

Contract A303 Horton			Client Interroute		Window Sample No BH1
Job No 721450	Date 12.03.08	Ground Level 74.53	Local Grid Co-Ordinates E:331754.1 N:114425.1		Sheet 1 of 3

Progress	Samples / Tests				Water	Instru- mentation	Description of Strata	Depth (Thick- ness)	Legend
Window Run (size (mm))	Depth	No	Type	Results					
1.00 - 2.30 (107) 100 % rec	0.20	1	B				MADE GROUND: Grass over TOPSOIL.	(0.35) 0.35	
	0.70	2	B				MADE GROUND: Firm locally stiff grey mottled brown gravelly CLAY, with occasional cobbles. Gravel is subangular fine to coarse limestone and sandstone.	(0.60) 0.95	
	1.20-1.65	1	SPT	N=4			MADE GROUND: Red fragmented bricks, no evidence of cement binding bricks together. Clay smear on surfaces of several brick fragments.	1.00 (0.30)	
	1.30	5	B				MADE GROUND: Red slightly clayey subangular medium GRAVEL of limestone.	1.30	
	1.40		HP	$c_u=90$			MADE GROUND: Stiff dark grey green slightly sandy slightly gravelly CLAY. Gravel is subangular medium flint.		
	1.60	6	B						
	1.60		HP	$c_u=145$					
	1.80		HP	$c_u=135$... With orange mottling from 1.80m depth.		
	2.00		HP	$c_u=125$					
	2.10	7	B						
3.00 - 4.50 (97) 100 % rec	2.20		HP	$c_u=145$					
	2.30	7a	D				... Undulose polished surface at 2.30m depth.	(2.10)	
	2.40	8	D						
	2.45-2.90	U1	U						
	2.90	9	D						
	3.00		HP	$c_u=125$					
	3.20	10	B						
	3.20		HP	$c_u=135$					
	3.40		HP	$c_u=80$			MADE GROUND: Stiff orange mottled dark green slightly sandy slightly gravelly CLAY. Gravel is angular fine sandstone and flint.	(0.50) 3.40	
	3.60	11	B						
4.50 - 6.00	3.60		HP	$c_u=75$					
	3.80		HP	$c_u=85$					
	4.00		HP	$c_u=85$			POSSIBLE MADE GROUND: Stiff dark grey mottled orange green CLAY.	3.90 (0.60)	
	4.20	12	B						
	4.20		HP	$c_u=75$					
	4.40		HP	$c_u=85$				4.50	
	4.50-4.95	2	SPT	N=12			Description on next sheet		

General Remarks

1. Borehole positioned by InterRoute.
2. Testing specified by InterRoute.
3. Borehole backfilled on completion.

All dimensions in metres Scale 1:25	Method Comacchio MC300	Logged By MA	Checked By	
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STRUCTURAL SOILS

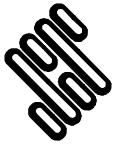
WINDOW SAMPLE LOG

Contract A303 Horton			Client Interroute		Window Sample No BH1
Job No 721450	Date 12.03.08	Ground Level 74.53	Local Grid Co-Ordinates E:331754.1 N:114425.1		Sheet 2 of 3

Progress	Samples / Tests				Water	Instrumentation	Description of Strata	Depth (Thickness)	Legend	
Window Run (size (mm))	Depth	No	Type	Results						
(97) 100 % rec	4.50	13	HP	$c_u=25$			POSSIBLE MADE GROUND: Soft locally firm grey mottled orange CLAY. (<i>stratum layer from previous sheet</i>) ... 3mm orange sandy horizon at 4.80m depth.	(1.00)		
	4.60		B							
	4.70		HP	$c_u=30$						
	4.90	14	HP	$c_u=50$						
	5.00		B							
	5.10		HP	$c_u=40$						
	5.30	15	HP	$c_u=35$						
	5.40		B							
	5.50		HP	$c_u=75$						
	5.70	16	HP	$c_u=50$			POSSIBLE MADE GROUND: Firm green mottled pale orange grey CLAY. ... 30° fracture at 5.80m depth surface covered by moist clay smear.			
6.00 - 7.50 (97) 100 % rec	5.90		B							
	5.90		HP	$c_u=65$						
	6.00-6.45	3	SPT	N=16						
	6.10		HP	$c_u=60$						
	6.30		HP	$c_u=100$						
	6.50	17	B				Stiff grey mottled orange CLAY. ... Contains blacky fissures and remnant bedding structures.			
	6.50		HP	$c_u=125$						
	6.70		HP	$c_u=125$						
	6.80	18	B							
	6.90		HP	$c_u=135$						
	7.10		HP	$c_u=125$						
	7.30	19	B							
	7.30		HP	$c_u=250+$						
	7.50-7.95		SPT	N=23						
7.50 - 9.00 (97) 100 % rec	7.50	20	HP	$c_u=250+$			Very stiff dark grey closely fissured slightly sandy CLAY. Contains occasional gypsum crystals to medium gravel size.			
	7.60		B							
	8.00		B							
	8.50	22	B							
	9.00-9.45		SPT	N=38						
	9.10		B							
	9.00 - 10.00 (97)	9.00-9.45 9.10	5 23	SPT B						

General Remarks

All dimensions in metres Scale 1:25		Method Comacchio MC300	Logged By MA	Checked By	
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Contract A303 Horton				Client Interroute				Window Sample No BH1	
Job No 721450		Date 12.03.08		Ground Level 74.53		Local Grid Co-Ordinates E:331754.1 N:114425.1		Sheet 3 of 3	
Progress	Samples / Tests				Water	Instru- mentation	Description of Strata	Depth (Thick- ness)	Legend
Window Run (size (mm))	Depth	No	Type	Results					
100 % rec							Very stiff dark grey closely fissured slightly sandy CLAY. Contains occasional gypsum crystals to medium gravel size. <i>(stratum layer from previous sheet)</i>		
	9.80	24	B						
	10.00-10.45	6	SPT	N=39					
							Window sample hole terminated at 10.45m depth.	10.45	
General Remarks									
All dimensions in metres Scale 1:25		Method Comacchio MC300		Logged By MA		Checked By			



Contract A303 Horton			Client InterRoute		Window Sample No BH2
Job No 721450	Date 14.03.08	Ground Level 74.71	Local Grid Co-Ordinates E:331722.7 N:114441.4		Sheet 1 of 3

Progress	Samples / Tests				Water	Instrumentation	Description of Strata	Depth (Thickness)	Legend
Window Run (size (mm))	Depth	No	Type	Results					
1.20 - 2.60 (107) 100 % rec	0.20	1	B	N=6			MADE GROUND: Grass over TOPSOIL.	0.05	
							MADE GROUND: Firm grey CLAY, with rootlets.	(0.30)	
								0.35	
	0.60	2	B				MADE GROUND: Firm locally soft brown slightly sandy slightly gravelly CLAY, with occasional brick fragments. Gravel is subangular fine to coarse limestone.	(0.60)	
	0.95	3	B					0.95	
	1.20-1.65	1	SPT				MADE GROUND: Red fragmented bricks, no evidence of cement binding bricks together. Clay smear on surfaces of several brick fragments.	1.20	
	1.50	5	B				MADE GROUND: Firm orange brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is subangular fine to medium flint. With gypsum crystals to coarse gravel size. Contains occasional cobbles of flint.	(0.60)	
	2.00	6	B					1.80	
	2.50	7/U1	U						
3.10 - 4.50 (97) 100 % rec	3.00	8	D					(2.70)	
	3.50	9	D						
	4.00	10	D						
	4.40	11	D					4.50	
4.50 - 6.00	4.50-4.95	2	SPT	N=7			Description on next sheet		

General Remarks				
1. Borehole positioned by InterRoute. 2. Testing specified by InterRoute. 3. Borehole completed on refusal. 4. 19mm water monitoring standpipe installed to clients specification on completion.				

All dimensions in metres Scale 1:25	Method Comacchio MC300	Logged By MA	Checked By	
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STRUCTURAL_SOILS_V6_02_GLB - V8 - WINDOW SAMPLE LOG | 721450_A303_HORTON.GPJ - STRUCTURAL_SOILS_V6_02.GDT | 25/06/08 - 16:25



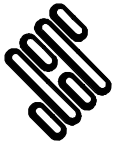
Contract A303 Horton			Client Interroute		Window Sample No BH2
Job No 721450	Date 14.03.08	Ground Level 74.71	Local Grid Co-Ordinates E:331722.7 N:114441.4		Sheet 2 of 3

Progress	Samples / Tests				Water	Instrumentation	Description of Strata	Depth (Thickness)	Legend
Window Run (size (mm))	Depth	No	Type	Results					
(97) 100 % rec	4.70	12	B				MADE GROUND: Soft green mottled orange brown slightly gravelly CLAY. Gravel is subangular fine to medium flint and sandstone. (stratum layer from previous sheet)	(0.70)	
	5.00	13	B					5.20	
							Uncompact highly plastic organic SILT with rootlets and occasional gravel of mixed lithologies.		
	5.50	14	B					(0.60)	
							Soft grey CLAY.	5.80	
								(0.30)	
6.00 - 7.50 (97) 100 % rec	6.00	15/U2	U				Stiff grey CLAY, locally becomes slightly sandy. Contains abundant gypsum crystals.	6.10	
	6.50	16	B						
								(1.40)	
	7.00	17	B						
								7.50	
	7.50-7.95	3	SPT	N=15			Stiff grey thinly laminated slightly sandy CLAY.		
	7.50	18	B						
	7.60	19	B						
								(1.50)	
	8.20	20	B						
	8.70	21	B						
								9.00	
	9.00-9.45	4	SPT	N=24			Stiff grey CLAY with occasional fragments of gypsum.		

General Remarks				

All dimensions in metres Scale 1:25	Method Comacchio MC300	Logged By MA	Checked By	
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STRUCTURAL_SOILS_V6_02.GLB - V8 - WINDOW SAMPLE LOG | 721450_A303_HORTON.GPJ - STRUCTURAL_SOILS_V6_02.GDT | 25/06/08 - 16:25



Contract A303 Horton			Client Interroute			Window Sample No BH2	
Job No 721450		Date 14.03.08	Ground Level 74.71		Local Grid Co-Ordinates E:331722.7 N:114441.4		Sheet 3 of 3

Progress	Samples / Tests				Water	Instru- mentation	Description of Strata	Depth (Thick- ness)	Legend
Window Run (size (mm))	Depth	No	Type	Results					
	9.20	22	B	N=26		Stiff grey CLAY with occasional fragments of gypsum. <i>(stratum layer from previous sheet)</i>	(3.40)		
	9.60	23	B						
	10.10	24	B						
	10.50-10.95	5	SPT						
	10.60	25	B						
	11.00	26	B	N=60*					
	11.50	27	B						
	12.00-12.40	6	SPT						
12.00	28	B							
Window sample hole terminated at 12.40m depth.							12.40		

General Remarks	

All dimensions in metres Scale 1:25		Method Comacchio MC300	Logged By MA	Checked By	
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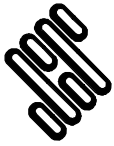
Contract A303 Horton			Client Interroute		Window Sample No BH3
Job No 721450	Date 14.03.08	Ground Level 74.59	Local Grid Co-Ordinates E:331714.5 N:114445.5		Sheet 1 of 2

Progress	Samples / Tests				Water	Instrumentation	Description of Strata	Depth (Thickness)	Legend
Window Run (size (mm))	Depth	No	Type	Results					
1.20 - 2.60 (97) 100 % rec	0.50	1	B				MADE GROUND : Firm to stiff unstratified grey brown mottled orange slightly sandy gravelly CLAY. Gravel is subrounded to subangular fine to coarse limestone, sandstone, brick fragments and tarmac fragments.	(1.20)	
	1.00	2	B					1.20	
	1.20-1.65	1	SPT	N=7			MADE GROUND : Firm brown mottled dark green CLAY.	(0.40)	
	1.20		HP	$c_u=60$				1.60	
	1.40	5	B				MADE GROUND : Stiff dark grey mottled orange brown CLAY.	(0.80)	
	1.40		HP	$c_u=55$				2.40	
	1.60		HP	$c_u=60$			MADE GROUND : Firm dark grey green CLAY. With occasional gypsum crystals.	(1.10)	
	1.80	6	B					3.50	
	1.80		HP	$c_u=125$				4.10	
	2.00		HP	$c_u=100$			MADE GROUND : Pale green clayey slightly sandy subrounded to subangular fine to coarse GRAVEL of flint and sandstone.	(0.60)	
3.00 - 4.50 (97) 100 % rec	2.20	7	B				MADE GROUND : Firm dark green mottled orange slightly gravelly CLAY. Gravel is subrounded fine to coarse flint and sandstone.	(0.30)	
	2.20		HP	$c_u=85$				4.40	
	2.40		HP	$c_u=120$			Description on next sheet		
	2.56	U1	U						
	2.60		HP	$c_u=80$					
4.50 - 6.00	2.80		HP	$c_u=90$					
	3.00-3.45	2	SPT	N=10					
	3.00		HP	$c_u=95$					
	3.20		HP	$c_u=60$					
	3.30	8	B						
	3.40		HP	$c_u=65$					
	3.70	9	B						
	4.20	10	D						
	4.20		HP	$c_u=65$					
	4.40		HP	$c_u=55$					
	4.50-4.95	3	SPT	N=16					

General Remarks

1. Borehole positioned by InterRoute.
2. Testing specified by InterRoute.
3. Borehole completed on clients instructions.
4. Borehole backfilled on completion.

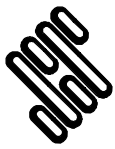
All dimensions in metres Scale 1:25	Method Comacchio MC300	Logged By MA	Checked By	
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Contract A303 Horton			Client Interroute			Window Sample No BH3
Job No 721450	Date 14.03.08	Ground Level 74.59	Local Grid Co-Ordinates E:331714.5 N:114445.5		Sheet 2 of 2	

Progress	Samples / Tests				Water	Instru- mentat ion	Description of Strata	Depth (Thick- ness)	Legend			
Window Run (size (mm))	Depth	No	Type	Results								
(87) 100 % rec	4.50	11	HP	c _u =30		MADE GROUND : Soft to firm orange mottled pale grey green slightly sandy slightly gravelly CLAY. Gravel is subrounded to subangular fine to medium flint and sandstone. <i>(stratum layer from previous sheet)</i>	(1.10)					
	4.60		B									
	4.70		HP	c _u =35								
	4.90	12	HP	c _u =40								
	5.00		B									
5.30	12	HP	c _u =35	5.50								
5.70		13	B									
6.00 - 7.50 (87) 100 % rec	6.00	U2	U	N=19					Stiff grey mottled dark green slightly sandy slightly gravelly CLAY. Gravel is subangular medium flint. Green mottling decreases with depth.	(2.45)		
	6.10	14	B									
	6.60	15	B									
	7.00	16	B									
	7.50-7.95	4	SPT									
Window sample hole terminated at 7.95m depth.							7.95					

General Remarks						
All dimensions in metres Scale 1:25		Method Comacchio MC300		Logged By MA		Checked By




Contract A303 Horton		Client Interroute		Window Sample No BH4
Job No 721450	Date 17.03.08	Ground Level 74.73	Local Grid Co-Ordinates E:331705.9 N:114449.4	Sheet 1 of 2

Progress	Samples / Tests				Water	Instru- mentation	Description of Strata	Depth (Thick- ness)	Legend
Window Run (size (mm))	Depth	No	Type	Results					
1.20 - 2.60 (107) 100 % rec							MADE GROUND: Grass over TOPSOIL.	0.10	
	0.40	1	D				MADE GROUND: Firm locally soft unstratified grey mottled orange brown slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse sandstone, limestone and tarmac fragments.	(0.50)	
	0.65	2	D				MADE GROUND: Red fragmented bricks, no evidence of cement binding bricks together. Clay smear on surfaces of several brick fragments.	0.60 0.70	
	1.00	3	D				MADE GROUND: Firm dark green grey mottled black CLAY.	(0.50) 1.20	
	1.20-1.65 1.30	1	SPT HP	N=7 $c_u=60$			MADE GROUND: Firm pale grey green mottled orange CLAY.		
	1.50 1.50 1.60	5	B HP HP	$c_u=75$ $c_u=70$				(0.90)	
	1.80 1.80 2.00	6	B HP HP	$c_u=65$ $c_u=60$				2.10	
	2.20 2.30 2.40	7	HP B HP	$c_u=80$ $c_u=50$			MADE GROUND: Firm dark grey mottled green slightly sandy slightly gravelly CLAY. Gravel is subangular medium flint. Contains fibrous gypsum crystals to coarse gravel size.		
	2.60 2.60	U1	U HP	$c_u=50$				(1.30)	
	3.00 - 4.50 (97) 100 % rec	3.00	HP	$c_u=40$... From 3.10m depth clay appears to contain blocky fractures.	3.40	
4.50 - 6.00	3.20 3.20	8	B HP	$c_u=45$			MADE GROUND: Soft dark grey mottled green CLAY. Contains fibrous gypsum crystals to coarse gravel size.	3.60	
	3.40 3.50	9	HP B	$c_u=35$			MADE GROUND: Soft dark grey slightly gravelly CLAY. Gravel is subrounded coarse flint.	(0.30) 3.90	
	3.60 3.70 3.80	10	HP B HP	$c_u=40$ $c_u=35$			MADE GROUND: Orange mottled yellow brown clayey subangular to subrounded fine to coarse GRAVEL of flint and sandstone.	4.10	
	4.00	11	B				... Sample tube contained free water within this horizon.		
	4.20 4.30 4.40	12	HP B HP	$c_u=35$ $c_u=30$			POSSIBLE MADE GROUND : Soft dark grey green mottled orange CLAY.	(0.55)	
	4.50-4.95	2	SPT	N=17					

General Remarks

1. Borehole positioned by InterRoute.
2. Testing specified by InterRoute.
3. Borehole completed on clients instructions.
4. Borehole backfilled on completion.

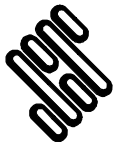
All dimensions in metres Scale 1:25	Method Comacchio MC300	Logged By MA	Checked By	
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Contract A303 Horton			Client Interroute		Window Sample No BH4
Job No 721450	Date 17.03.08	Ground Level 74.73	Local Grid Co-Ordinates E:331705.9 N:114449.4		Sheet 2 of 2

Progress	Samples / Tests				Water	Instru- men- ta- tion	Description of Strata	Depth (Thick- ness)	Legend
Window Run (size (mm))	Depth	No	Type	Results					
(97) 100 % rec	4.60 4.60 4.70 4.80	13 14	B HP B HP	$c_u=50$ $c_u=65$			POSSIBLE MADE GROUND : Firm dark grey green slightly sandy CLAY.	4.65	
	5.10 5.20	15	B HP	$c_u=75$					
	5.40		HP	$c_u=70$				(1.80)	
	5.60		HP	$c_u=60$					
	5.80		HP	$c_u=60$					
	5.90	16	B						
	6.00-6.45	3	SPT	N=22				6.45	
							Window sample hole terminated at 6.45m depth.		

General Remarks				
All dimensions in metres Scale 1:25	Method Comacchio MC300	Logged By MA	Checked By	



Contract				Client				Trialpit No	
A303 Horton				Interroute				TP1	
Job No		Date		Ground Level		Local Grid Co-Ordinates		Sheet	
721450		14.03.08		71.38		E:331752.7 N:114433.8		1 of 1	

Samples and In-situ Tests				Water	Description of Strata	Depth (Thickness)	Legend	
Depth	No	Type	Results					
0.10	1	D	c _u =98		MADE GROUND: TOPSOIL	0.15		
0.30	2	D			MADE GROUND: Stiff orange brown slightly gravelly CLAY. Gravel is subangular fine to coarse subrounded limestone and sandstone.	(0.40)		
0.40		V				0.55		
0.60	3	D	c _u =60 c _u =90		MADE GROUND: Firm orange green CLAY.	0.70		
0.60		V			MADE GROUND: Stiff grey CLAY.	(0.50)		
0.80		V						
1.00	4	D				1.20		
					Trial pit terminated at 1.2m depth.			

Plan (Not to Scale)

0.50

Bearing 180°






General Remarks

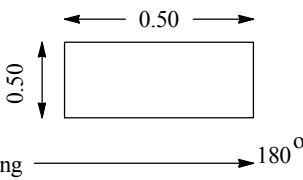
1. Trial pit easy to dig.
2. Trial pit stable.
3. No ground water encountered.
4. Trial pit backfilled on completion.

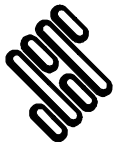
All dimensions in metres		Method		Logged By		Checked By	
Scale 1:25		Hand Dug		MA		AGS	



Contract A303 Horton			Client Interroute		Trialpit No TP2
Job No 721450	Date 14.03.08	Ground Level 70.63	Local Grid Co-Ordinates E:331727.3 N:114449.1		Sheet 1 of 1

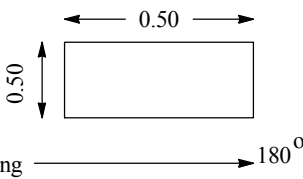
Samples and In-situ Tests				Water	Description of Strata	Depth (Thickness)	Legend
Depth	No	Type	Results				
0.15	1	D	c _u =98		MADE GROUND: TOPSOIL.	0.25	
0.30 0.30	2	D V			MADE GROUND: Stiff brown slightly gravelly CLAY. Gravel is subrounded to subangular limestone and flint.	(0.30) 0.55	
0.60 0.60	3	D V	c _u =108		POSSIBLE MADE GROUND: Stiff grey CLAY.	(0.80)	
1.00	4	D	c _u =145		POSSIBLE MADE GROUND: Stiff grey slightly sandy CLAY. Sand is medium to coarse in size, and orange yellow in colour.	1.35	
1.35 1.40 1.50	5 5	D V D			Trial pit terminated at 1.5m depth.	1.50	

Plan (Not to Scale) 	General Remarks 1. Trial pit easy to dig. 2. Trial pit stable. 3. No ground water encountered. 4. Trial pit backfilled on completion.			
All dimensions in metres Scale 1:25	Method Hand Dug	Logged By MA	Checked By	



Contract A303 Horton		Client Interroute		Trialpit No TP3
Job No 721450	Date 14.03.08	Ground Level 70.88	Local Grid Co-Ordinates E:331711.5 N:114457.6	Sheet 1 of 1

Samples and In-situ Tests				Water	Description of Strata	Depth (Thickness)	Legend
Depth	No	Type	Results				
0.10	1	D			MADE GROUND: TOPSOIL.	0.15	
0.20	2	D			MADE GROUND: Firm orange brown slightly gravelly CLAY. Gravel is subangular fine to medium flint.	0.35	
					MADE GROUND: Firm grey green CLAY.	(0.45)	
0.60	3	D				0.80	
					POSSIBLE MADE GROUND: Stiff dark grey slightly sandy CLAY.	(0.40)	
1.00	4	D				1.20	
					Trial pit terminated at 1.2m depth.		

Plan (Not to Scale) 	General Remarks 1. Trial pit easy to dig. 2. Trial pit stable. 3. No ground water encountered. 4. Trial pit backfilled on completion.		
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All dimensions in metres Scale 1:25	Method Hand Dug	Logged By MA	Checked By	
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STRUCTURAL_SOILS_V6_02.GLB - V8 - TRIALPIT LOG | 721450_A303_HORTON.GPJ - STRUCTURAL_SOILS_V6_02.GDT | 25/06/08 - 16:26