

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW - 8b**

PROJECT: Pasig-Marikina River Channel Imp. Proj.
 LOCATION: Ugong Norte, Pasig City
 PROJECT NO: BMRW-8 DATE DRILLED: 12 - 13 February 2001
 GROUND ELEV. (MLLW = Zero Datum) + 9.418
 STATION NO.: 3 + 450
 WEATHER: FAIR
 DEPTH OF WATER: 2.00 m.
 DATE MEASURED: 12 Feb. 2001
 TIME MEASURED: 1:00 PM
 COORDINATES: 1612884.750 N, 508730.515 E

SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
						15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN W, %	4	10	40	200
1 SS-18	89		CH		Sandy CLAY; brown; 77% high plasticity clay; 18% fine sand and 4% medium sand; HARD.	8	12	26	10	20	30	40	50	43	54	28	2.61			100	99	95	77	
2 SS-19	89					Silty CLAY; brown; 94% high plasticity clay; contains 6% fine to medium sand; HARD.	10	10	24															
3 SS-20	89						12	13	21															
4 SS-21	89		SC		Clayey SAND; brown; contains little amount of gravel and coarse sand; 34% medium plastic clayey fines; 34% medium sand; 21% fine sand; DENSE.	11	12	19						44	68	39	2.60			100	98	94		
5 SS-22	89					END OF BOREHOLE (25.00 m)	13	14	30						23	45	25	2.63			95	89	55	34
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BASIC TECHNOLOGY AND MANAGEMENT CORPORATION
 2nd Floor Prudential Bank Building,
 1377 A. Mabini St., Ermita, Manila

MACHINE: ACKER ACE
 DRILLER: J. MADERA
 SUPERVISOR: M. VILLAFUERTE

LEGEND:
 SS - SPLIT SPOON SAMPLE
 WS - WASH SAMPLE
 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 W/ HYDROMETER ANALYSIS

図5-3-3 (171/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW-9**

PROJECT: Pasig-Marikina River Channel Imp. Proj.
 LOCATION: Rosario Bridge, Pasig City
 NO: BMRW-9 DATE DRILLED: 10 - 11 March 2001
 GROUND ELEV. (MLLW = Zero Datum) + 10.287
 STATION NO.: 4 + 250
 WEATHER: FAIR
 COORDINATES: 1613647.100 N, 508768.500 E
 DEPTH OF WATER: 3.60 m.
 DATE MEASURED: 10 Mar. 2001
 TIME MEASURED: 9:00 AM

SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
						15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN W, %	4	10	40	200
SS-1	89		CH		Sandy CLAY; 18% gravel; 12% coarse sand, with traces of medium and fine sand; 58% high plasticity clay; VERY SOFT.	1	1	0	10	20	30	40	50	56	56	34	2.62			82	70	65	58	
SS-2	44		GM		Silty Sandy GRAVEL; gray; 31% coarse to fine sand; 55% sub-rounded to angular gravel; 14% non-plastic silt; LOOSE.	4	2	7						23			2.65			45	31	19	14	
SS-3	89		SM		Gravelly Silty SAND; dark gray; 27% non-plastic silt; 10% gravel; 12% coarse sand; 23% medium sand; 28% fine sand; LOOSE.	3	3	5						34			2.64			90	78	55	27	
SS-4	89				Silty Gravelly SAND; dark gray; 20% sub-rounded gravel; 18% non-plastic silt; 15% coarse sand; 29% medium sand; 18% fine sand; MEDIUM DENSE.	4	3	5									2.64			80	65	36	18	
SS-5	89				Silty SAND; dark gray to gray; 34% non-plastic silt with little amount of sub-rounded gravel; contains some coarse and medium sand; 50% fine sand; LOOSE to MEDIUM DENSE.	3	4	4							29			2.63			95	92	84	34
SS-6	89				Silty SAND; dark gray to gray; 34% non-plastic silt with little amount of sub-rounded gravel; contains some coarse and medium sand; 50% fine sand; LOOSE to MEDIUM DENSE.	5	10	11										2.63			95	92	84	34
SS-7	89		CH		Sandy CLAY; yellowish gray; 10% coarse sand; 16% medium sand; 14% fine sand; traces of sub-angular gravel; 53% high plasticity clay. VERY STIFF.	21	14	7						68	68	38	2.62			93	83	67	53	
9	CR-1	52	SS	11	SILTSTONE; light gray; slightly weathered; broken; HARD	CORING								20					75.136	3.834				
10	CR-2	67		67		CORING								16					59.515	2.688				
11	CR-3	67		54		CORING								12					81.227	2.677				
12	CR-4	30	Tf	15		SILTY TUFF; slight gray; moderate highly weathered; generally broken; HARD.	CORING								18					79.093	2.765			
13	CR-5	35		11	SILTSTONE; gray; completely weathered, generally broken; VERY SOFT	CORING																		
14	CR-6	29	SS	0		SILTSTONE; brownish gray; VERY SOFT.	CORING																	
15	CR-7	55	SC	0	Clayey SAND; brown; 27% high plastic clay with little amount of coarse sand; 19% medium sand; 52% fine sand; VERY DENSE.	CORING								44	63	40	2.63			100	98	79	27	
16	CR-8	48		0		CORING																		
17	CR-9	44	ST	0	SANDSTONE; brownish gray; highly to moderately weathered; generally broken; SOFT.	CORING								16					40.715	1.641				
18					END OF BOREHOLE (17.00 m)	CORING																		

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 SUPERVISOR: M. VILLAFUERTE

LEGEND:

 SS - SPLIT SPOON SAMPLE
 WS - WASH SAMPLE
 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 W/ - HYDROMETER ANALYSIS

図5-3-3 (172/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW - 10**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **Ugong, Pasig City**
 BOREHOLE NO: **BMRW-10** DATE DRILLED: **08 - 09 March 2001**

GROUND ELEV. (MLLW = Zero Datum) **+ 8.887**
 STATION NO.: **4 + 500**
 WEATHER: **FAIR**
 COORDINATES: **1613894.250 N, 508721.100 E**
 DEPTH OF WATER: **1.80** m.
 DATE MEASURED: **08 Mar. 2001**
 TIME MEASURED: **11:00 AM**

SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT) (N-VALUE)	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE				
						15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %, %	4	10	40	200	
SS-1	89	[Symbol]	CH		Silty CLAY; 94% high plasticity silty clay with traces of fine sand. VERY SOFT.	1	0	0		75	68	44	2.60								
SS-2	89	[Symbol]	CH		Sandy CLAY; brownish gray; 30% fine sand; 69% high plasticity clay; SOFT.	1	0	0													
SS-3	89	[Symbol]	GP		Sandy GRAVEL; dark gray; sub-angular gravel; fine to coarse sand; presence of weathered silty tuff; VERY DENSE	1	2	2		40	59	38	2.61			100	99	69*			
SS-4	100	[Symbol]	GP			6	50			20			2.65		64	49	30	11			
CR-1	70	[Symbol]	Tf	35		CORING				25	1.77			167.639	4.818						
CR-2	79	[Symbol]	Tf	58	Fine TUFF; gray; well cemented; fresh to slightly weathered; broken; HARD.	CORING				30	1.74			173.173	4.875						
CR-3	93	[Symbol]	Tf	77		CORING				24	1.67			165.846	5.376						
CR-4	71	[Symbol]	Tf	53		CORING				17	1.72			144.281	3.236						
CR-5	87	[Symbol]	Tf	36	Fine TUFF; gray to yellowish brown; moderately to highly weathered; broken; HARD.	CORING				26	1.74			157.867	4.396						
CR-6	44	[Symbol]	LT	0		CORING				20	1.74			26.965	1.524						
CR-7	43	[Symbol]	LT	0		CORING															
CR-8	60	[Symbol]	LT	0	Lapilli TUFF; brownish gray; moderately to highly weathered, broken; HARD.	CORING															
CR-9	66	[Symbol]	LT	0		CORING															
CR-10	59	[Symbol]	LT	0		CORING															
CR-11	80	[Symbol]	LT	0		CORING															
CR-12	35	[Symbol]	LT	0		CORING															
CR-13	42	[Symbol]	LT	0	Lapilli TUFF; dark gray; moderately weathered; broken, HARD.	CORING															
CR-14	53	[Symbol]	LT	0		CORING															
					END OF BOREHOLE (18.00 m)																

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 SUPERVISOR: M. VILLAFUERTE

LEGEND:
 [Symbol] SS - SPLIT SPOON SAMPLE
 [Symbol] WS - WASH SAMPLE
 [Symbol] UDS - UNDISTURBED SAMPLE
 [Symbol] CR - CORE SAMPLE
 [Symbol] * W/ HYDROMETER ANALYSIS

図5-3-3 (173/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRW - 11

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Ugong, Pasig City
NO: BMRW-11 DATE DRILLED: 06 - 07 March 2001

GROUND ELEV. (MLLW = Zero Datum) + 11.455
STATION NO.: 5 + 000
WEATHER: FAIR
COORDINATES: 1614402.100 N, 508701.100 E

DEPTH OF WATER: 1.50 m.
DATE MEASURED: 06 Mar. 2001
TIME MEASURED: 9:00 AM

Table with columns: SAMPLE NO., RECOVERY (%), LOG SYMBOL, CLASSIFICATION, RQD, DESCRIPTION, BLOWS (SPT) (15 cm, 15 cm, 15 cm), STANDARD PENETRATION TEST (SPT) (N-VALUE), NATURAL MOIST. CONTENT, %; TOTAL UNIT WEIGHT, g/cc; ATTERBERG LIMITS (LIQUID LIMIT, %; PLASTICITY INDEX, %); SPECIFIC GRAVITY; UNCONFINED COMP. TEST (STRENGTH kg/cm²; STRAIN %); SIEVE ANALYSIS (% PASSING SIEVE) (4, 10, 40, 200).

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WI / HYDROMETER ANALYSIS

図5-3-3 (174/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW-12**

PROJECT: Pasig-Marikina River Channel Imp. Proj.
 LOCATION: Green Meadows, Ugong, Pasig City
 BOREHOLE NO.: BMRW-12 DATE DRILLED: 03 - 05 March 2001
 GROUND ELEV. (MLLW = Zero Datum) + 10.450
 STATION NO.: 5 + 500
 WEATHER: FAIR
 DEPTH OF WATER: 2.90 m.
 DATE MEASURED: 03 Mar. 2001
 TIME MEASURED: 10:00 AM
 COORDINATES: 1614901.250 N, 508721.100 E

SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
						15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200
SS-1	78		GM		Silty Sandy GRAVEL; gray to grayish brown; 44% sub-angular gravel; 37% coarse to fine sand. MEDIUM DENSE.	10	7	6						57				2.64			56	38	27	19
SS-2	100		GP		Sandy GRAVEL; grayish brown; 94% sub-angular gravel; little amount of sand and non-plastic silt; VERY DENSE.	5	8	9						27				2.66			6	4	3	2
SS-3	100																							
CR-1	75			23																				
CR-2	61			36										18	1.73					138.830	5.338			
CR-3	30			0																				
CR-4	30			0																				
CR-5	32		LT	0	Lapilli TUFF; grayish brown; moderately to highly weathered; broken; HARD.																			
CR-6	35			0																				
CR-7	23			23										14	1.87					43.385	2.083			
CR-8	39			0																				
CR-9	35			0																				
CR-10	63		MS	50	MUDSTONE; brown; slightly weathered; broken; SOFT.																			
CR-11	50			0																				
CR-12	30		ST	0	SANDSTONE; light gray; highly weathered; broken; HARD.																			
CR-13	34			30										14	1.80					22.624	1.096			
					END OF BOREHOLE (15.00 m)																			

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LEGEND:

 SS - SPLIT SPOON SAMPLE
 WS - WASH SAMPLE
 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 W/ - HYDROMETER ANALYSIS

図5-3-3 (175/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRW - 13

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Right Side Offshore, Manggahan, Pasig
BORING NO.: BMRW-13 **DATE DRILLED:** 01 February 2001

GROUND ELEV. (MLLW = Zero Datum) + 10.884
STATION NO.: 6 + 000
WEATHER: FAIR

DEPTH OF WATER: 2.20 m.
DATE MEASURED: 01 Feb. 2001
TIME MEASURED: 9:00 AM

COORDINATES: 1614994.250 N, 509144.100 E

SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
						15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN W, %	4	10	40	200
1	SS-1	67	SM		Silty SAND ; gray; 64% fine sand; 36% non-plastic silt; LOOSE.	2	4	6						35				2.63			100	36		
2	SS-2	67				4	4	6							35				2.63		100	99	98	19
3	SS-3	67				2	5	6							21				2.63		95	89	50	18
4	SS-4	89	CH		Sandy CLAY ; brownish gray; 76-89% high plasticity silty clay with some gravel; 10-15% fine to coarse sand; STIFF.	6	6	6						35	64	40	2.60			99	97	95	89	
5	SS-5	100				9	6	9							38	57	36	2.61			91	86	81	76
5	CR-1	100	LT	10	Lapilli TUFF ; light gray to brown; appreciable amount of lapilli moderately weathered, broken; Moderately HARD.	CORING																		
6	CR-2	75		56		CORING								26	1.74				62.160	1.890				
7	CR-3	91		55		CORING								25	1.66				33.394	3.147				
8	CR-4	68		59		CORING								25	1.71				22.550	1.780				
9	CR-5	93		80		CORING								26	1.62				64.750	1.560				
10	CR-6	92		53		CORING								21	1.14				68.863	3.141				
11	CR-7	96		20		CORING								30	1.66				88.236	2.70				
12	CR-8	92		30		CORING								35	1.55				91.460	2.793				
13	CR-9	94		40		CORING								31	1.38				69.080	2.121				
14	CR-10	100		45		CORING								35	1.50				73.796	2.121				
15	CR-11	100		14		CORING								33	1.61				84.434	2.753				
16	CR-12	41		0		CORING																		
					End of Borehole (16.00 m)																			



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LEGEND:
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 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 * W/HYDROMETER ANALYSIS

図5-3-3 (176/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW - 14**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **Right Side Offshore, Manggahan, Pasig**
 BOREHOLE NO: **BMRW-14** DATE DRILLED: **27 - 29 January 2001**

GROUND ELEV. (MLLW = Zero Datum) **+ 9.105**
 STATION NO.: **6 + 400**
 WEATHER: **FAIR**

DEPTH OF WATER: **1.50** m.
 DATE MEASURED: **27 Jan. 2001**
 TIME MEASURED: **1:00 PM**

COORDINATES: **1614705.100** N, **509395.500** E

SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS			SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE				
						15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %	STRENGTH kg/cm ²		STRAIN W. %	4	10	40	200		
1	SS-1	89	SP	SM		Silty SAND; brown to grayish brown; 24% medium sand; 65% fine sand with 6% non-plastic silt; contains very little amount of gravel; VERY LOOSE.	1	0	1	10	20	30	40	50	27				2.63			97	95	71	6	
2	SS-2	89					3	1	1																	
3	SS-3	89		CL		Silty CLAY; gray; 88-98% medium plasticity silty clay; 2-6% coarse to fine sand and equal amount of gravel; FIRM.	2	3	2						40	45	22	2.61				94	93	91	88*	
4	SS-4	89					3	2	3																	
5	SS-5	89		SM		Silty SAND; gray; 34% non-plastic silt; 41% medium sand; 22% fine sand w/ little amount of coarse sand. LOOSE.	2	1	3						45	50	25	2.60					100	99	98*	
6	SS-6	89					2	2	3						33			2.63				100	97	56	34	
7	SS-7	89				Sandy CLAY; gray; 9% medium sand; 5% fine sand with little amount of coarse sand; 84% high plasticity clay. SOFT to FIRM.	2	2	2						85	58	32	2.60				100	98	89	84*	
8	SS-8	62					3	3	7																	
9	SS-9	89				Gravelly CLAY; gray; 12% sub-rounded gravel w/ traces of fine sand and little amount of coarse to med. sand. STIFF.	3	5	10						37	67	44	2.61				88	85	82	75	
10	SS-10	100					4	6	8																	
11	SS-11	89		CH		Sandy Silty CLAY; light gray to grayish; 86% high plasticity silty clay; 7% sand with equal amount of gravel; STIFF to VERY STIFF.	5	8	8																	
12	SS-12	100					9	9	11						32	67	39	2.60				93	90	87	86	
13	SS-13	67					7	9	12																	
14	SS-14	89					6	11	13																	
15	SS-15	89				Sandy Silty CLAY; grayish brown to brownish gray; 90% high plasticity silty clay; 10% fine to medium sand; VERY STIFF to HARD.	11	13	18																	
16	SS-16	89					8	11	15						43	83	52	2.61				100	98	9		
17	SS-17	100					50	15																		
18	SS-18	100		SM		Silty SAND; grayish brown to brown; 20% non-plastic silt; 21% coarse sand; 32% medium sand, 19% fine sand with traces of gravel. VERY DENSE.	45	50	9																	
19	SS-19	100					50	10							17			2.64				92	71	39		
20	SS-20	100				End of Borehole (19.81 m)	26	50	15																	



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LEGEND:

 SS - SPLIT SPOON SAMPLE
 WS - WASH SAMPLE
 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 * W/HYDROMETER ANALYSIS

図5-3-3 (177/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW - 15a**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **Libis, Quezon City, Right Side Offshore**
 BOREHOLE NO: **BMRW-15** DATE DRILLED: **24 - 25 January 2001**
 GROUND ELEV. (MLLW = Zero Datum) **+ 9.655**
 STATION NO.: **8 + 500**
 WEATHER: **FAIR**
 COORDINATES: **1616126.500 N, 508409.950 E**
 DEPTH OF WATER: **2.40** m.
 DATE MEASURED: **24 Jan. 2001**
 TIME MEASURED: **1:00 PM**

SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
						15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200
SS-1	78		CH		Sandy Silty CLAY; light gray; 17% fine to medium sand; 83% high plasticity clay; SOFT	3	2	1						44	56	35	2.61			100	99	94	83*	
SS-2	89		CL		Silty CLAY; brown; 9% fine to coarse sand; 91% low to medium plasticity clay; VERY STIFF.	8	9	11						37	46	23	2.60			100	99	98	91*	
SS-3	89				Sandy CLAY; brown; 33% fine sand; 64% low to medium plasticity clay; HARD.	7	12	21						25	49	28	2.61			100	99	97	64*	
SS-4	89		CH		Sandy CLAY; brown; 5-9% fine sand; about 88-94% high plasticity clay; HARD.	13	17	22						32	53	31	2.60			100	99	97	88*	
SS-5	89				Sandy CLAY; dark gray; about 8% sand; 92% high plasticity clay; STIFF.	8	11	12						45	60	40	2.60			100	99	94*		
SS-6	89					5	6	9						58	58	36	2.60			100	98	92*		
SS-7	100		ML		Gravelly Sandy SILT; gray, 11% gravel; 41% well graded sand; 48% slightly plastic silt; HARD.	15	12	38/9																
SS-8	100					50								46			2.64			89	75	62	48	
CR-1	100			36		CORING																		
SS-9	NR					50																		
CR-2	49		Tf	37	Sandy TUFF; gray; moderately to highly weathered; broken; SOFT.	CORING								18	1.49				49.701	1.579				
CR-3	43			69		CORING								18	1.41				21.377	1.287				
SS-10	NR					50																		
CR-4	81			69		CORING								34	1.45				34.312	1.571				
CR-5	72			70	Tuffaceous SANDSTONE; brown to very light brown; contains pumiceous materials; highly weathered; broken; SOFT.	CORING								20	1.47				38.668	1.579				
CR-6	100			96		CORING								20	1.43				22.388	1.046				
CR-7	60			56		CORING								25	1.51				31.991	1.500				
CR-8	33		ST	33		CORING																		
CR-9	44			44		CORING								23	1.55				6.357	2.439				
CR-10	50			38	Tuffaceous SANDSTONE; dark gray; contains pumiceous materials; slightly weathered; broken; Moderately HARD.	CORING																		
CR-11	61			56		CORING																		
CR-12	30			26		CORING																		

BASIC TECHNOLOGY AND MANAGEMENT CORPORATION
 2nd Floor Prudential Bank Building,
 1377 A. Mabini St., Ermita, Manila

MACHINE: **ACKER ACE**
 DRILLER: **E. RIEZA**
 M. ESTAURA
 SUPERVISOR: **M. VILLAFUERTE**

LEGEND:

 SS - SPLIT SPOON SAMPLE
 WS - WASH SAMPLE
 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 * W/ HYDROMETER ANALYSIS

図5-3-3 (178/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW-15b**

PROJECT: Pasig-Marikina River Channel Imp. Proj.
 LOCATION: R. Side Offshore, Libis, Quezon City
 BOREHOLE NO: BMRW-15 DATE DRILLED: 24 - 25 January 2001

GROUND ELEV.
 (MLLW = Zero Datum) + 9.655
 STATION NO.: 8 + 500
 WEATHER: FAIR

DEPTH OF WATER: 2.40 m.
 DATE MEASURED: 24 Jan. 2001
 TIME MEASURED: 1:00 PM

COORDINATES: 1616126.500 N, 508409.950 E

DEPTH (m)	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE																	
							15 cm	15 cm	15 cm	(N-VALUE) 10 20 30 40 50							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %, %	4	10	40	200														
21	CR-13	78		ST	59	Tuffaceous SANDSTONE; brown.	CORING																																
21						End of Borehole (20.50 m)																																	
22																																							
23																																							
24																																							
25																																							
26																																							
27																																							
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 1377 A. Mabini St., Ermita, Manila

MACHINE: ACKER ACE
 DRILLER: E. RIEZA
 SUPERVISOR: M. ESTAURA

LEGEND:
 SS - SPLIT SPOON SAMPLE
 WS - WASH SAMPLE
 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 W/ HYDRMETER ANALYSIS
 *

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRW-16a

PROJECT: Pasig-Marikina River Channel Imp. Proj.
 LOCATION: Right Side Offshore, Libis, Quezon City
 NO: BMRW-16 DATE DRILLED: 22 - 23 January 2001

GROUND ELEV. (MLLW = Zero Datum) + 11.531
 STATION NO.: 9 + 000
 WEATHER: FAIR

DEPTH OF WATER: 1.55 m.
 DATE MEASURED: 23 Jan. 2001
 TIME MEASURED: 8:00 AM

COORDINATES: 1616623.500 N, 508305.100 E

SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT) (N-VALUE)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE						
						15 cm	15 cm	15 cm	10	20	30	40	50			LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN W, %	4	10	40	200			
SS-1	89		CH		Sandy Silty CLAY; grayish brown; 17% fine sand; 82% high plasticity organic clay; FIRM.	2	3	2						35	51	31	2.61							100	99	82*	
SS-2	89		CH			2	2	3																			
SS-3	89		CH		Sandy Silty CLAY; brownish gray to gray; 11% fine to medium sand; 88% high plasticity clay; STIFF.	2	5	7						23	55	35	2.60							100	99	97	88*
SS-4	89		CH			3	3	6																			
SS-5	89		CL		Sandy Silty CLAY; brownish gray to gray; poorly graded, 39% fine sand; 59% low to medium plasticity clay; STIFF.	3	5	7																			
SS-6	89		CL			5	6	9						29	42	22	2.61							100	98	59*	
SS-7	89		SM		Silty SAND; brown; 11% medium sand; 68% fine sand; 20% non-plastic silty fines; MEDIUM DENSE.	7	10	12																			
SS-8	89		SM			10	12	14						25			2.63						100	99	88	20	
SS-9	56		SM		Silty SAND; brownish gray to gray; 8% medium sand; 61% fine sand; 29% non-plastic silty fines; VERY DENSE.	13	21	33						26			2.63						98	98	90	29	
SS-10	89		SM		Silty SAND, brownish gray to gray; poorly graded; non-plastic silty fines; DENSE	17	16	15																			
SS-11	89		CH			10	15	18																			
SS-12	89		CH		Silty CLAY; brown; contains very little amount of fine sand; 98% high plasticity clay; HARD to VERY STIFF.	17	16	15						41	75	52	2.60							100	98*		
SS-13	89		CH			10	14	15																			
SS-14	89		CH			10	13	15																			
SS-15	89		CH		Silty CLAY; brownish gray to gray; 7% fine sand; 91% medium to high plasticity clay; VERY STIFF to HARD.	9	12	16						34	57	29	2.60							100	99	98	91*
SS-16	89		CH			10	19	19																			
SS-17	89		CH			13	21	31																			
SS-18	89		CH			5	6	7						59	57	31	2.60						100	99	95	93*	
SS-19	89		CH		Silty CLAY; gray; 6% medium to fine sand; 93% high plasticity, organic clay; STIFF to VERY STIFF.	8	8	9																			
SS-20	89		CH			5	7	8																			

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MACHINE: ACKER ACE
 DRILLER: J. MADERA / I. LUENGAS
 SUPERVISOR: M. ESTAURA / M. VILLAFUERTE

LEGEND:
 SS - SPLIT SPOON SAMPLE
 WS - WASH SAMPLE
 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 W/ HYDROMETER ANALYSIS

図5-3-3 (180/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRW - 16b

PROJECT: Pasig-Marikina River Channel Imp. Proj.
 LOCATION: Right Side Offshore, Libis, Quezon City
 NO: BMRW-16 DATE DRILLED: 22 - 23 January 2001

GROUND ELEV. (MLLW = Zero Datum) + 11.531
 STATION NO.: 9 + 000
 WEATHER: FAIR
 COORDINATES: 1616623.500 N, 508305.100 E
 DEPTH OF WATER: 1.55 m.
 DATE MEASURED: 23 Jan. 2001
 TIME MEASURED: 4:00 PM

SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
						15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200
SS-21	89		CH		Silty CLAY; brown; 98-99% high plasticity clay; VERY STIFF.	7	10	11						39	71	42	2.60				100	99	98*	
SS-22	89					8	10	12																
SS-23	89					6	6	9																
SS-24	89					7	12	12								35	73	51	2.60				100	99*
SS-25	89					9	11	14																
SS-26	89					11	13	17																
SS-27	89		SM		Sandy CLAY; gray; 18% fine sand; 81% high plasticity clay; HARD To VERY STIFF.	10	10	18						31	51	29	2.61				100	99	81*	
SS-28	78					13	17	19																
SS-29	78					15	19	21																
SS-30	56			8	28	22	5							26			2.63				100	77	42*	
					End of Borehole (29.90 m)																			

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 SUPERVISOR: M. ESTAURA
 M. VILLAFUERTE

LEGEND:
 SS - SPLIT SPOON SAMPLE
 WS - WASH SAMPLE
 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 W/ HYDROMETER ANALYSIS

図5-3-3 (181/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRW - 16b

PROJECT: Pasig-Marikina River Channel Imp. Proj. LOCATION: Right Side Offshore, Libis, Quezon City NO: BMRW-16 DATE DRILLED: 22 - 23 January 2001	GROUND ELEV. (MLLW = Zero Datum) + 11.531 STATION NO.: 9 + 000 WEATHER: FAIR	DEPTH OF WATER: 1.55 m. DATE MEASURED: 23 Jan. 2001 TIME MEASURED: 4:00 PM COORDINATES: 1616623.500 N, 508305.100 E
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SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE					
						15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200		
1 SS-21	89				Silty CLAY ; brown; 98-99% high plasticity clay; VERY STIFF.	7	10	11					39	71	42	2.60										
2 SS-22	89					8	10	12																		
3 SS-23	89					6	6	9																		
4 SS-24	89			CH		7	12	12					35	73	51	2.60									100	99
5 SS-25	89					9	11	14																		
16 SS-26	89				Sandy CLAY ; gray; 18% fine sand; 81% high plasticity clay; HARD To VERY STIFF.	11	13	17																		
27 SS-27	89					10	10	18					31	51	29	2.61									100	99
28 SS-28	78				Sandy CLAY ; gray; contains some fine sand; high plasticity clay; HARD.	13	17	19																		
29 SS-29	78					15	19	21																		
30 SS-30	56		SM		Silty SAND ; gray; 23% medium sand and 35% fine sand; 42% non-plastic silt; VERY DENSE.	8	28	5				26			2.63									100	77	4
30 End of Borehole (29.90 m)																										

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 M. VILLAFUERTE

LEGEND:

	SS - SPLIT SPOON SAMPLE
	WS - WASH SAMPLE
	UDS - UNDISTURBED SAMPLE
	CR - CORE SAMPLE
*	W/ HYDROMETER ANALYSIS

図5-3-3 (182/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW-17**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **Right Side Offshore, Santolan, Pasig**
 HOLE NO: **BMRW-17** DATE DRILLED: **20 - 21 January 2001**
 GROUND ELEV. (MLLW = Zero Datum) **+ 10.075**
 STATION NO.: **9 + 500**
 WEATHER: **FAIR**
 DEPTH OF WATER: **1.40** m.
 DATE MEASURED: **20 Jan. 2001**
 TIME MEASURED: **8:30 AM**
 COORDINATES: **1617023.500** N, **508620.500** E

SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE		
						15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40
1	89		SM SW		Gravelly SAND; brownish gray to gray; 12-19% sub-angular to angular gravel; 19-20% coarse sand; 45-52% medium sand, 7-9% non-plastic silty fines; MEDIUM DENSE.	2	5	5						33			2.64		81	61	16	9	
2	89				Silty SAND; brownish gray to gray; 38% medium sand; 44% fine sand; 17% non-plastic; FIRM.	4	5	7						27			2.64		88	69	17	8	
3	44				Gravelly Silty SAND; brownish gray; 10% sub-rounded gravel; 13% coarse sand; 18% medium sand; 22% fine sand; 37% non-plastic, MEDIUM DENSE.	6	6	6						34			2.63		100	99	61	17	
4	44					10	11	10						41			2.63		90	77	59	37	
5	89		CH			3	4	5															
6	89				Silty CLAY; grayish brown; 7% of sand; 93% high plasticity clay; with traces of fine sand; STIFF.	5	6	8						36	67	41	2.60		100	99	98	93	
7	89					4	6	7															
8	89					5	6	8															
9	89				Sandy CLAY; grayish brown; 10% sand with very little amount of gravel; 88% high plasticity clay; VERY STIFF.	4	12	12						33	62	40	2.60		98	96	94	86	
10	89					7	9	9															
11	89					8	10	14						43	56	35	2.60		100	97	90		
12	89			CL		Sandy CLAY; light brown to brown; 11% fine sand; 10% medium to coarse sand; 78% medium plasticity clay; VERY STIFF.	9	10	18					32	50	31	2.61		99	95	89	78	
13	89						8	10	11														
14	100						9	12	13														
15	100			CH		Gravelly Sandy CLAY; brown; contains 18% sub-rounded gravel; 24% fine to coarse sand; 58% high plasticity clay; HARD.	19	19	25					35	53	30	2.61		82	78	72	5	
16	89					12	15	15															
17	89		CL		Sandy CLAY; grayish brown; 23% fine sand; 76% medium plasticity clay; VERY STIFF.	9	9	15															
18	44					8	12	13						33	49	28	2.61		100	99	7		
19	67		ML		Sandy SILT; brown; traces of fine sand; non-plastic silty fines; DENSE.	9	13	14															
20	67				End of Borehole (20.00 m)	10	13	15															

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MACHINE: **ACKER ACE**
 DRILLER: **J. MADERA**
I. LUENGAS
 SUPERVISOR: **M. ESTAURA**
M. VILLAFUERTE

LEGEND:

 SS - SPLIT SPOON SAMPLE
 WS - WASH SAMPLE
 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 W/ - HYDROMETER ANALYSIS

図5-3-3 (183/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW-18**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **R. Side Offshore, Marikina River, Santolan**
 NO: **BMRW-18** DATE DRILLED: **10 - 12 December 2000**

GROUND ELEV. (MLLW = Zero Datum) **+ 11.565**
 STATION NO.: **10 + 000**
 WEATHER: **FAIR**

DEPTH OF WATER: **1.30** m.
 DATE MEASURED: **12 Dec. 2000**
 TIME MEASURED: **10:00 AM**

COORDINATES: **1617499.750 N, 508681.100 E**

SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
						15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200
SS-1	67	[Symbol]	GM		Silty Sandy GRAVEL; brown; 17% coarse sand; 15% medium sand w/ traces of fine sand and non-plastic silt; 52% sub-rounded gravel; MEDIUM DENSE.	5	9	13	10	20	30	40	50	11				2.64		48	31	16	8	
SS-2	44	[Symbol]			Gravelly CLAY; brown; 42% sub-rounded gravel with little amount of fine sand; 53% high plasticity clay; VERY STIFF.	10	9	18																
SS-3	89	[Symbol]				5	7	9						35	65	34	2.64		58	57	56	53		
SS-4	9	[Symbol]			Sandy CLAY; brown; high plasticity silty clay with considerable amount of sand; STIFF.	4	5	7																
SS-5	89	[Symbol]				3	5	8																
SS-6	89	[Symbol]	CH		Sandy CLAY; grayish brown; 86% high plasticity silty clay with 13% coarse to fine sand; STIFF to VERY STIFF.	5	8	10						29	66	37	2.61		99	90	87	86		
SS-7	89	[Symbol]				7	9	13																
SS-8	89	[Symbol]				9	12	18																
SS-9	100	[Symbol]			Sandy CLAY; brown; 11% sub-angular gravel; 14% fine sand with appreciable amount of coarse to medium sand; 64% high plasticity clay; HARD.	22	30	10						24	51	30	2.63		89	84	78	64		
SS-10	78	[Symbol]				11	12	13																
SS-11	89	[Symbol]				9	14	18																
SS-12	67	[Symbol]	SM		Silty SAND; dark brown; 23% non-plastic silt; 18% medium sand; 58% fine sand; MEDIUM DENSE.	9	10	14						30			2.63		99	99	81	23		
SS-13	78	[Symbol]				11	9	9																
SS-14	78	[Symbol]				8	6	9																
SS-15	89	[Symbol]				3	7	9						30	54	32	2.62		100	98	73			
SS-16	90	[Symbol]				13	30	9																
SS-17	93	[Symbol]	CH		Sandy CLAY; brown to grayish brown; 25-26% fine sand; 73% high plasticity clay; VERY STIFF to HARD.	19	23	13																
SS-18	71	[Symbol]				20	24	12						28	54	31	2.61		100	99	73*			
SS-19	85	[Symbol]				20	24	11																
SS-20	54	[Symbol]			End of Borehole (19.92 m)	21	32	7																

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MACHINE: **ACKER ACE**
 DRILLER: **E. RIEZA**
 SUPERVISOR: **M. ESTAURA**

LEGEND:
 [Symbol] SS - SPLIT SPOON SAMPLE
 [Symbol] WS - WASH SAMPLE
 [Symbol] UDS - UNDISTURBED SAMPLE
 [Symbol] CR - CORE SAMPLE
 * WI - HYDROMETER ANALYSIS

図5-3-3 (184/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW-19a**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **R. Side Offshore, Pasig-Marikina River**
 PROJECT NO.: **BMRW-19** DATE DRILLED: **12 - 13 December 2000**

GROUND ELEV. (MLLW = Zero Datum) **+ 9.545**
 STATION NO.: **10 + 500**
 WEATHER: **FAIR**
 DEPTH OF WATER: **2.20** m.
 DATE MEASURED: **13 Dec. 2000**
 TIME MEASURED: **5:00 PM**
 COORDINATES: **1617992.750** N, **508820.100** E

SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
						15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %, %	4	10	40	200
S-1	44		ML		Gravelly Sandy SILT; light gray; 13% sub-angular gravel; 15% coarse sand; 14% medium sand with traces of fine sand; VERY SOFT.	1	0	1		43			2.63			87	72	58	50	
S-2	67				Silty CLAY; brown to brown gray; 97% high plasticity silty clay with little amount of sand; STIFF to VERY STIFF.	5	6	10												
S-3	100		CH			6	36	5		91	76	48	2.60			100	99	97		
S-4	78					13	11	14												
S-5	100					11	30	7												
S-6	100					50	14			31				2.63		100	97	82	39	
S-7	96		SM		Silty SAND; brown; 39% non-plastic silt; 58% fine to medium sand; contains little amount of coarse sand; VERY DENSE.	31	50	11												
S-8	71				Tuffaceous SANDSTONE; light brown; contains pumiceous materials; moderately weathered; broken; Moderately SOFT.	50	14													
CR-1	48		ST																	
SS-9	73																			
SS-10	69		SM		Silty SAND; dark brown; 19% non-plastic silt; 42% medium sand; 30% fine sand w/ traces of coarse sand; contains little amount of gravel; HARD. (11.34m)	18	28	18		36			2.64		97	91	49	19		
SS-11	67				Sandy SILT; yellowish brown; 19% coarse to medium sand; 27% fine sand; 54% non-plastic silt; HARD.	22	14													
SS-12	100		ML			24	15													
CR-2	86				Tuffaceous SANDSTONE; grayish brown; coarse-grained; moderately weathered; slightly broken; Moderately HARD.	50	8			47			2.62		100	96	81	54		
CR-2	86		TF	70	Fine TUFF; brown; moderately weathered; slightly broken; Moderately SOFT.					34	1.67			46.368	1.610					
CR-3	87			73						45	1.44			37.892	1.770					
CR-4	57			13	Tuffaceous SANDSTONE; brown; contains pumice clasts and other volcanic lithics; moderately weathered; slightly broken; SOFT.															
CR-4	57		ST							33	1.49			22.956	1.379					
CR-5	20			0																

BASIC TECHNOLOGY AND MANAGEMENT CORPORATION
 2nd Floor Prudential Bank Building,
 1377 A. Mabini St., Ermita, Manila

MACHINE: **ACKER ACE**
 DRILLER: **E. RIEZA**
 SUPERVISOR: **M. ESTAURA**

LEGEND:
 SS - SPLIT SPOON SAMPLE
 WS - WASH SAMPLE
 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 W/ - HYDROMETER ANALYSIS

図5-3-3 (185/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW-19b**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **R. Side Offshore, Pasig-Marikina River**
 HOLE NO: **BMRW-19** DATE DRILLED: **12 - 13 December 2000**

GROUND ELEV. (MLLW = Zero Datum) **+ 9.545**
 STATION NO.: **10 + 500**
 WEATHER: **FAIR**
 COORDINATES: **1617992.750 N, 508820.100 E**
 DEPTH OF WATER: **2.20** m.
 DATE MEASURED: **13 Feb. 2001**
 TIME MEASURED: **5:00 PM**

SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE															
						15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN N, %	4	10	40	200												
CR-6 23			ST	0	Tuffaceous SANDSTONE; brown. End of Borehole (20.50 m)																															

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MACHINE: ACKER ACE
 DRILLER: E. RIEZA
 SUPERVISOR: M. ESTAURA

LEGEND:
 SS - SPLIT SPOON SAMPLE
 WS - WASH SAMPLE
 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 * W/ HYDROMETER ANALYSIS

図5-3-3 (186/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW - 20**

PROJECT: Pasig-Marikina River Channel Imp. Proj.
 LOCATION: R. Side Offshore, Marikina River, Santolan
 ID: BMRW-20 DATE DRILLED: 18 - 20 December 2000

GROUND ELEV. (MLLW = Zero Datum) + 11.825
 STATION NO.: 11 + 000
 WEATHER: FAIR

DEPTH OF WATER: 2.50 m.
 DATE MEASURED: 20 Dec. 2001
 TIME MEASURED: 10:30 AM

COORDINATES: 1617849.850 N, 509219.750 E

SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT) (N-VALUE)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE				
						15 cm	15 cm	15 cm	10	20	30	40	50			LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN W. %	4	10	40	200	
SS-1	89				Silty CLAY; dark gray to light brown; 93-97% high plasticity silty clay with little amount of fine sand; FIRM to VERY STIFF.	2	3	5						36	70	49	2.60			99	99	97	93*		
SS-2	89					3	3	4																	
SS-3	89					33	11	11							46	71	43	2.60			99	99	98	93*	
SS-4	89					5	5	7																	
SS-5	89			CH		7	11	13																	
SS-6	89					9	8	9							27	72	48	2.60				100	99	97*	
SS-7	89					6	10	14																	
SS-8	89					8	13	15																	
SS-9	89					Sandy Gravelly CLAY; light brown; 10% sub-angular gravel; 83% high plasticity clay with little amount of coarse to finesand; VERY STIFF to HARD.	8	14	15							32	67	46	2.61			90	88	86	83*
SS-10	89						11	18	21																
SS-11	89				8	13	17																		
SS-12	89				Sandy CLAY; brown to dark gray; 22-37% fine sand; 57-73% medium plasticity clay with little coarse to medium sand; HARD.	9	13	21							32	49	29	2.61			100	96	94	57*	
SS-13	89			CL		9	14	18																	
SS-14	89					12	17	19																	
SS-15	100					16	18	10							28	51	23	2.61				100	95	73*	
SS-16	89				11	24	32																		
SS-17	100				Sandy SILT; brown to dark gray; 37% fine sand; 62% non-plastic silt. HARD.	18	32	5																	
SS-18	98			ML		12	24	11							27			2.61				100	99	62	
SS-19	95					15	24	12																	
SS-20	49				End of Borehole (19.96 m)	21	30	11																	

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MACHINE: ACKER ACE
 DRILLER: E. RIEZA
 SUPERVISOR: M. ESTAURA

LEGEND:

 SS - SPLIT SPOON SAMPLE
 WS - WASH SAMPLE
 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 W - HYDROMETER ANALYSIS

図5-3-3 (187/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRW-21a

PROJECT: Pasig-Marikina River Channel Imp. Proj. LOCATION: R. Side Offshore, Calumpang, Marikina BOREHOLE NO.: BMRW-21 DATE DRILLED: 22 - 26 December 2000	GROUND ELEV. (MLLW = Zero Datum) <u>+ 11.055</u> STATION NO.: <u>11 + 500</u> WEATHER: FAIR	DEPTH OF WATER: <u>1.50</u> m. DATE MEASURED: <u>25 Dec. 2000</u> TIME MEASURED: <u>12:00 NN</u> COORDINATES: <u>1617471.500</u> N, <u>509542.400</u> E
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RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE							
					15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN W, %	4	10	40	200				
								10	20	30	40	50															
67	SM	SM		Silty SAND; brownish gray; poorly graded with 67% fine sand; 32% non-plastic silt; VERY LOOSE.	4	0	0						38			2.63						100	99	32			
67	SM	SM		Silty Gravelly SAND; brownish gray; poorly graded sand; 28% angular gravel; 48% coarse to fine sand; and 24% non-plastic silt; LOOSE.	1	0	0						20			2.64						72	64	34	24		
67				Silty CLAY; grayish brown to brown; contains little amount of sand and sub-angular to sub-rounded gravel; high plasticity clay; STIFF to VERY STIFF.	3	3	3																				
78					6	5	5																				
89						7	7	12																			
89		GC			Gravelly CLAY; grayish brown to brown; with little amount of fine to coarse sand; 10% sub-rounded gravel; 84% high plasticity clay; VERY STIFF To HARD.	8	10	17						22			58	29	2.60					90	88	86	84
89				Sandy CLAY; brown; 12-26% fine to coarse sand; with traces of gravel; 72-81% high plasticity clay; VERY STIFF To HARD.	10	15	22																				
89					15	16	22																				
89					9	13	16							20			56	32	2.61					93	92	91	81
89					6	12	12																				
89					8	12	13																				
89					7	11	19																				
89							28																				
93					14	22	13																				
88		CH			10	18	14																				
100					10	14	24																				
89				14	20	22																					
89				9	17	27																					
89				6	10	17																					
89				7	11	15																					
89				8	12	14																					

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MACHINE: ACKER ACE
DRILLER: E. RIEZA
SUPERVISOR: M. ESTAURA
 M. VILLAFUERTE


LEGEND:
 SS - SPLIT SPOON SAMPLE
 WS - WASH SAMPLE
 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 W/ HYDROMETER ANALYSIS

図5-3-3 (188/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRW-21b

PROJECT: Pasig-Marikina River Channel Imp. Proj.	GROUND ELEV. (MLLW = Zero Datum) <u>+ 11.055</u>	DEPTH OF WATER: <u>1.50</u> m.
LOCATION: R. Side Offshore, Calumpang, Marikina	STATION NO.: <u>11 + 500</u>	DATE MEASURED: <u>25 Dec. 2000</u>
ID: BMRW-21	WEATHER: <u>FAIR</u>	TIME MEASURED: <u>12:00 NN</u>
DATE DRILLED: 22 - 26 December 2000	COORDINATES: <u>1617471.500</u> N, <u>509542.400</u> E	

SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT) (N-VALUE)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE																		
						15 cm	15 cm	15 cm	10	20	30	40	50			LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200															
S-21	89	■			Silty CLAY; gray; 98-99% high plasticity clay; VERY STIFF.				21					73	52	2.60																100	99						
S-22	89	■																																					
S-23	89	■																																					
S-24	89	■																																					
S-25	89	■								36					72	42	2.60																					100	99
End of Borehole (25.00 m)																																							

 <p>BASIC TECHNOLOGY AND MANAGEMENT CORPORATION 2nd Floor Prudential Bank Building, 1377 A. Mabini St., Ermita, Manila</p>	MACHINE: <u>ACKER ACE</u>	<p>LEGEND:</p> <ul style="list-style-type: none"> SS - SPLIT SPOON SAMPLE WS - WASH SAMPLE UDS - UNDISTURBED SAMPLE CR - CORE SAMPLE W/ HYDROMETER ANALYSIS
	DRILLER: <u>E. RIEZA</u>	
	SUPERVISOR: <u>M. ESTAURA</u>	
	SUPERVISOR: <u>M. VILLAFUERTE</u>	

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW - 22a**

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Side Offshore, Calumpang, Marikina
NO: BMRW-22 **DATE DRILLED:** 27 - 28 December 2000
GROUND ELEV. (MLLW = Zero Datum): + 13.056
STATION NO.: 12 + 000
WEATHER: FAIR
COORDINATES: 1617551.500 N, 509911.100 E
DEPTH OF WATER: 1.00 m.
DATE MEASURED: 28 Dec. 2000
TIME MEASURED: 12:00 NN

SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
						15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200
SS-1	78		ML		Clayey SILT; grayish brown to brown; 98% non-plastic silt; 2% sand; SOFT.	1	2	2	10	20	30	40	50	31			2.63				100	99	98	
SS-2	78				Silty CLAY; brown; high plasticity clay with 4% sand; FIRM.	2	2	2																
SS-3	78					3	3	4						30	70	39	2.60				100	99	98	96
SS-4	78				Silty CLAY; brown; high plasticity clay with 3% sand; VERY STIFF to HARD.	9	11	13																
SS-5	100					9	14	22																
SS-6	89					6	8	10						35	70	41	2.60				100	98	97	
SS-7	89					7	10	14																
SS-8	89				Sandy CLAY; brown; 17% fine sand; 83% high plasticity clay; VERY STIFF.	8	12	14																
SS-9	89					5	8	11						34	61	30	2.61					100	83	
SS-10	89					9	13	17																
SS-11	89		CH		Sandy CLAY; brown to brownish gray; 14% fine sand; high plasticity clay; HARD.	7	12	13																
SS-12	89					13	18	23						30	58	35	2.60					100	86	
SS-13	100				Silty CLAY; gray; high plasticity clay with 3% sand; VERY STIFF.	14	26	10																
SS-14	89					8	12	20																
SS-15	89					6	8	11						38	71	43	2.60				100	99	99	97
SS-16	89				Silty CLAY; gray; high plasticity clay with 3% fine sand; HARD.	7	9	16																
SS-17	89					7	9	17																
SS-18	89					8	12	22						28	73	38	2.60					100	99	97
SS-19	91					15	24	14																
SS-20	89					15	23	27																

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 M. VILLAFUERTE

LEGEND:

 SS - SPLIT SPOON SAMPLE
 WS - WASH SAMPLE
 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 W/ HYDROMETER ANALYSIS

図5-3-3 (190/221) 柱状図 (フェーズI実施分)