

Summary of Test Results (page 1 of 2)

BH-6															Land mark	
Sample No.	Depth (m)	W _n (%)	Atterberg Limits			Sieve Analysis				USCS Group ^a	Soil Strength		Unit ^d Weight (kN/m ³)	SPT-N ^e (Blows/ 300 mm)		
			LL	PL	PI	1" - 3/4"	1/2"	3/8"	#4		P _{uc} ^b	Torvane				
ST-1	1.50	2.00	-	-	-	-	-	-	No Recovery				-	-		
ST-2	3.00	3.50	-	-	-	-	-	-	No Recovery				-	-		
ST-3	4.50	5.00	-	-	-	-	-	-	No Recovery				-	-		
ST-4	6.00	6.50	70.4	-	-	-	-	-	-	(CH)	0.0	14.9	13.0	-		
ST-5	7.50	8.00	66.8	27.6	44.7	-	-	-	100	98	0.0	10.0	15.0	-		
ST-6	9.00	9.50	47.5	-	-	-	-	-	-	(CH)	0.0	18.0	15.9	-		
ST-7	10.50	11.00	-	-	-	-	-	-	No Recovery				-	-		
ST-8	12.00	12.50	54.6	30.5	46.4	-	-	-	100	97	0.0	20.0	16.4	-		
ST-9	13.50	14.00	70.7	-	-	-	-	-	-	(CH)	0.0	28.0	15.1	-		
ST-10	14.00	14.50	23.9	30.5	33.9	-	-	-	100	95	50.0	32.0	19.1	-		
SS-1	15.00	15.45	25.7	-	-	-	-	-	100	97			19.8	23		
SS-2	16.50	16.95	26.5	21.9	6.6	-	-	-	-	CL			19.0	28		
SS-3	18.00	18.45	17.4	-	-	-	-	-	-	(CL)			-	27		
SS-4	19.50	19.95	24.2	22.3	29.1	-	-	-	100	92			-	28		
SS-5	21.00	21.45	20.5	-	-	-	-	-	-	(CH)			-	32		
SS-6	22.50	22.95	17.4	16.1	27.3	-	-	-	100	97			21.1	50		
SS-7	24.00	24.45	22.0	-	-	-	-	-	-	CL			-	32		
SS-8	25.50	25.95	21.4	19.9	26.8	-	-	-	100	99			-	51		
SS-9	27.00	27.45	19.1	22.3	20.8	-	-	-	100	96			20.2	28		
SS-10	28.50	28.95	20.4	Insufficient Sample		-	-	-	100	98			-	36		
SS-11	30.00	30.45	21.6	Insufficient Sample		-	-	-	100	98			-	50		
SS-12	31.50	31.95	17.8	Non Plastic		-	-	-	100	96			-	65		
SS-13	33.00	33.45	17.4	Non Plastic		-	-	-	100	97			-	65		
SS-14	34.50	34.95	18.7	Non Plastic		-	-	-	100	86			-	56		
SS-15	36.00	36.45	25.6	Non Plastic		-	-	-	100	99			-	63		
SS-16	37.50	37.95	31.8	54.3	23.9	30.4	-	-	100	99			-	68		
SS-17	39.00	39.45	21.2	-	-	-	-	-	No Recovery				-	79		

Notes:

^a USCS groups provided in parenthesis are from visual classification

^b P_{uc} = Pocket Penetrometer Resistance

^c S_{uc} = q_u/2; where q_u is Unconfined Compressive Strength from Unconfined Compression Test

^d Unit Weight provided for split spoon samples (SS) are for disturbed samples from SPT tests.

^e If the sampler is driven less than 450 mm, the number of blows per each complete and partial (less than or equal to 150 mm) increments were recorded.

Summary of Test Results (page 2 of 2)

Land mark

BH-6

Sample No.	Depth (m)	W _n (%)	Atterberg Limits			Sieve Analysis							USCS Group ^a	Soil Strength (kN/m ²)		Unit ^d Weight (kN/m ³)	SPT-N ^e (Blows/ 300 mm)		
			(%)			% Passing (US Standard Sieve)								P _{uc} ^b	S _{uc} ^c				
			LL	PL	PI	1"	3/4"	1/2"	3/8"	#4	#10	#40	#100			#200			
SS- 18	40.50	40.95	18.2	30.5	19.3	11.2							100	82	73		CL	65	
SS- 19	42.00	42.45	24.8	Insufficient Sample									100	99	93	83	(CL)	69	
SS- 20	43.50	43.95	17.4	Insufficient Sample									100	99	80	68	(CL)	55	
SS- 21	45.00	45.45	23.4	Insufficient Sample									100	97	95		(CL)	59	
SS- 22	46.50	46.95	31.8	Insufficient Sample									100	98	91	85	(CL)	48	
SS- 23	48.00	48.45	21.0	Insufficient Sample									100	85	74		(CL)	53	
SS- 24	49.50	49.95	28.6	Insufficient Sample									100	99	80	70	(CL)		20, 50/100, -
SS- 25	51.00	51.45	19.5	Non Plastic									100	26	20		SM		50/150, -, -
SS- 26	52.50	52.95	21.2	46.8	21.8	25.0							100	91	90	89	CL	70	
SS- 27	54.00	54.45	17.4	42.4	23.9	18.5							100	99	98	97	CL		45, 50/100, -
SS- 28	55.50	55.95	13.3	Non Plastic			100	98					70	32	23	20	SM		50/100, -, -
SS- 29	57.00	57.45	10.2	Non Plastic					100	79	36	22	17				SM		50/125, -, -
SS- 30	58.50	58.95	19.9	Non Plastic			100	98		84	51	42	39				SM		50/150, -, -
SS- 31	60.00	60.45	11.1	Non Plastic			100	94		76	29	17	13				SM		50/75, -, -

Notes:

^a USCS groups provided in parenthesis are from visual classification^b P_{uc} = Pocket Penetrometer Resistance^c S_{uc} = q_u/2, where q_u is Unconfined Compressive Strength from Unconfined Compression Test^d Unit Weight provided for split spoon samples (SS) are for disturbed samples from SPT tests.^e If the sampler is driven less than 450 mm, the number of blows per each complete and partial (less than or equal to 150 mm) increments were recorded.

Borehole Number : BH-6

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Project : โครงการสำรวจออกแบบและจัดทำแผนแม่บทเพื่อพัฒนาริมฝั่งแม่น้ำเจ้าพระยา

Site Location : ที่ดินส่วนบุคคล

Latitude (N) : 13.77748

Ground Elevation (m) :

Longitude (E) : 100.49904

G.W.L (m) : 0.50

Date Started : 20/6/2559

Total Depth (m) : 60.45

Date Finished : 21/6/2559

Depth	SAMPLE			SUBSURFACE PROFILE		Atterberg Limits (%) 20 40 60 80 100	Unit Weight 5 15	Suc (kN/m^2) ▲ 20 40 60 80 ▲			
	Symbol	Type	Number	Description	Symbol			SPT-N □(Blows/300mm)□ 20 40 60 80			
0				Ground Surface							
1				Fill Material, concrete debris (No Recovery)	0.00						
2	■	ST	1								
3	■	ST	2								
4	■	ST	3								
5	■	ST	4								
6	■	ST	4	Very soft to soft CLAY, grey, high plasticity (CH)	5.50		□	●	10.9	▲	
7									10	▲	
8	■	ST	5			—	—	●	14	▲	
9	■	ST	6				□	●			
10											
11	■	ST	7								
12	■	ST	8			—	—	●	18.6	▲	
13											
14	■	ST	9				□	●	22.6	▲	
15	■	ST	10	Very stiff silty CLAY, grey and light brown, low and high plasticity (CL, CH)	14.50		□	●	23	□	
16	■	SS	1					●	28	□	
17	■	SS	2			—	—	●	27	□	
18	■	SS	3				□		28	□	
19									32	□	
20	■	SS	4			—	—				
21	■	SS	5	Hard silty CLAY, light brown, low plasticity (CL)	20.50		□				
22									50	□	
23	■	SS	6			—	—	●	32	□	
24	■	SS	7				□				
25	■	SS	8			—	—		51	□	
26	■	SS	8						28	□	
27	■	SS	9	Very stiff silty CLAY, brown, low plasticity (CL)	26.50		□	●	36	□	
28					28.00						
29	■	SS	10	Hard silty CLAY, brown, low plasticity (CL)			□				
30	■	SS	11				□		50	□	
31					31.00						
Thin wall tube Split spoon Rock core Wash Auger				PL Wn LL Atterberg Limits : ———— □ ———— Suc : Undrained shear strength from UC test							

Borehole Number : BH-6

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SAMPLE				SUBSURFACE PROFILE						Suc (kN/m ²)							
Depth	Symbol	Type	Number	Description	Symbol	Atterberg Limits (%)					Unit Weight	SPT-N □(Blows/300mm)□					
						20	40	60	80	100		20	40	60	80		
						5	15										
32	SS	12		Very dense silty SAND, brown, fine to medium grained (SM, SP-SM)		□											65
33	SS	13				□											65
34	SS	14				□											56
35	SS	15				□											63
36	SS	15				□											68
37	SS	16		Hard silty CLAY, grey and brown, low plasticity (CL)	37.00	□	—	—									79
38	SS	17				□											65
39	SS	18				□	—	—									69
40	SS	19				□											55
41	SS	20				□											59
42	SS	21				□											48
43	SS	22				□											53
44	SS	23				□											50/
45	SS	24				□											50/
46	SS	25		Very dense silty SAND, brown, very fine to fine grained (SM)	50.50	□											70
47	SS	26		Hard silty CLAY, brown, low plasticity (CL)	52.00	□	—	—									50/
48	SS	27				□	—	—									50/
49	SS	28		Very dense silty SAND, brown, fine to medium grained (SM)	55.00	□											50/
50	SS	29				□											50/
51	SS	30				□											50/
52	SS	31				□											50/
53	SS	31				□											50/
54	SS	31				□											50/
55	SS	31				□											50/
56	SS	31				□											50/
57	SS	31				□											50/
58	SS	31				□											50/
59	SS	31				□											50/
60	SS	31				□											50/
61				End of Borehole	60.45												
62																	

Thin wall tube

Split spoon

Rock core

Wash

Auger

Atterberg Limits :

PL

Wn

LL

Suc : Undrained shear strength from UC test

Thin wall tube
Split spoon
Rock core
Wash
Auger

Atterberg Limits : PL Wn LL
Suc : Undrained shear strength from UC test

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