



BNN DESIGN AND CONSULTANT CO.,LTD.

Soil Boring and Testing , Surveying , Geotechnical Structure and Slope Protection Design

SUMMARY OF TEST RESULT

Project : ก่อสร้างถนน กาญจนภิเษก-พุทธมณฑล สาย2

Date of Boring : 14 พฤศจิกายน 2561

Location : พุทธมณฑล สาย2 เขตทวีวัฒนา กรุงเทพมหานคร

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SAMPLE NUMBER	DEPTH		PHYSICAL PROPERTIES							ATTERBERG LIMITS			SOIL CLASSIFICATION	ENGINEERING PROPERTIES				
	(m.)		Wn (%)	γ (t/m ³)	% Passing					LL (%)	PL (%)	PI (%)		UCS (tsm.)	Qur (tsm.)	Qp (tsm.)	N (blows/ft)	Vs (tsm.)
	FROM	TO			#4	#10	#40	#100	#200									
SS-1	1.50	1.95	17.80		87.85	72.36	25.87	7.44	3.31		NP		SP				5	
SS-2	3.00	3.45	30.33		85.22	67.29	24.91	5.12	2.50		NP		SP				16	
ST-1	4.50	5.00				NO RECOVERY												
ST-2	6.00	6.50	75.93	1.62	100.00	100.00	99.88	99.46	99.17	67.20	29.90	37.30	CH	1.87				
ST-3	7.50	8.00	64.85	1.70	100.00	100.00	99.76	98.45	98.02	59.80	27.20	32.60	CH	2.12				
ST-4	9.00	9.50				NO RECOVERY												
ST-5	10.50	11.00	48.86	1.65	100.00	97.63	87.30	40.33	33.77	20.38	14.85	5.53	SC-SM	3.37				
ST-6	12.00	12.50				NO RECOVERY												
ST-7	13.50	14.00	50.94	1.73	100.00	100.00	99.47	98.23	96.33	39.31	25.81	13.51	CL	3.41				
ST-8	15.00	15.50	37.56	1.83	100.00	99.30	93.18	50.62	32.95	25.62	20.92	4.69	SC-SM	3.60				
SS-3	16.50	16.95	30.40		100.00	100.00	99.62	97.15	93.80	47.00	25.25	21.75	CL				14	
SS-4	18.00	18.45	31.50		100.00	100.00	99.12	86.29	65.79	46.04	24.90	21.14	CL				23	
SS-5	19.50	19.95				NO RECOVERY											29	
SS-6	21.00	21.45	29.92		100.00	98.34	96.45	76.80	41.20	36.49	23.01	13.49	SC				27	
SS-7	22.50	22.95	34.64		100.00	98.55	94.22	75.23	27.19	22.21	17.08	5.13	SC-SM				22	
SS-8	24.00	24.45	40.13		100.00	97.97	95.60	66.00	30.08	35.99	19.78	16.21	SC				14	
SS-9	25.50	25.95	23.68		100.00	96.24	85.43	9.49	4.08		NP		SP				75	
SS-10	27.00	27.45	16.43		100.00	94.42	79.76	23.04	12.51		NP		SM				92/5"	
SS-11	28.50	28.95	16.41		100.00	97.70	28.42	8.64	3.73		NP		SP				45	
SS-12	30.00	30.45	14.52		100.00	96.51	33.57	12.41	4.74		NP		SP				41	

PHYSICAL PROPERTIES

Wn = Natural Water Content

γ = Bulk Unit Weight

ATTERBERG LIMITS

LL = Liquid Limit

PL = Plastic Limit

PI = Plasticity Index

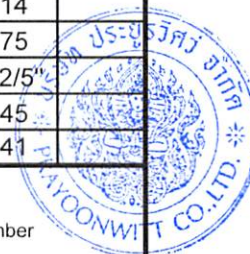
ENGINEERING PROPERTIES

UCS = Unconfined Compressive Strength N = Standard Penetration Number

Qur = Remolded Shear Strength

Vs = Vane Shear Strength

Qp = Pocket Penetrometer



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SUMMARY OF TEST RESULT

Project : ก่อสร้างถนน กาญจนภิเษก-พุทธมณฑล สาย2

Date of Boring : 14 พฤศจิกายน 2561

Location : พทชมนทล สาย2 เขตทวี่พัฒนา กรงเทพมหานคร

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[illegible]

PHYSICAL PROPERTIES

W_n = Natural Water Content

 γ = Bulk Unit Weight

ATTERBERG LIMITS

LL = Liquid Limit

PL = Plastic Limit

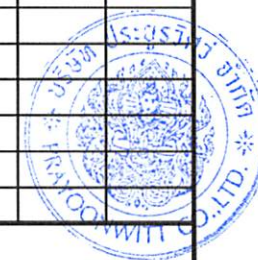
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LOG OF BORING

Project : ก่อสร้างถนน กาญจนภิเษก-พุทธมณฑล สาย2

Boring No. BH - 7

Tested by N.Winit

Page 1

Location : พุทธมณฑล สาย2 เขตทวีวัฒนา กรุงเทพมหานคร

Started 14 พฤศจิกายน 2561

Checked by W.Jakrabhan

N 1,520,627 E 650,876

Finished 15 พฤศจิกายน 2561

GWL. -1.00 m

Depth (m)	Sample No.	Type Of Sample	Sample Distance	Recovery	Soil Description	Graphic Log	o Water Content (%) x Plastic Limit (%) + Liquid Limit (%)					◇ SPT - N (Blows/ft)			Soil Shear Strength o UCS □ FVT x PP △ TV (t/m ²)			Total Density (t/m ³) ▲			
							20	40	60	80	100	25	50	75	3	6	9	1.4	1.8	2.2	
1		WO			Loose to Medium Dense Poorly-graded SAND, brown (SP)																
2	1	SS										◇ 5									
3		WO																			
4	2	SS										◇ 16									
5	1	ST		No Recovery	Very Soft CLAY, grey (CH)																
6		WO																			
7	2	ST					x										o			▲	
8	3	ST					x										o			▲	
9		WO			Loose Clayey Silty SAND, grey (SC-SM)																
10	4	ST		No Recovery																	
11	5	ST					x+										o			▲	
12		WO																			
13	6	ST		No Recovery	Soft Silty CLAY, grey (CL)																
14	7	ST					x +										o			▲	
15		WO																			
16	8	ST					x+										o			▲	
17	3	SS			Loose Clayey Silty SAND, brown (SC-SM)																
18		WO					x o +														
19	4	SS					x o +														
20	5	SS		No Recovery													◇ 29				
21		WO			Stiff to Very Stiff Sandy CLAY, brown (CL)																
22	6	SS					x o +										◇ 27				
23		WO																			
24	7	SS					x+										◇ 22				
25	8	SS			Medium Dense Clayey SAND, brown (SC) and Clayey Silty SAND (SC-SM) @SS-7		x									◇ 14					
26		WO																			
27	9	SS															◇ 75				
28	10	SS				Dense to Very Dense Poorly- graded Silty SAND, brown (SP), (SM), (SP-SM)											92/5"◇				
29		WO																			
30	11	SS															◇ 45				
31		WO																			
32	12	SS														◇ 41					





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LOG OF BORING

Project : ก่อสร้างถนน กาญจนภิเษก-พุทธมณฑล สาย2 Boring No. BH - 7 Tested by N.Winit Page 2
 Location : พุทธมณฑล สาย2 เขตทวีวัฒนา กรุงเทพมหานคร Started 14 พฤศจิกายน 2561 Checked by W.Jakrabhan
 N 1,520,627 E 650,876 Finished 15 พฤศจิกายน 2561 GWL. -1.00 m

Depth (m)	Sample No.	Type Of Sample	Sample Distance	Recovery	Soil Description	Graphic Log	o	Water Content (%)	◇	SPT - N	Soil Shear Strength			Total Density							
							x	Plastic Limit (%)		(Blows/ft)	o	UCS	□	FVT	(t/m ³)						
							+	Liquid Limit (%)			x	PP	△	TV	▲						
							20	40	60	80	100	25	50	75	3	6	9	1.4	1.8	2.2	
31	12	SS			(Same as Above) Dense to Very Dense Poorly-graded Silty SAND, brown (SP), (SM), (SP-SM)					◇	41										
32		WO																			
33	13	SS											◇	70							
34		WO																			
35	14	SS											◇	78							
36		WO																			
37	15	SS											◇	73							
38		WO																			
39	16	SS											◇	55							
40		WO																			
41	17	SS										◇	57								
42		WO																			
43	18	SS																			
44		WO										◇	68								
45	19	SS										◇	73								
46					END OF BORING (40.95) m																
47																					
48																					
49																					
50																					
51																					
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