

Borehole Log - CS247A (Gravel)



Drilled Logged Checked	RB CP AF	Start 05/02/2009 End 06/02/2009	Equipment, Methods and Remarks Dando 2000 Hand dug inspection pit G.L. - 1.20m. Light castle percussion 1.20 - 9.00m. Borehole terminated on client's instruction.	Depth from 0.00m to 2.00m	to 2.00m 9.00m	Diameter 200mm 150mm	Casing Depth 2.00m 9.00m	Ground Level Coordinates National Grid Chainage	
Samples and Tests				Strata					
Depth	Type & No	Records	Date Casing	Time Water	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.00-0.20	B 1		05/02/2009	0800	MADE GROUND: Soft to firm brown slightly sandy slightly gravelly silty CLAY with low cobble content. Gravel is angular to subrounded fine to coarse of brick, sandstone and concrete. Cobbles are angular of brick and concrete.	(0.30)			
0.30-0.50	B 2					0.30			
0.50-1.20	B 3					0.50 (0.30)			
					MADE GROUND: Brown slightly clayey sandy angular to subrounded fine to coarse GRAVEL of brick, sandstone, concrete and mudstone with low cobble content. Cobbles are subangular of sandstone.	(1.00)			
1.80-2.00	B 4				MADE GROUND: Brown slightly clayey gravelly fine to coarse SAND with low cobble content and occasional rootlets. Gravel is angular to subangular fine to coarse of sandstone and brick. Cobbles are subangular of brick.	1.80			
2.00-2.50	B 5					(0.70)			
2.50-3.00	B 6				MADE GROUND: Soft to firm red brown mottled blue grey sandy slightly gravelly silty CLAY. Gravel is angular to subrounded fine to coarse of sandstone.	2.50			
3.00-3.30	B 7				Soft red brown sandy slightly gravelly silty CLAY. Gravel is subangular to subrounded fine to coarse of sandstone.				
4.00-4.30	B 8				Firm red brown slightly sandy slightly gravelly silty CLAY. Gravel is subrounded fine to coarse of sandstone and mudstone.	(3.50)			
5.00-5.30	B 9								
6.00-6.30	B 10		05/02/2009 06/02/2009	1700 0800 2.00 1.74	Brown slightly clayey locally clayey slightly sandy angular to subrounded fine to coarse GRAVEL of sandstone and mudstone with low cobble content. Cobbles are angular to subrounded of sandstone.	6.00			
7.00-7.30	B 11					(2.30)			
8.00-8.30	B 12					8.30			
8.30-9.00	B 13		06/02/2009	1700 9.00 3.50	Firm red brown slightly sandy slightly gravelly silty CLAY. Gravel is angular to subrounded of mudstone (Possible Mercia Mudstone Zone IV/III).	(0.70)			
					EXPLORATORY HOLE ENDS AT 9.00 m	9.00		SP	
Groundwater Entries				Depth Related Remarks *				Chiselling	
No.	Struck (m)	Post strike behaviour	Depth sealed (m)	From	to (m)	Depth (m)	Time	Tools used	
1	6.00	Rose to 2.00 m after 20 minutes.	-			1.20 - 1.30	60 mins	Chisel	
						5.00 - 5.30	60 mins	Chisel	
						6.00 - 6.20	60 mins	Chisel	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.				Project Groundwater Monitoring System - Replacement of Boreholes H9010 Project No. Cardiff County Council Harbour Authority Carried out for				Borehole CS247A Sheet 1 of 1	
Scale 1:50 (C) I.S.G. www.isg.co.uk 2014 02/25/14 42:11									

Holst & Co Limited Site Investigation Division Parkside Lane, Dewsbury Road, Leeds, LS11 5SX									
Contract No. C5090/F1844			Borehole No. 3						
Location Gardiff			Ground Level						
Client Chapman and Smart			Date 26.5.71						
BOREHOLE LOG									
STRATA	Legend	Depth below Ground Level	Thickness of Strata	Type of Sample	c lb/sq. ft.	a deg.	m.c %	y lb/cu. ft.	N
Tarmac		0'3"	0'3"						
MADE GROUND:- Clay, ash, stones, brick etc.		3'0"	2'9"	3'6" □	480	0	28.6	125	
Soft light brown silty sandy clay		5'0"	2'0"	8'0" I					38
Brown very clayey sand and gravel, with soft clay matrix and occasional bobbles			19'0"	15'0" □	2900	0	7.7	143	
		24'0"		22'0" I					50
Firm red marly clay with marl fragments		30'0"	6'0"	24'0" □	430	5	29.8	113	
Hard red marl			4'0"	32'0" ±					78 for 8"
		34'0"							
Water Struck at None Encountered					Maximum Observed Water Level				
Water levels are subject to seasonal or tidal variation and should not be taken as constant									

<p style="text-align: center;">Holst & Co Limited Site Investigation Division Parkside Lane, Dewsbury Road, Leeds, LS11 5SX</p>										
Contract No. <u>C5090/F1844</u>					Borehole No. <u>2</u>					
Location <u>Cardiff</u>					Ground Level.....					
Client <u>Chapman and Smart</u>					Date <u>25.5.71</u>					
BOREHOLE LOG										
STRATA	Legend	Depth below Ground Level	Thickness of Strata	Type of Sample	c lb/sq ft.	a deg.	m.c % _n	y lb/cu. ft.	N	
Tarmac		0'3"	0'3"	1'6"						
MADE GROUND:- Clay, stones, brick etc.		3'6"	3'3"	□	690	0	20.1	118		
Brown very clayey sand and gravel with soft clay matrix and occasional cobbles			18'6"	6'0"						47
				15'6"						
Soft light brown silty sandy clay		22'0"	22'6"	□	430	0	25.0	131		
Firm red marly clay with marl fragments		25'0"	3'0"							
Hard red marl		29'0"	4'0"	32'6"						85 for 4"
				33'0"	4'0"	32'6"				
<p>Water Struck at <u>None Encountered</u> Maximum Observed Water Level</p> <p style="text-align: center;">Water levels are subject to seasonal or tidal variation and should not be taken as constant</p>										

ST 17NE/194,195.

Description	Thickness	Depth
Made ground (concrete)	2'6"	2'6"
Made ground (dirty soil, organic matter, etc.)	2'6"	5'0"
Soft to firm brown silty clay with stones and dirty patches.	2'0"	7'0"
Firm brown sandy clay with scattered stones and seams of weathered sandstone.	2'0"	9'0"
Compact fine grained sandstone	3'0"	12'0"
TOTALS	12'0"	12'0"

- Notes
1. Descriptions are in accordance with B.S. Code of Practice C.P. 2001. Clients are requested to compare with samples submitted.
 2. Core samples are nominally 4 ins. diameter and 18 ins. long. Depths shown are to top of sample.

Description	Thickness	Depth
Made ground (dirty soil, concrete, stones etc.)	5'0"	5'0"
Stiff brown sandy clay with stones and broken sandstone some dirty patches.	2'0"	7'0"
Compact fine grained sandstone	3'0"	10'0"
TOTALS	10'0"	10'0"

- Notes
1. Descriptions are in accordance with B.S. Code of Practice C.P. 2001. Clients are requested to compare with samples submitted.
 2. Core samples are nominally 4 ins. diameter and 18 ins. long.

ST17NE/424/5 Geol. Dept. Cardiff. C-185 755. Ref. Nos 67 & 68
 Borehole Nos 2 & 4 RECORD OF 2 1/2 inch sheet. ST/17
 At F. Gilbert (Cardiff) BORE OR FIT ST17NE/424/5
 For ditto

Borers. Site exploration
 Purpose. Site exploration Date 1962
 Surface Level above O.D. [blacked out]
 Standing water level below top.
 Yield.

GEOLOGICAL NOTES	ORIGINAL DESCRIPTION.	Thickness		Depth.	
		Ft.	In.	Ft.	In.
(67) 17NE/424 Fresh Head 17NE/425	B.H. 2. S.L. 27.78 Made ground including infilling of Glamorgan Canal Dark grey silt and compact boulders gravel and sandy clay soft to firm red clay sand	(8.5)			
		13	3	13	3 (+4.5)
		1	9	15	0
		11	0	26	0 (7.92m)
		7	6	33	6 (+0.6)
					(10.21m)
(68) Fresh Head 17NE/425	B.H. 4. S.L. 27.18 Made ground including infilling of Glamorgan Canal Firm sandy clay and boulders Red clay-sand	(48.3)			
		12	0	12	0 (+4.6)
		17	0	29	0 (-0.1)
		2	0	31	0 (8.84m)
					(9.45m)
	Boreholes 1, 3, and 5 give similar results but are shallower and do not reach rock.				