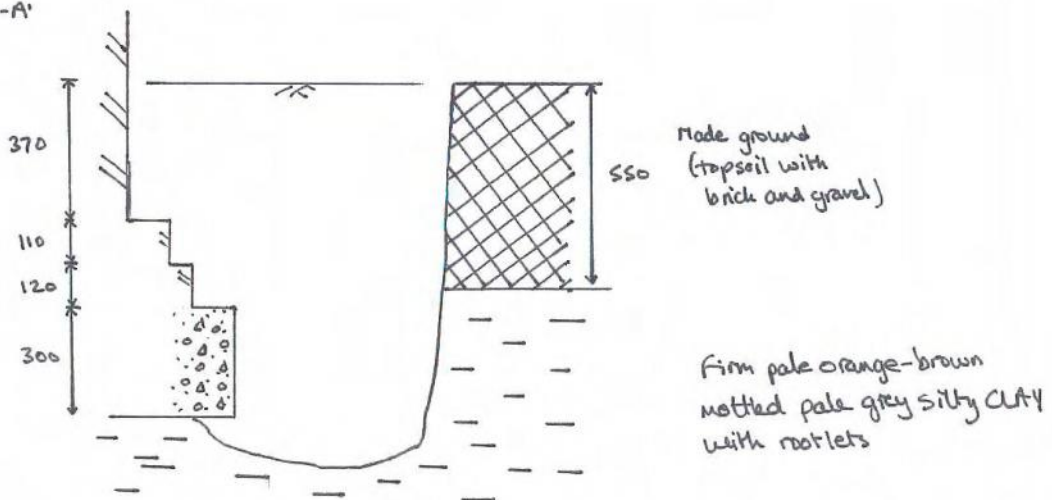
Engineer
MA Engineers

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PLAN:



SECTION A-A'



Remarks:

All dimensions in millimetres

Sides of trial pit remained stable during excavation

Groundwater: Not encountered

Scale:

1:20

Logged by:

JF

Excavation Method
Manual

Dimensions
1.0 x 0.6 x 1.4

Ground Level (mOD)
90.2

Client
Ms Suthinee Srisethi

Job
Number
J11069

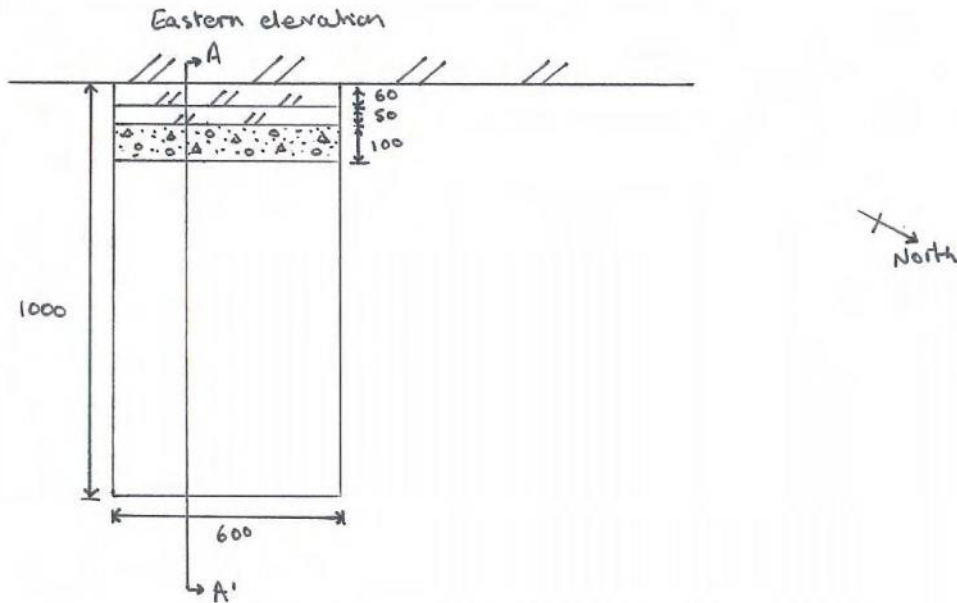
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Dates
11/4/11

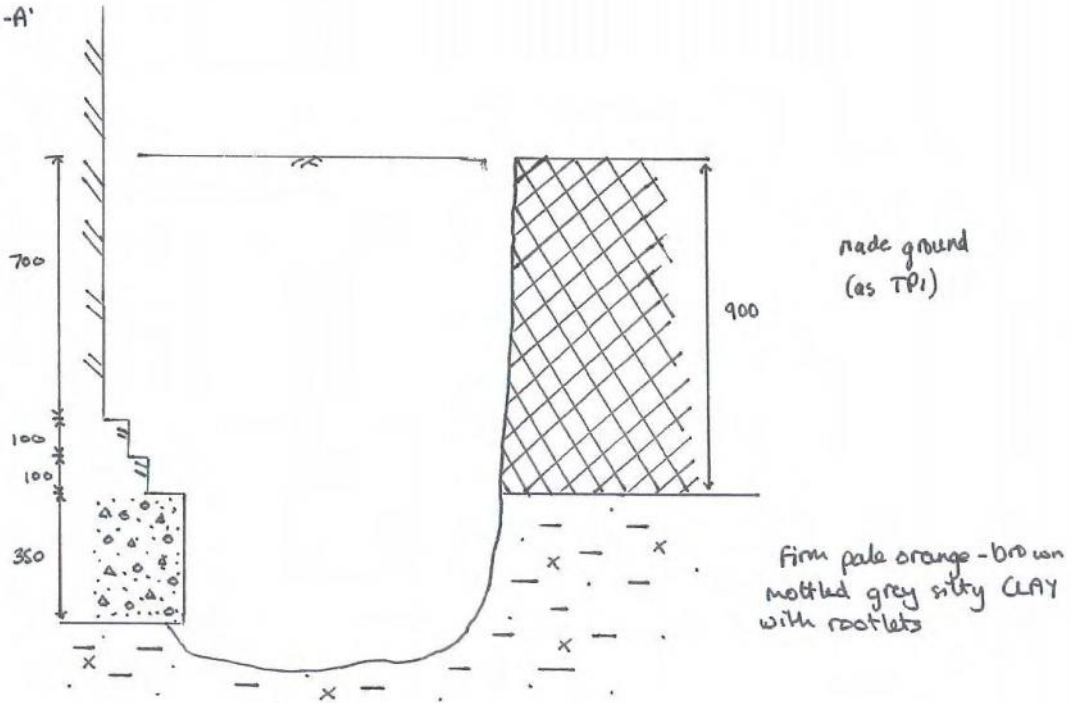
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MA Engineers

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PLAN:



SECTION A-A'



Remarks:

All dimensions in millimetres

Sides of trial pit remained stable during excavation

Groundwater: Not encountered

Scale:

1:20

Logged by:

JF



Geotechnical & Environmental Associates

Tythenhanger House
Coursers Road
St Albans
Herts AL4 0PG

Site
3 Greenaway Gardens, London

Trial Pit
Number
3

Excavation Method
Manual

Dimensions
0.4 x 0.6 x 0.9

Ground Level (mOD)
89.33

Client
Ms Suthinee Srisethi

Job
Number
J11069

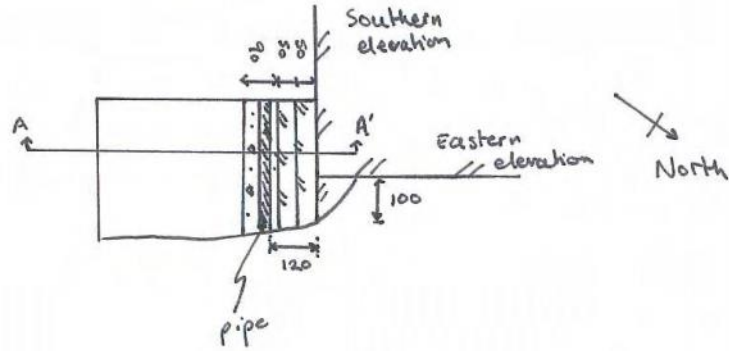
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Dates
11/4/11

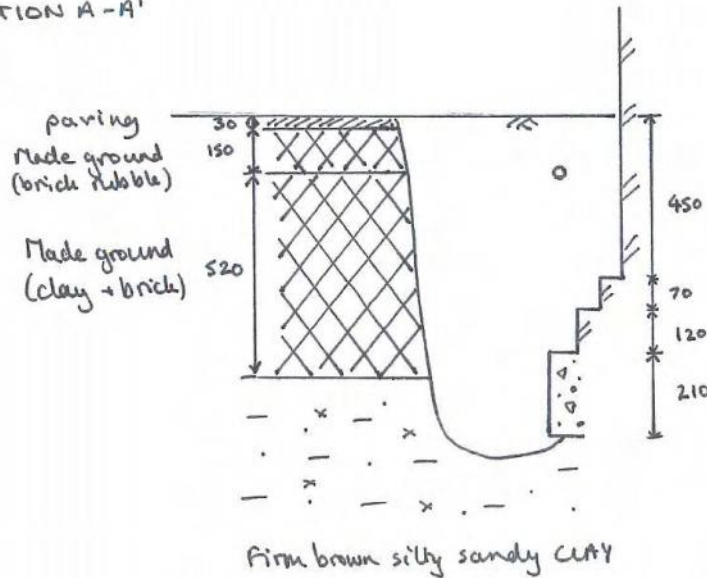
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MA Engineers

Sheet
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PLAN:



SECTION A-A'



Remarks:

All dimensions in millimetres

Sides of trial pit remained stable during excavation

Groundwater: Not encountered

Scale:

1:20

Logged by:

JF



Geotechnical &
Environmental
Associates

Tythenhanger House
Coursers Road
St Albans
Herts AL4 0PG

Site

3 Greenaway Gardens, London

Trial Pit
Number

4

Excavation Method
Manual

Dimensions

0.75 x 0.5 x 0.6

Ground Level (mOD)

Client

Ms Suthinee Srisethi

Job

Number

J11069

Location

Basement

Dates

12/4/11

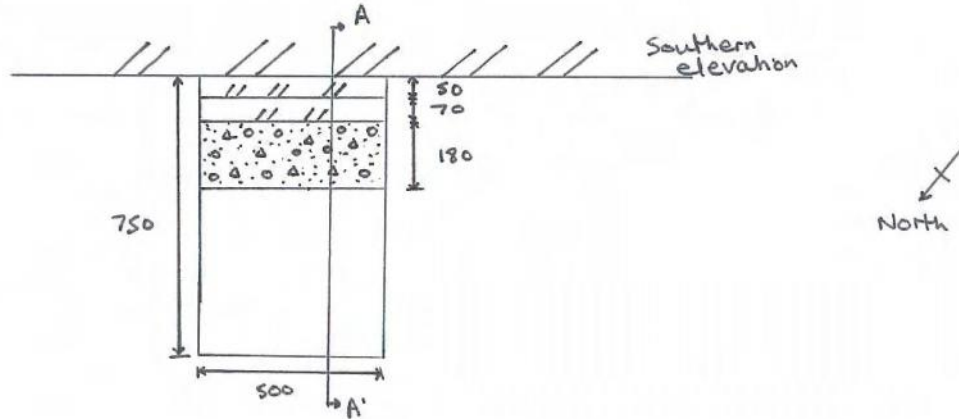
Engineer

MA Engineers

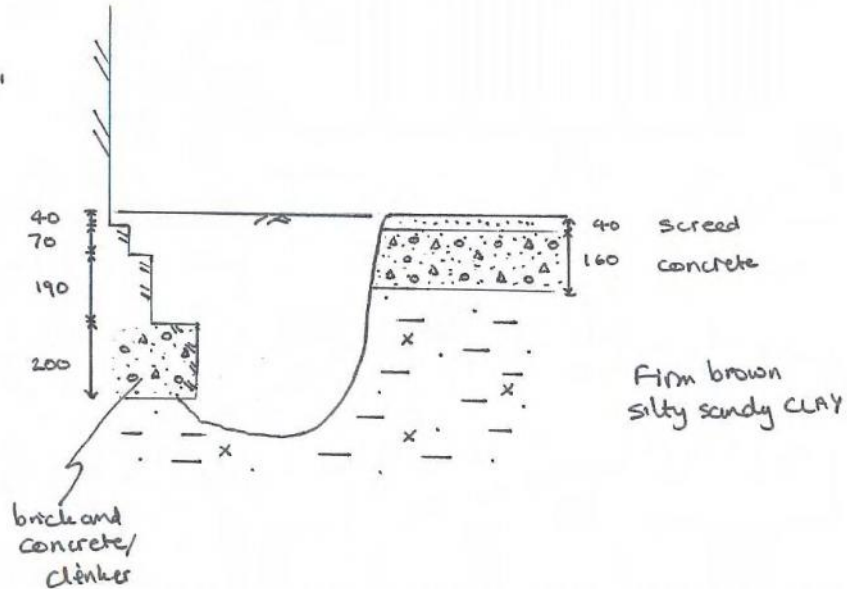
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PLAN:



SECTION A-A'



Remarks:

All dimensions in millimetres

Sides of trial pit remained stable during excavation

Groundwater: Not encountered

Scale:

1:20

Logged by:

JF

Excavation Method
Manual

Dimensions
0.7 x 0.6 x 1.5

Ground Level (mOD)
90.86

Client
Ms Suthinee Srisethi

Job
Number
J11069

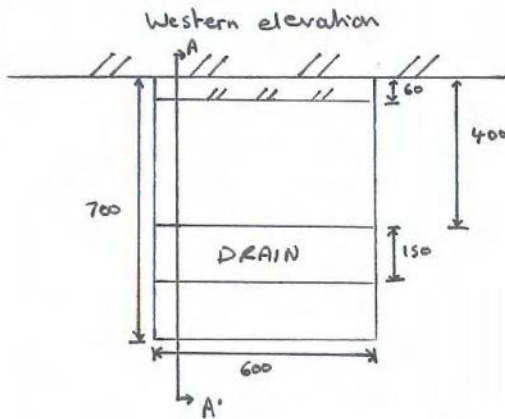
Location

Dates
12/4/11

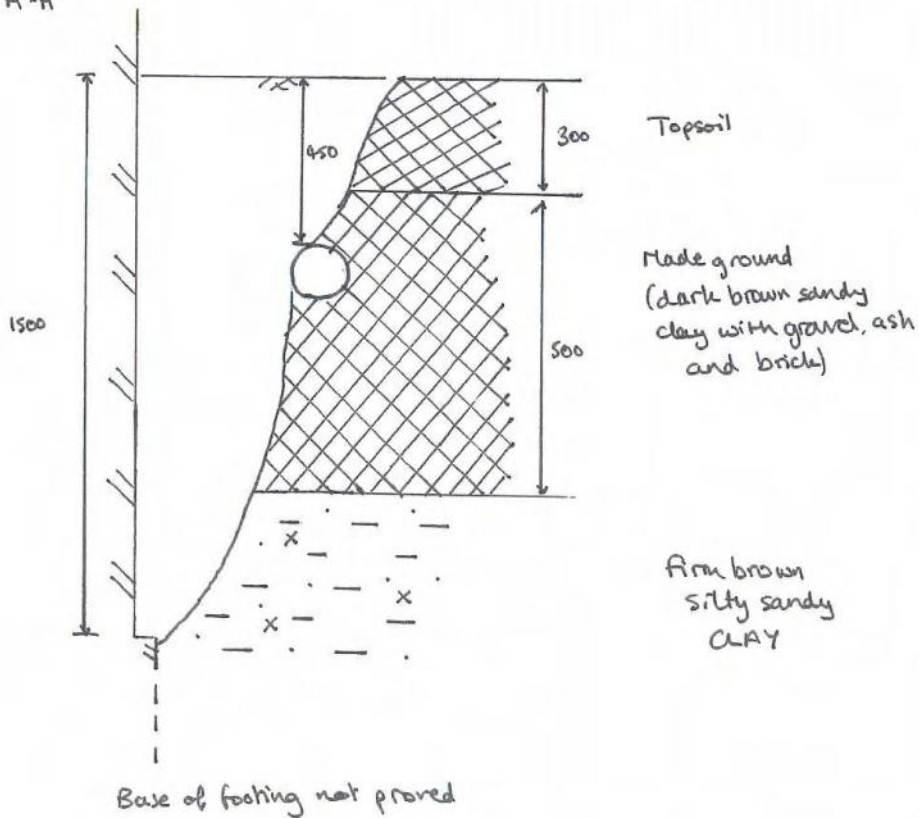
Engineer
MA Engineers

Sheet

PLAN:



SECTION A-A'



Remarks:
All dimensions in millimetres
Sides of trial pit remained stable during excavation
Groundwater: Not encountered

Scale:
1:20
Logged by:
Jf

Excavation Method
Manual

Dimensions
0.8 x 0.8 x 1.1

Ground Level (mOD)
90.82

Client
Ms Suthinee Srisethi

Job
Number
J11069

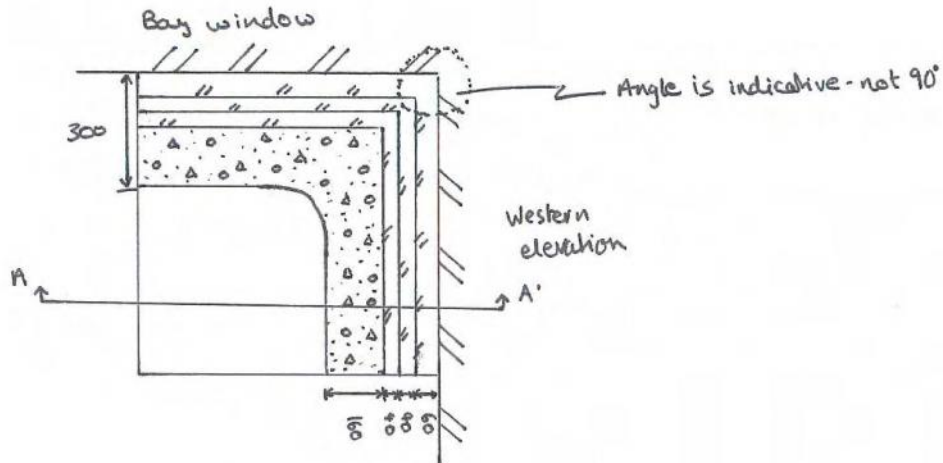
Location

Dates
12/4/11

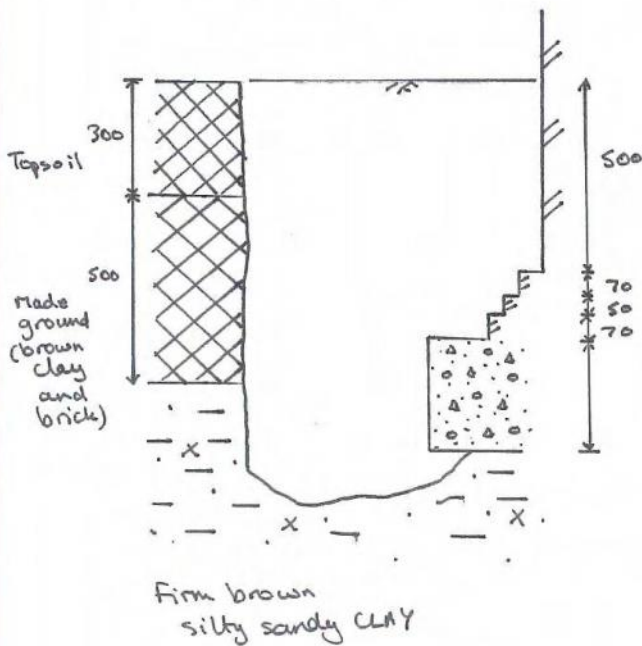
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PLAN:



SECTION A - A'



Remarks:

All dimensions in millimetres

Sides of trial pit remained stable during excavation

Groundwater: Not encountered

Scale:

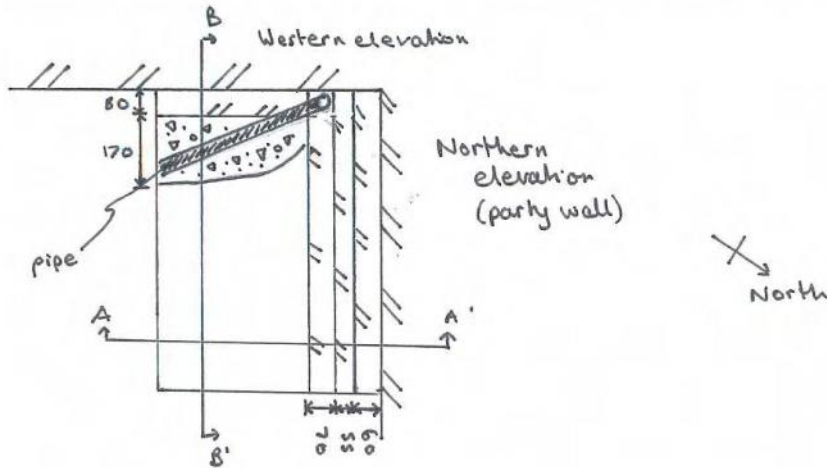
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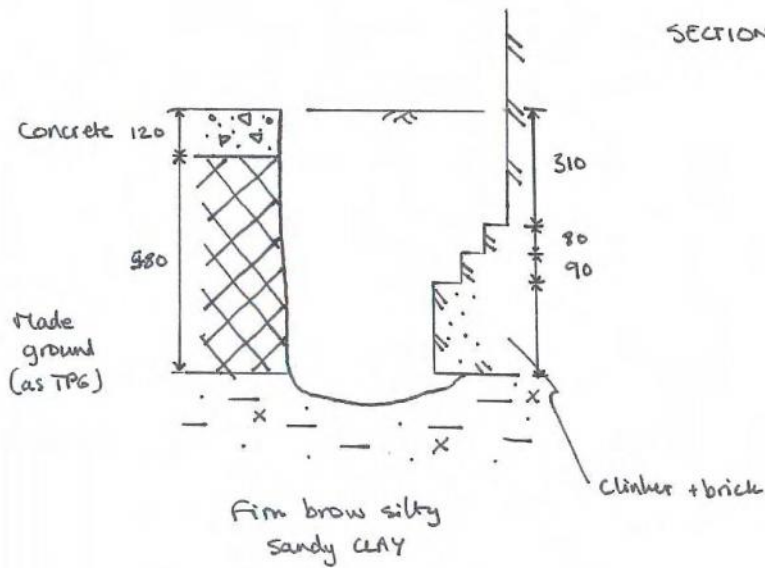
JF

Excavation Method Manual	Dimensions 0.8 x 0.6 x 0.8	Ground Level (mOD) 91.19	Client Ms Suthinee Srisethi	Job Number J11069
	Location	Dates 12/4/11	Engineer MA Engineers	Sheet 1/2

PLAN:



SECTION A-A'



Remarks: All dimensions in millimetres Sides of trial pit remained stable during excavation Groundwater: Not encountered	Scale: 1:20
	Logged by: JF

Excavation Method
Manual

Dimensions
0.8 x 0.6 x 0.8

Ground Level (mOD)
91.19

Client
Ms Suthinee Srisethi

Job Number
J11089

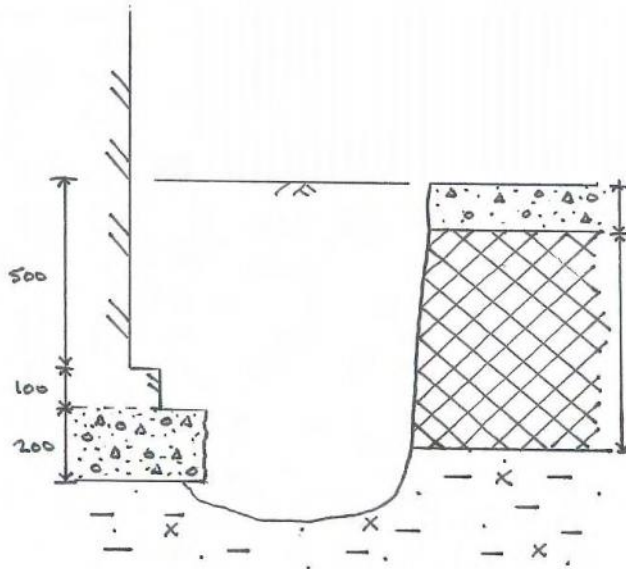
Location

Dates
12/4/11

Engineer
MA Engineers

Sheet
2/2

SECTION B-B'



As previous

Remarks:
All dimensions in millimetres
Sides of trial pit remained stable during excavation
Groundwater: Not encountered

Scale:
1:20

Logged by:
JF

Excavation Method
Manual

Dimensions
0.8 x 0.4 x 0.7

Ground Level (mOD)
91.19

Client
Ms Suthinee Srisethi

Job
Number
J11069

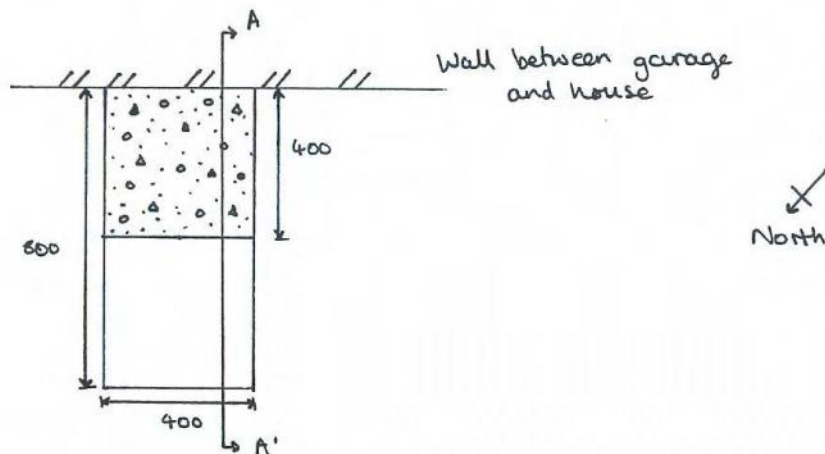
Location

Dates
12/4/11

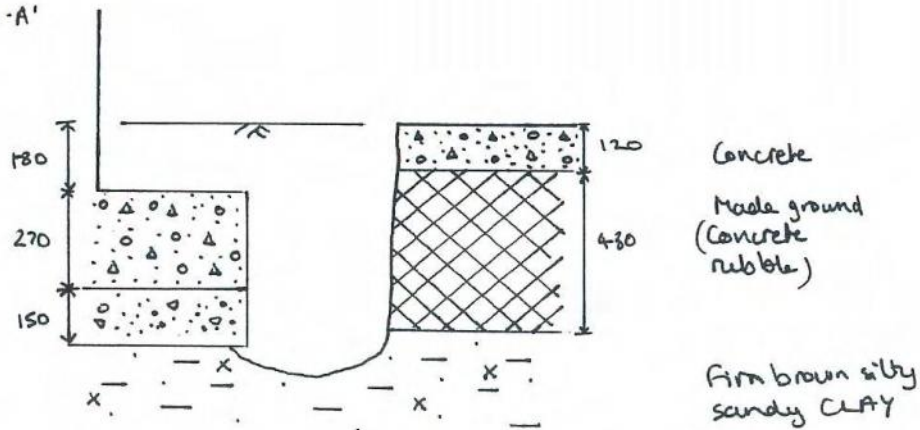
Engineer
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1/1

PLAN:



SECTION A-A'



Remarks:

All dimensions in millimetres

Sides of trial pit remained stable during excavation

Groundwater: Not encountered

Scale:

1:20

Logged by:

JF

Site 3 Greenaway Gardens, London NW3

Client Ms Suthinee Srisethi

Engineer MA Engineers

Job Number
J11069

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Site 3 Greenaway Gardens, London NW3

Client Ms Suthinee Srisethi

Engineer MA Engineers

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Site 3 Greenaway Gardens, London NW3

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Site 3 Greenaway Gardens, London NW3

Client Ms Suthinee Srisethi

Engineer MA Engineers

Job Number
J11069

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PROJECT NAME

GREENAWAY GARDENS

PROJECT NO:

Job Number: J11069
GEO / 16816

Date

10/05/2011

Approved

J Sturges

Page

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Sample details		Description	Classification Tests			Density Tests			Undrained Triaxial Compression Tests			Chemical Tests		Other tests and comments					
Borehole No.	Depth (m)		No.	Type	MC (%)	LL (%)	PL (%)	PI	<425 mic (%)	Bulk (Mg/m ³)	Dry (Mg/m ³)	Cell Pressure (kPa)	Deviator Stress (kPa)		Shear Stress (kPa)	pH	2:1 W/S SO4 (g/l)	Ground Water SO4 (g/l)	
1	2.50	-	U		27					1.97	1.55	50	139	69					
1	4.50	-	U		27					1.97	1.55	90	147	73				Oedometer Consolidation Test	
1	7.50	-	U		23					2.04	1.65	150	186	93				Oedometer Consolidation Test	
1	10.50	-	U		33	66	26	40	100	2.05	1.54	210	160	80					
1	13.50	-	U		28					2.02	1.58	270	259	129				Oedometer Consolidation Test	
1	16.50	-	U		30					1.98	1.52	330	272	136					
1	19.50	-	U		25					2.04	1.63	390	313	157				Oedometer Consolidation Test	
1	22.50	-	U		27					2.01	1.58	450	322	161					
1	25.50	-	U		28					1.97	1.54	500	197	99					
1	1.50	-	D		28	54	20	34	100										
1	2.00	-	D													7.4	0.43		
1	9.75	-	D														8.3	0.55	

SUMMARY OF GEOTECHNICAL TESTING

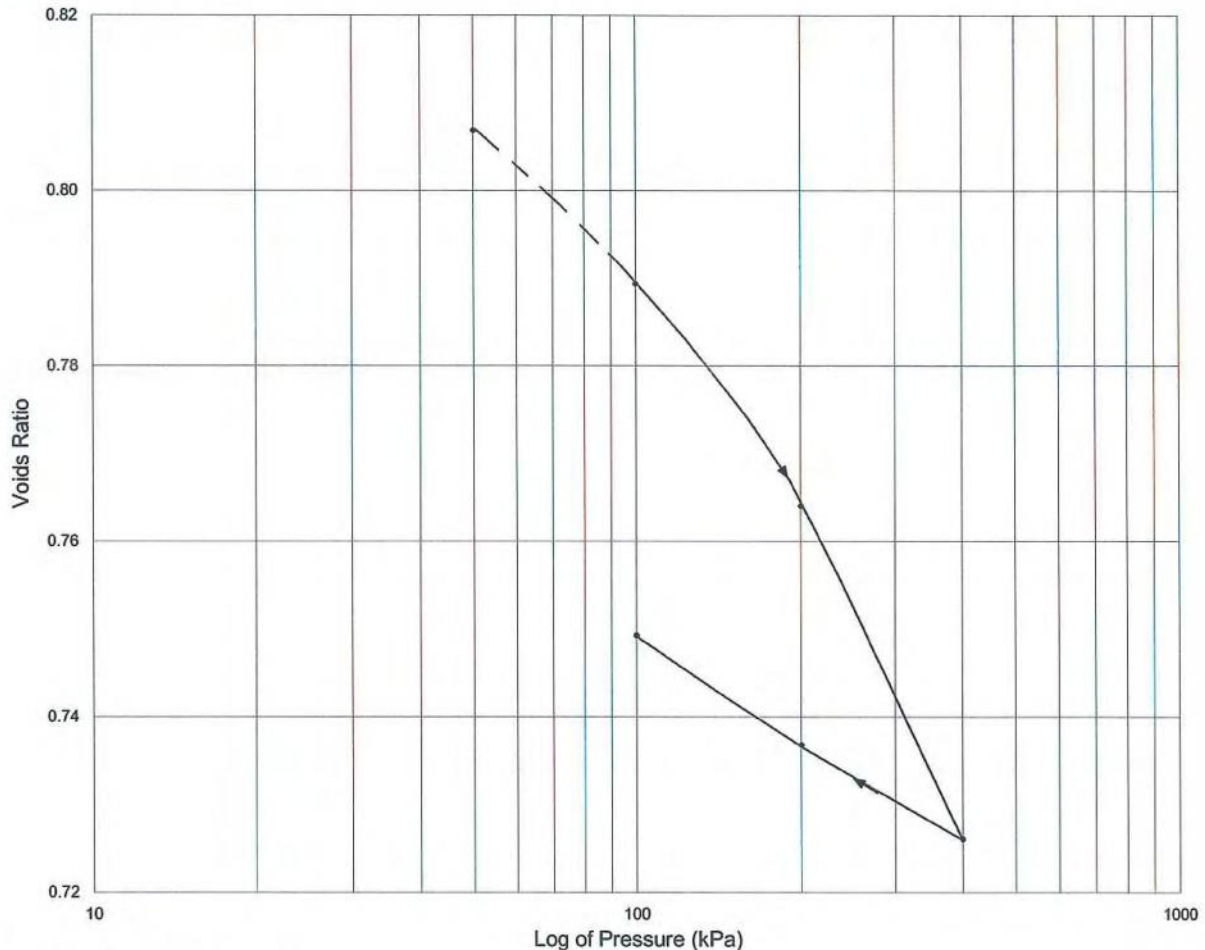


Sample details		Description	Classification Tests				Density Tests		Undrained Triaxial Compression Tests			Chemical Tests			Other tests and comments
Borehole No.	Depth (m)		MC (%)	LL (%)	PL (%)	PI	Bulk (Mg/m ³)	Dry (Mg/m ³)	Cell Pressure (kPa)	Deviator Stress (kPa)	Shear Stress (kPa)	pH	2:1 W/S SO4 (g/l)	Ground Water SO4 (g/l)	
1	5.00	- D	27	51	24	27	100								
1	17.00	- D	31	74	28	46	100								
2	2.50	- D	25	53	20	33	100								
3	3.90	- D	25	46	19	27	100								
4	2.80	- D										7.0	0.14		
5	4.10	- D										7.6	0.83		

Determination of One Dimensional Consolidation Properties of Soil

Borehole No: BH1
 Sample Ref: -
 Depth (m): 4.50
 Depth of test specimen (m): 4.54
 Orientation: Vertical
 Specimen preparation: Undisturbed

Description:
 Firm blocky greyish brown silty CLAY with
 pockets of orange brown silt



Initial Conditions:

Moisture Content (%) 28
 Voids Ratio 0.820
 Diameter (mm) 76.3
 Height (mm) 18.7
 Bulk Density (Mg/m³) 1.91
 Dry Density (Mg/m³) 1.49
 Particle Density (Mg/m³) 2.72 (Assumed)
 Laboratory Temperature (°C) 18.8

Pressure Range (kPa)	Mv (m ² /MN)	Cv (m ² /yr)	Time Fitting Method	Voids Ratio
0 - 50	-	Specimen swelled	-	0.807
50 - 100	0.193	10.2	t50	0.789
100 - 200	0.142	11.5	t50	0.764
200 - 400	0.108	9.69	t50	0.726
400 - 200	- 0.0309	10.8 (Sv)	t50	0.737
200 - 100	- 0.0721	8.01 (Sv)	t50	0.749

Checked and
Approved

Initials:

JS

Date: 06/05/2011

Project Number:

GEO / 16816

Project Name:

GREENAWAY GARDENS

Job Number: J11069

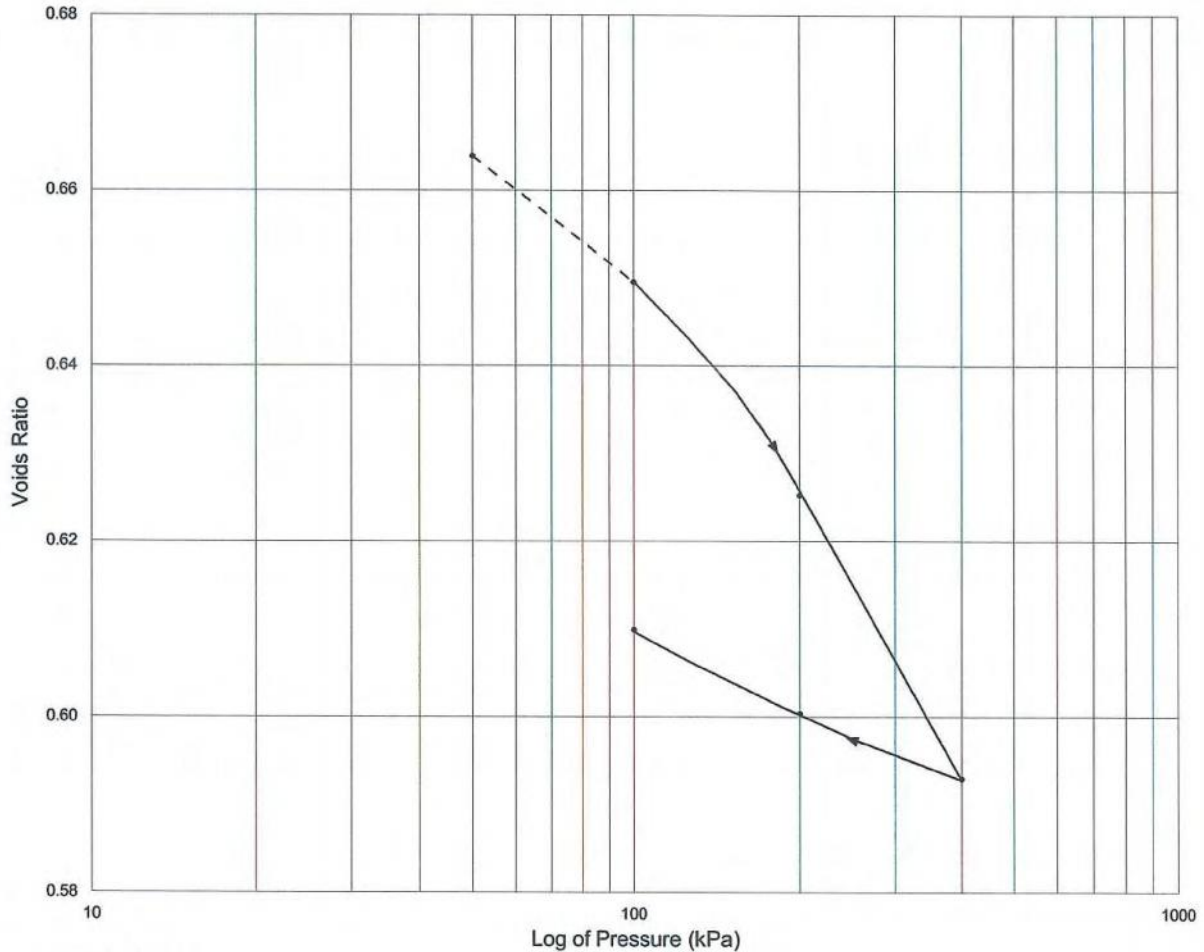


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Determination of One Dimensional Consolidation Properties of Soil

Borehole No: BH1
 Sample Ref: -
 Depth (m): 7.50
 Depth of test specimen (m): 7.53
 Orientation: Vertical
 Specimen preparation: Undisturbed

Description:
 Firm blocky grey silty CLAY



Initial Conditions:

Moisture Content (%)	24	Particle Density (Mg/m ³)	2.72 (Assumed)
Voids Ratio	0.667	Laboratory Temperature (°C)	18.8
Diameter (mm)	75.1		
Height (mm)	19.1		
Bulk Density (Mg/m ³)	2.02		
Dry Density (Mg/m ³)	1.63		

Pressure Range (kPa)	Mv (m ² /MN)	Cv (m ² /yr)	Time Fitting Method	Voids Ratio
0 - 50	-	Specimen swelled	-	0.664
50 - 100	0.172	10.2	t50	0.650
100 - 200	0.147	7.01	t50	0.625
200 - 400	0.0993	7.35	t50	0.593
400 - 200	-0.0233	15.1 (Sv)	t50	0.600
200 - 100	-0.0596	4.34 (Sv)	t50	0.610

Checked and Approved
 Initials: JS
 Date: 06/05/2011

Project Number:
GEO / 16816
 Project Name:
GREENAWAY GARDENS
 Job Number: **J11069**

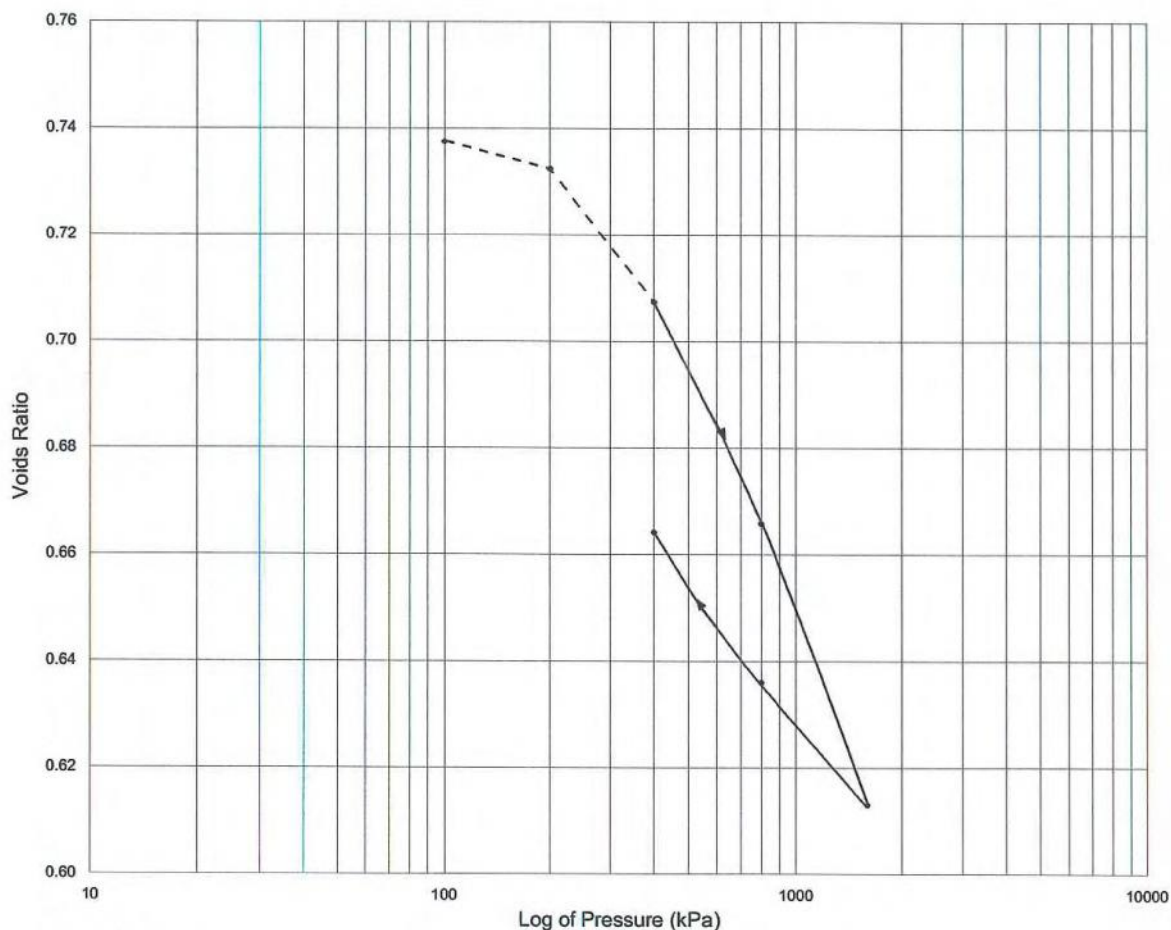


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Determination of One Dimensional Consolidation Properties of Soil

Borehole No: BH1
 Sample Ref: -
 Depth (m): 13.50
 Depth of test specimen (m): 13.52
 Orientation: Vertical
 Specimen preparation: Undisturbed

Description:
 Stiff grey CLAY



Initial Conditions:

Moisture Content (%)	28		
Voids Ratio	0.739		
Diameter (mm)	75.1	Particle Density (Mg/m ³)	2.72 (Assumed)
Height (mm)	19.0	Laboratory Temperature (°C)	18.7
Bulk Density (Mg/m ³)	2.00		
Dry Density (Mg/m ³)	1.56		

Pressure Range (kPa)	Mv (m ² /MN)	Cv (m ² /yr)	Time Fitting Method	Voids Ratio
0 - 100	-	Specimen swelled	-	0.737
100 - 200	-	Specimen swelled	-	0.732
200 - 400	0.0720	0.605	t50	0.707
400 - 800	0.0609	0.478	t50	0.666
800 - 1600	0.0396	0.594	t50	0.613
1600 - 800	-0.0178	2.11 (Sv)	t50	0.636
800 - 400	-0.0430	0.355 (Sv)	t50	0.664

Checked and Approved

Initials:

JS

Date: 06/05/2011

Project Number:

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Project Name:

GREENAWAY GARDENS

Job Number: J11069

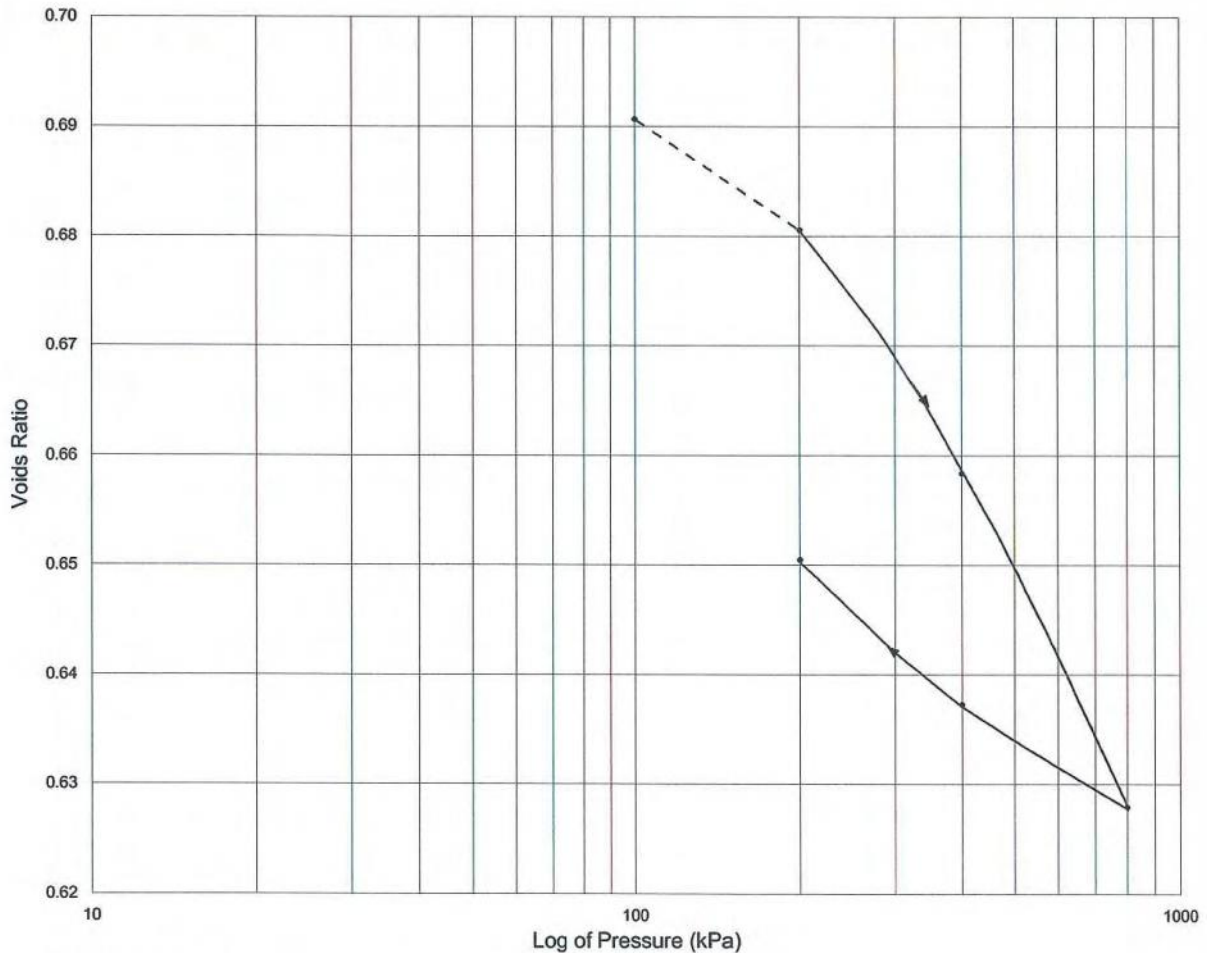


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BS1377 : Part 5 : Clause 3 : 1990
Determination of One Dimensional Consolidation Properties of Soil

Borehole No: BH1
 Sample Ref: -
 Depth (m): 19.50
 Depth of test specimen (m): 19.52
 Orientation: Vertical
 Specimen preparation: Undisturbed

Description:
 Stiff blocky grey CLAY with
 pockets of grey silt



Initial Conditions:

Moisture Content (%)	25	Particle Density (Mg/m ³)	2.72 (Assumed)
Voids Ratio	0.694	Laboratory Temperature (°C)	18.7
Diameter (mm)	74.9		
Height (mm)	19.0		
Bulk Density (Mg/m ³)	2.00		
Dry Density (Mg/m ³)	1.61		

Pressure Range (kPa)	Mv (m ² /MN)	Cv (m ² /yr)	Time Fitting Method	Voids Ratio
0 - 100	-	Specimen swelled	-	0.691
100 - 200	0.0596	8.15	t90	0.681
200 - 400	0.0660	3.92	t50	0.658
400 - 800	0.0460	2.68	t50	0.628
800 - 400	-0.0144	7.63 (Sv)	t50	0.637
400 - 200	-0.0403	2.72 (Sv)	t50	0.650

Checked and Approved

Initials:

Date: JS
06/05/2011

Project Number:

Project Name:

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GREENAWAY GARDENS
Job Number: J11069



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