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Table 2.1-1 Co-ordinates of Bench Marks for Topographic Survey

Pointe Id.	Easting	Northing	MSL Height	Remarks
CB-11	337812.508	1176532.855	6.640	
CB-20	341341.277	1182292.327	3.346	
CB-21	341405.936	1182557.109	3.102	
CB-22	341405.512	1183102.181	3.442	
CB-23	341538.451	1183221.407	20.223	
CB-24	341291.716	1183220.930	2.320	
CB-25	346353.658	1185379.873	18.428	
CB-26	350827.338	1185144.836	3.272	
CB-27	350795.057	1185075.592	2.455	

Table 2.1-2 List of Maps

Drawing No	Tittle	Final Scale	Remarks
CB-24-1	Topographic map	1:1000	Sheet 1 of 3
CB-24-2	Topographic map	1:1000	Sheet 2 of 3
CB-24-3	Topographic map	1:1000	Sheet 3 of 3
CB-25	Cross Sections Between Boreholes	1:4,000	
CB-25-1	Cross Sections A-A TO D-D	H 1:1000, V 1 : 100	
CB-26-1	Topographic map	1:500	Sheet 1 of 5
CB-26-2	Topographic map	1:500	Sheet 2 of 5
CB-26-3	Topographic map	1:500	Sheet 3 of 5
CB-26-4	Topographic map	1:500	Sheet 4 of 5
CB-26-5	Topographic map	1:500	Sheet 5 of 5

Table 2.2-1 SUMMARY OF BORING WORK (On Land)

Item	Bored Hole No.	Co-ordinate		Ground Level (msl)	Number of UD-Sampling	Number of SPT	Soil Coring (m.)	Rock Coring (m)	Total Depth of Bored Hole (m.)	Field Permeability Test (K=cm./sec)
		N	E							
1	BH-1	1,183,153.494	341,499.028	6.184	1	7	4.35	5.28	9.63	2.5801×10^{-5}
2	BH-2	1,182,986.778	341,808.742	9.707	1	11	6.10	7.15	13.25	7.568×10^{-5}
3	BH-3	1,182,790.193	341,722.651	5.357	1	42	21.80	7.90	29.70	4.525×10^{-4}
4	BH-4	1,182,545.165	341,458.967	3.975	1	48	25.00	4.15	29.15	1.265×10^{-4}
5	BH-5	1,182,518.468	341,958.522	3.013	1	36	18.80	4.75	23.55	3.316×10^{-5}
6	BH-7	1,183,143.399	341,691.580	11.007	-	19	10.27	10.03	20.30	1.595×10^{-3}
7	BH-9	1,182,777.155	341,973.588	8.123	-	19	10.25	9.30	19.55	No Test
TOTAL					5	182	96.57	48.56	145.13	

Table 2.2-2 Summary of Ground Resistivity Survey Points

Item	U.T.M.		Elevation (msl)	Name
	Easting	Northing		
1	341,385.195	1,182,556.022	1.518	G-1/1
2	341,416.154	1,182,551.020	1.615	G-1/2
3	341,468.929	1,182,544.293	2.912	G-2
4	341,603.080	1,182,552.929	4.343	G-3
5	341,691.978	1,182,575.193	4.797	G-4
6	341,779.109	1,182,582.652	4.766	G-5
7	342,113.070	1,182,559.879	4.235	G-7
8	341,394.857	1,182,657.960	1.950	G-8
9	341,477.645	1,182,643.912	3.807	G-9
10	341,593.98	1,182,649.771	3.599	G-10
11	341,733.817	1,182,640.385	5.137	G-11
12	341,880.061	1,182,653.553	4.551	G-13
13	342,080.058	1,182,617.267	4.516	G-14
14	341,399.804	1,182,747.487	1.606	G-15
15	341,520.926	1,182,751.114	2.350	G-16
16	341,619.932	1,182,737.867	3.457	G-17
17	341,719.910	1,182,739.644	5.425	G-18
18	341,919.257	1,182,783.216	7.467	G-20
19	342,093.131	1,182,766.696	10.252	G-21
20	341,409.162	1,182,865.374	1.705	G-22
21	341,526.807	1,182,850.781	2.202	G-23
22	341,640.926	1,182,846.452	4.269	G-24
23	341,721.375	1,182,843.029	5.553	G-25
24	341,822.398	1,182,851.516	7.683	G-26
25	341,923.719	1,182,839.924	10.371	G-27
26	342,017.355	1,182,814.652	11.324	G-28
27	341,464.163	1,182,949.223	2.883	G-29
28	341,535.721	1,182,953.011	5.034	G-31
29	341,730.324	1,182,953.259	7.458	G-32
30	341,904.360	1,182,907.730	12.859	G-34
31	341,502.965	1,183,019.996	2.915	G-37
32	341,629.800	1,183,095.529	7.698	G-38
33	341,665.699	1,183,096.840	8.908	G-39
34	341,836.138	1,183,006.520	11.778	G-40
35	341,933.435	1,182,983.508	17.951	G-41
36	342,028.727	1,182,944.499	20.554	G-42
37	341,573.639	1,183,147.958	7.184	G-44
38	341,641.829	1,183,144.752	9.315	G-45
39	341,688.155	1,183,141.292	10.946	G-46/2
40	341,793.273	1,183,085.841	12.290	G-47

Table 2.2-3 (1) Summary of Physical Properties Test Results of Borehole No. BH-1 - BH-3

Borehole No.	Sample No.	Depth (m)		Water Content (%)	Total Unit Weight (ton/m ³)	Liquid Limit (%)	Plasticity Index (%)	Specific Gravity G _s	Grain Size (%)						Undrained Shear Strength (kN/m ²)			Modulus @ 50% cu (kN/m ²)	SPT N Value	Colour	USCS	Soil Description
		From	To						Gravel	Coarse Sand	Medium Sand	Fine Sand	Silt	Clay	PP	UC						
BH-1	SS-3	2.00	2.45	20.5	2.11	50.4	15.2	2.70	3	3	4	44	46				11	Dark Yellowish Brown	SC	Clayey SAND		
BH-1	UD-1	1.00	2.00	21.3	2.05	NP	NP	2.67	0	1	2	56	21	20	0.4				SM	Silty SAND		
BH-1	SS-6	3.50	3.95	31.3	2.05	41.2	21.0	2.69	0	0	1	35	31	33			15	Dark Yellowish Brown	CL	Sandy CLAY		
BH-1	C-4	7.35	8.75	1.1	2.33										944	203,624		Rock	Sandstone			
BH-2	SS-2	1.50	1.95	15.1		NP	NP	2.64	0	0	4	64	32				7	Light Brown	SM	Silty SAND		
BH-2	UD-1	2.50	3.50	17.7	2.12	NP	NP	2.63	0	0	3	63	22	11	0.3				SM	Silty SAND		
BH-2	SS-5	3.00	3.45	16.7		NP	NP	2.75	0	0	3	64	33				9	Grayish Pink	SM	Silty SAND		
BH-2	SS-10	5.50	5.75	21.5		NP	NP	2.72	1	2	2	72	23				>50	Pale Brown	SM	Silty SAND		
BH-2	C-5	10.65	11.95	0.1	2.27										1,724	215,487		Rock	Sandstone			
BH-3	SS-3	2.00	2.45	26.3		NP	NP	2.57	0	0	0	90	9				26	Dark Reddish Brown	SP-SM	Poorly graded SAND with silt		
BH-3	SS-8	3.50	3.95	25.9		NP	NP	2.50	11	0	5	73	10				25	Blackish Red	SP-SM	Poorly graded SAND with silt		
BH-3	SS-10	5.50	5.95	16.6		*	*	2.62	0	1	3	57	39				12	Pale Yellowish Brown	SC	Clayey SAND		
BH-3	UD-1	5.00	6.00	25.8	1.89	NP	NP	2.69	0	0	6	70	21	2	0.4				SM	Silty SAND		
BH-3	SS-13	7.00	7.45	16.0		NP	NP	2.61	0	0	7	64	29				26	Yellowish Gray	SM	Silty SAND		
BH-3	SS-20	10.50	10.95	19.1		NP	NP	2.64	0	0	7	68	25				23	Yellowish Gray	SM	Silty SAND		
BH-3	SS-25	13.00	13.45	19.8	2.03	26.5	11.6	2.68	0	1	5	53	41				10	Medium Light Gray	SC	Clayey SAND		
BH-3	SS-27	14.00	14.45	18.7		NP	NP	2.68	0	0	10	71	19				17	Pale Brown	SM	Silty SAND		
BH-3	SS-29	15.00	15.45	18.9		NP	NP	2.69	26	25	11	18	20				>50	Pale Brown	SM	Silty SAND with gravel (Latent)		
BH-3	SS-35	18.00	18.45	8.2		NP	NP	*	42	11	1	11	34				> 50	Dark Yellowish Brown	GM	Silty GRAVEL with sand (Latent)		
BH-3	SS-41	21.00	21.45	16.6		*	*	2.65	1	0	1	55	42				>50	Grayish Orange Pink	SC	Clayey SAND		
BH-3	C-6	28.20	29.70	0.3	2.29										1,249	274,143		Rock	Sandstone			

Table 2.2.3 (2) Summary of Physical Properties Test Results of Borehole No. BH-4 - BH-7

Borehole No.	Sample No.	Depth (m)		Water Content (%)	Total Unit Weight (ton/m ³)	Liquid Limit (%)	Plasticity Index (%)	Specific Gravity G _s	Grain Size (%)					Undrained Shear Strength, (kPa)		Modulus @ 50% c _u (ton/m ²)	SPT N Value	Colour	USCS	Soil Description
		From	To						Gravel	Sand			Silt	Clay	pp	uc				
BH-4	SS-4	2.50	2.95	25.9		NP	NP	2.69	0	0	3	90	7				14	Grayish Brown	SP-SM	Poorly graded SAND with silt
BH-4	SS-8	4.50	4.95	23.9		*	*	2.67	0	0	1	49	50				7	Grayish Brown	-	Sandy CLAY
BH-4	SS-12	6.50	6.95	23.9		NP	NP	2.68	0	0	4	89	7				23	Yellowish Gray	SP-SM	Poorly graded SAND with silt
BH-4	SS-16	8.50	8.95	18.9		35.3	20.1	2.70	0	0	4	59	37				8	Light Olive Gray	SC	Clayey SAND
BH-4	UD-1	8.00	9.00	19.6	2.08	28.3	13.3	2.63	0	0	1	26	32	41	1.2			Pale Yellowish Brown	CL	Silty CLAY with sand
BH-4	SS-24	12.50	12.95	16.7		NP	NP	2.69	0	0	6	70	24				7	Dark Gray	SM	Silty SAND
BH-4	SS-34	17.50	17.95	18.3		NP	NP	2.66	0	1	14	64	22				>50	Medium Gray	SM	Silty SAND
BH-4	SS-39	20.00	20.45	17.9		*	*	2.71	0	0	1	48	53				7	Yellowish Gray	-	Sandy CLAY
BH-4	SS-46	23.50	23.95	21.1		NP	NP	2.62	0	0	3	75	22				>50	Medium Gray	SM	Silty SAND
BH-4	C-2	25.25	26.15	1.7	2.17											171	12,705		Rock	Siltstone
BH-5	SS-5	3.00	3.45	13.6		NP	NP	2.63	0	0	67	27	6				15	Grayish Brown	SP-SM	Poorly graded SAND with silt
BH-5	UD-1	6.00	7.00	15.1	2.10	NP	NP	2.62	0	0	3	60	24	12				Yellowish Gray	SM	Silty SAND
BH-5	SS-13	7.00	7.45	16.0	1.90	30.0	17.7	2.59	0	1	4	41	53				7	Medium Light Gray	CL	Sandy CLAY
BH-5	SS-15	8.00	8.45	19.6		NP	NP	2.60	0	0	7	80	12				8	Grayish Pink	SM	Silty SAND
BH-5	SS-24	12.50	12.95	20.7		NP	NP	2.64	0	0	19	66	14				18	Yellowish Gray	SM	Silty SAND
BH-5	SS-35	18.00	18.45	20.0		NP	NP	2.62	15	2	14	56	13				>50	Grayish Brown	SM	Silty SAND with gravel
BH-5	C-3	20.00	20.45	1.3	2.40											1,664	253,060		Rock	Sandstone
BH-7	SS-2	1.50	1.95	13.2		NP	NP	2.75	1	0	7	59	20	12			3	Grayish Brown	SM	Silty SAND
BH-7	SS-7	4.00	4.45	15.5		NP	NP	2.69	0	0	11	60	22	7			10	Yellowish Gray	SM	Silty SAND
BH-7	SS-9	5.00	5.45	15.6		NP	NP	2.72	2	1	9	24	45	19			24	Pale Yellowish Orange	M	Sandy SILT
BH-7	SS-10	5.50	5.95	16.6		NP	NP	2.68	0	0	11	76	9	3			29	Pale Yellowish Orange	SP-SM	Poorly graded SAND with silt
BH-7	SS-13	7.00	7.45	19.1		25.7	12.3	2.69	0	2	17	49	32				7	Moderate Olive Brown	SC	Clayey SAND
BH-7	SS-16	8.50	8.95	22.1		63.8	36.1	2.69	36	5	4	23	15	16			9	Grayish Brown	GC	Clayey GRAVEL with sand
BH-7	SS-18	9.50	9.95	30.2	2.04	*	*	2.65	8	0	2	18	28	45			11	Light Gray	-	Silty CLAY with sand
BH-7	C-4	14.25	15.55	0.3	2.38											1,683	319,480		Rock	Sandstone

Table 2.2-3 (3) Summary of Physical Properties Test Results of Borehole No. BH9

Borehole No.	Sample No.	Depth (m)		Water Content (%)	Total Unit Weight (ton/m ³)	Liquid Limit (%)	Plasticity Index (%)	Specific Gravity G _s	Grain Size (%)					Undrained Shear Strength (kN/m ²)			Modulus @ 50% cu (ton/m ²)	SPT N Value	Colour	USCS	Soil Description
		From	To						Gravel	Sand			Clay	pp	qc	UC					
BH-9	SS-2	1.50	1.95	18.2		NP	NP	2.68	0	0	6	75	18					10	Pale Yellowish Brown	SM	Silty SAND
BH-9	SS-4	2.50	2.95	19.8		NP	NP	2.69	0	0	6	67	27					10	Pale Yellowish Brown	SM	Silty SAND
BH-9	SS-6	3.50	3.95	24.5	2.03	37.2	23.4	2.68	0	0	3	49	48					5	Yellowish Gray	SC	Clayey SAND
BH-9	SS-10	5.50	5.95	27.0	2.02	48.0	25.2	2.69	0	0	4	46	18					4	Yellowish Gray	CL	Sandy CLAY
BH-9	SS-14	7.50	7.95	21.7		50	26.4	2.69	18	7	9	34	16					32	Dark Reddish Brown	SC	Clayey SAND with gravel
BH-9	SS-18	8.50	8.95	22.8		NP	NP	2.70	28	2	6	40	23					30	Grayish Red	SM	Silty SAND with gravel
BH-9	C-8	17.85	18.55	0.3	2.34											1,772	200,230			Rock	Sandstone

Table 2.2-4 Summary of Isotropically Consolidated Drained Triaxial Test Results

Borehole No.	Sample No.	Depth (m)		Effective Confining Stress, σ'_c (ton/m ²)	Initial		Undrained Shear Strength, c_u (ton/m ²)	Undrained Modulus @50%, E_{50} (ton/m ²)	c' (ton/m ²)	ϕ' (degree)	Colour	USCS	Soil Description
		From	To		Water Content (%)	Total Unit Weight (ton/m ³)							
BH-1	UD-1	1.00	2.00	2.5	19.9	1.99	4.4	572	0.4	34.8	Grayish Brown	SM	Silty SAND
				5.0	18.9	2.02	7.1	785					
				10.0	17.9	2.06	14.2	1101					
BH-2	UD-1	2.50	3.50	1.0	16.4	2.08	1.9	495	0.1	39.0	Grayish Brown	SM	Silty SAND
				2.0	16.6	2.12	3.4	437					
				4.0	15.6	2.12	7.5	1157					
BH-3	UD-1	5.00	6.00	3.0	54.0	1.64	3.5	136	0.0	34.7	Brownish Gray	SM	Silty SAND
				6.0	34.6	1.82	8.4	400					
				12.0	29.9	1.92	15.6	1000					
BH-4	UD-1	8.00	9.00	4.0	22.5	2.03	6.2	1207	1.5	28.1	Pale Yellowish Brown	CL	Silty CLAY with sand
				8.0	21.1	2.07	8.9	977					
				16.0	19.9	2.10	17.4	746					
BH-5	UD-1	6.00	7.00	3.5	17.7	2.13	4.7	514	2.3	19.8	Yellowish Gray	SM	Silty SAND
				7.5	19.8	2.04	7.9	611					
				15.0	24.8	1.99	10.7	689					

Table 2.2-5 Summary of Unconfined Compression Test on Rock Sample

Borehole No.	Sample No.	Depth (m)		Water Content (%)	Bulk Density (ton/m ³)	Bulk Specific Gravity, Gs	Effective Porosity (%)	Undrained Shear Strength, c_u (ton/m ²)	Unconfined Compressive Strength, q_u (ton/m ²)	Undrained Modulus @ 50% c_u (ton/m ²)	Strain at Failure, ϵ_f (%)	Rock Description
		From	To									
BH-1	C-4	8.20	8.75	1.1	2.33	2.65	14.24	944	1,887	253,624	0.8	Sandstone
BH-2	C-5	10.65	10.90	0.1	2.27	2.64	7.54	1,724	3,448	315,487	1.1	Sandstone
BH-3	C-6	29.40	29.70	0.3	2.29	2.68	12.03	1,249	2,498	274,143	0.9	Sandstone
BH-4	C-2	25.45	25.75	1.7	2.17	2.66	-	171	341	12,786	3.0	Siltstone
BH-5	C-3	20.00	20.26	1.3	2.40	2.66	10.21	1,664	3,327	253,080	1.2	Siltstone
BH-7	C-4	15.25	15.40	0.3	2.38	2.65	4.94	1,683	3,366	319,480	1.1	Sandstone
BH-9	C-8	18.28	18.50	0.3	2.34	2.66	6.09	1,772	3,543	200,230	1.4	Sandstone

**Table 2.2-6 Resistivity, ohm - m, of Overburden and Sandstone
Basement Obtained from Eight Selected Stations**

Station Depth m	G - 2	G - 11	G - 18	G - 20	G - 22	G - 40	G - 46	G - 47
1	2500	500	500	1300	500	1200	2500	1000
5	200	800	800	1200	600	1500	1800	1200
10	100	700	500	1100	300	1500	900	1100
20	100	600	500	1000	100	1500	700	800
30	100	400	400	800	100	1200	200	800
40	100	300	300	800	100	1200	800	800
50	150	300	300	700	100	1100	900	800

Interpretation:

1. Overburden, Sand and Silty Clay

1.1 Fresh water, resistivity = 400 - 2500 ohm - m

1.2 Brackish - salty water, resistivity = 100 - 200 ohm - m

2. Sandstone basement

2.1 Brackish - salty water sandstone, resistivity = 100 - 150 ohm - m

2.2 Wet - fresh water sandstone, resistivity = 300 - 900 ohm - m

2.3 Outcrops hard sandstone, resistivity = 700 - 1500 ohm - m

3.  —Contact of Overburden / sandstone


4.  —Interface of fresh water above brakish water (?)

Table 2.2-7 Summarize Description of Borehole Corings, Power Plant Site

Item	Borehole Number	Elevation,m	Core	Overburden		
		Landsurface	Overburden	Thickness	Color	Graine Size
		Sandstone	Sandstone			
1	BH - 7	<u>11.00</u> + 0.70	<u>Sand/Clay/Sand</u> SS	10.30	Orange Brown	f - m
2	BH - 2	<u>9.70</u> + 3.60	<u>Sand/Clay/Sand</u> SS	6.10	Gray Yellow	vf - f
3	BH - 9	<u>8.12</u> - 2.20	<u>Sand/Clay/Sand</u> SS	10.25	Gray Brown	vf - m
4	BH - 1	<u>6.18</u> 0.00	<u>Clay</u> SS	4.35	Yellow Brown	-
5	BH - 3	<u>5.35</u> - 16.50	<u>Sand</u> SS	21.80	Brown	f - m - c
6	BH - 4	<u>3.98</u> - 21.75	<u>Sand/Clay</u> SS	25.75	Yellow Gray	vf - m
7	BH - 5	<u>3.00</u> - 15.80	<u>Sand/Clay/Sand</u> SS	18.80	Gray Brown	f - c
8	BH - 11	<u>- 2.00</u> - 6.80	<u>Sand</u> SS	4.75	Gray	vf - f
9	BH - 10	<u>- 5.00</u> - 3.00	<u>Sand/Clay</u> Slst,SS	13.05	Gray Brown	vf - c
10	BH - 12	<u>- 3.00</u> - 11.30	<u>Sand</u> SS, mudstone	8.30	Gray Brown	f - m
11	BH - 13	<u>- 5.00</u> - 14.50	<u>Sand</u> SS	9.50	Gray	f - m

Remark:

vf = very fine

f = fine

m = medium

SS = Sandstone

Slst = Siltstone