

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 39**

PROJECT: Pasig-Marikina River Channel Imp. Proj.	GROUND ELEV. (MLLW = Zero Datum) + 14.241	DEPTH OF WATER: 1.20 m.
LOCATION: R. Bank, Dela Peña, Marikina	STATION NO.: 12 + 950	DATE MEASURED: 18 Dec. 2000
BH NO: BMRL-39 DATE DRILLED: 15 - 18 December 2001	WEATHER: FAIR	TIME MEASURED: 5:00 PM
COORDINATES: 1618,472.500 N, 509,890.400 E		

DEPTH, m	SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	ROD	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							
							10	20	30	40	50																					
1	SS-1	89		ML		Sandy SILT; brown; 28% fine sand; 72% non-plastic silt; STIFF.	5	5	4						25			2.60									100	72				
2	SS-2	87		SM		Silty SAND; grayish brown; 16% sub-rounded gravel; 40% non-plastic silt; 30% fine sand; traces of coarse to medium sand; MEDIUM DENSE.	4	5	7																							
3	SS-3	87			SS-3			5	7	8						17			2.63				84	77	70			40				
4	SS-4	56			SS-4			27	15	7																						
5	SS-5	56			SS-5		Silty SAND; gray; 15% sub-rounded gravel; 25% coarse sand; 25% medium sand; 34% non-plastic silt; VERY LOOSE.	4	2	2																						
6	SS-6	87			SS-6			2	1	2						21			2.63				85	80	35			34				
7	SS-7	44						5	8	9																						
8	SS-8	89					Silty SAND; gray; 21% non-plastic silt; 41% medium fine sand; 26% fine sand with traces of coarse sand; little amount of gravel; MEDIUM DENSE.	6	4	8																						
9	SS-9	44						7	8	10																						
10	SS-10	56						8	7	10																						
11	SS-11	67						7	6	7																						
12	SS-12	100		CH		Sandy CLAY; gray; 10% fine sand; with little amount of medium sand; 86% high plasticity clay; FIRM TO VERY STIFF.		1	3	4																						
13	SS-13	87			SS-13		7	7	10																							
14	SS-14	56		SM		Silty SAND; gray; 19% non-plastic silt; 12% medium fine sand; 53% fine sand; traces of coarse sand and gravel; MEDIUM DENSE.	7	8	11																							
15	SS-15	89			SS-15			12	12	18						22			2.63				86	89	77			19				
16						End of Borehole (15.00 m)																										



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

MACHINE: ACKER ACE
DRILLER: R. ANDO
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 (151/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 40**

PROJECT: Pasig-Marikina River Channel Imp. Proj.	GROUND ELEV. (MLLW = Zero Datum) <u>+ 14.935</u>	DEPTH OF WATER: <u>2.20</u> m.
LOCATION: R. Bank, Dela Peña, Marikina	STATION NO.: <u>13 + 220</u>	DATE MEASURED: <u>18 Dec. 2000</u>
BH NO: BMRL-40 DATE DRILLED: 18 December 2000	WEATHER: <u>FAIR</u>	TIME MEASURED: <u>5:00 PM</u>
COORDINATES: 1618,738.100 N, 509,821.250 E		

DEPTH, m	SAMPLE NO.	RECOVERY (%)	SAMPLE	LOG SYMBOL	CLASSIFICATION	ROD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL LIMIT WEIGHT, g/100	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						
								10	20	30	40	50																				
1	SS-1	44			ML		Sandy SILT; brown; 38% fine sand; 62% non-plastic silt; FIRM.	2	2	3						17			2.81								100	62				
2	SS-2	56			CH		Sandy CLAY; gray to grayish brown; 20% fine sand; 79% high plasticity clay; SOFT.	2	2	2																						
3	SS-3	67						2	1	1								45	60	42	2.81							100	99	79*		
4	SS-4	44			ML		Sandy SILT; gray; 24% fine sand; 76% non-plastic silt; FIRM TO STIFF.	2	2	2																						
5	SS-5	78						3	2	2																						
6	SS-6	44						5	5	5								39			2.80								100	78		
7	SS-7	56			CH		Silty CLAY; dark gray; 97% high plasticity silty clay; with little amount of fine sand; SOFT TO STIFF.	4	4	5																						
8	SS-8	67						2	2	2																						
9	SS-9	67						3	2	2								121	70	47	2.60								100	97*		
10	SS-10	78						5	4	5																						
11	SS-11	78			CH		Sandy CLAY; gray; 20% medium sand; 22% fine sand; traces of coarse sand and gravel; 52% high plasticity clay; FIRM TO VERY STIFF.	6	3	5																						
12	SS-12	33						9	10	8								29	75	56	2.60							92	84	64	52*	
13	SS-13	22						10	10	11																						
14	SS-14	33			SW		Gravelly SAND; gray; 26% sub-rounded gravel; 19% coarse sand; 27% medium sand; 10% fine sand; 18% non-plastic silt; VERY STIFF TO HARD.	9	15	13																						
15	SS-15	33						9	15	18								13			2.84							74	55	28	18	
16	SS-16	44						17	18	22																						
17							End of Borehole (16.00 m)																									
18																																
19																																
20																																



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MACHINE: ACKER ACE
DRILLER: I. ANDOYO
SUPERVISOR: M. ESTAURA

LEGEND:

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

図5-3-3 (152/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 41**

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Manila Bay Side, Mkna Youth Camp
BH NO: BMRL-41 **DATE DRILLED:** 19 - 20 December 2000

GROUND ELEV. (M.L.L.W = Zero Datum) + 17.131
STATION NO.: 13 + 550
WEATHER: FAIR

DEPTH OF WATER: 3.00 m.
DATE MEASURED: 20 Dec. 2000
TIME MEASURED: 5:00 PM

COORDINATES: 1619,066.750 N, 509,721.500 E

DEPTH, m	SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	ROD	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-1	67	[Symbol]	CH		Sandy CLAY; brown; 20-28% fine sand; 68-80% high plasticity clay; SOFT.	1	2	2	10	20	30	40	50	32	55	32	2.61			98	97	96	66*	
2	SS-2	78	[Symbol]				2	2	2																
3	SS-3	67	[Symbol]				2	1	1							34	63	42	2.61					100	80*
4	SS-4	71	[Symbol]	SM		Silty SAND; brown; 35% medium sand; 31% fine sand; traces of gravel and coarse sand; MEDIUM DENSE.	1	1	2																
5	SS-5	44	[Symbol]				6	3	7																
6	SS-6	62	[Symbol]				7	7	7							20			2.63			91	83	48	17
7	SS-7	56	[Symbol]				7	7	9																
8	SS-8	56	[Symbol]				5	7	6																
9	SS-9	18	[Symbol]	SW		Silty SAND; gray; 21% non-plastic silt; 30% medium sand and 48% fine sand; MEDIUM DENSE To DENSE.	8	11	15						23			2.63			99	89	89	21	
10	SS-10	44	[Symbol]				10	13	17																
11	SS-11	44	[Symbol]				13	20	25																
12	SS-12	33	[Symbol]				10	10	11							13			2.63			86	62	20	7
13	SS-13	56	[Symbol]	SW		Gravelly SAND; gray; 7-16% non-plastic silt; 12-23% sub-rounded gravel; 21-26% coarse sand; 24-42% medium fine sand; 13-16% fine sand; MEDIUM DENSE TO DENSE.	11	9	10																
14	SS-14	56	[Symbol]				10	15	15																
15	SS-15	44	[Symbol]				9	15	16							9			2.63			77	56	32	16
16						End of Borehole (15.00 m)																			

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SUPERVISOR: M. ESTAURA

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 (153/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 42**

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Youth Camp, Marikina
BH NO: BMRL-42 **DATE DRILLED:** 21 - 23 December 2000

GROUND ELEV. (MLLW = Zero Datum) + 14.301
STATION NO.: 13 + 850
WEATHER: FAIR
COORDINATES: 1619,328.200 N, 509,632.500 E

DEPTH OF WATER: 4.00 m.
DATE MEASURED: 22 Dec. 2000
TIME MEASURED: 5:00 PM

DEPTH, m	SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	ROD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL LIMIT WEIGHT, g/100	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-1	67	[Symbol]	CH		Sandy CLAY; brown; 11-43% fine sand; 55-81% high plasticity clay; with little amount of medium fine sand; SOFT TO FIRM.	1	1	1	10	20	30	40	50	31			2.62						100	98	55
2	SS-2	78	[Symbol]				2	1	1																	
3	SS-3	78	[Symbol]				1	0	1							36	57	35	2.61				100	99	98	80
4	SS-4	67	[Symbol]				1	1	1																	
5	SS-5	78	[Symbol]				1	1	2																	
6	SS-6	71	[Symbol]	SM		Silty SAND; gray; 44% non-plastic silt; 16% coarse sand; 40% fine sand; LOOSE.	12	3	4						41	62	42	2.61				99	96	92	81	
7	SS-7	89	[Symbol]				3	3	4																	
8	SS-8	67	[Symbol]				3	2	4																	
9	SS-9	78	[Symbol]				2	2	2							28			2.63				100	84	84	44
10	SS-10	82	[Symbol]				3	3	2																	
11	SS-11	44	[Symbol]	GM		Silty SAND; gray; 26% non-plastic silt; 12% sub-angular gravel; 13% coarse sand; 31% medium sand; 18% fine sand; MEDIUM DENSE TO DENSE.	7	9	8																	
12	SS-12	33	[Symbol]				8	8	8							18			2.63				88	75	44	28
13	SS-13	33	[Symbol]				15	16	16																	
14	SS-14	27	[Symbol]				14	16	16																	
15	SS-15	40	[Symbol]				19	20	20							10			2.65				49	36	14	3
16	SS-16	44	[Symbol]	21	20	22																				
17	SS-17	67	[Symbol]	21	30	35																				
18						End of Borehole (17.00 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 (154/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 43**

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Sto. Niño, Marikina
BH NO: BMRL-43 **DATE DRILLED:** 05 - 06 January 2001
GROUND ELEV. (MLLW = Zero Datum): + 12.933
STATION NO.: 14 + 115
WEATHER: FAIR
DEPTH OF WATER: 1.50 m.
DATE MEASURED: 06 Jan. 2001
TIME MEASURED: 3:00 PM
COORDINATES: 1619,595.500 N, 509,580.750 E

DEPTH, m	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-1	100		CH		Sandy CLAY; brown to grayish brown; high plasticity; 39% fine sand; STIFF.	4	4	6						39	57	33	2.81				100	99	80		
2	SS-2	100		SM		Silty SAND; brown; 30% fine sand; 19% medium sand; 6% rounded to sub-rounded lithic gravels; medium to high plasticity; moderately graded; MEDIUM DENSE TO VERY DENSE.	4	12	12																	
3	SS-3	100			4		13	28								31	54	28	2.83				94	88	69	39
4	SS-4	73			19		28	11																		
5	CR-1	25		ST		Tuffaceous SANDSTONE; cream; very fine grained; broken; HARD.	CORING																			
8	CR-2	30					CORING																			
7	SS-5	75		SC		Clayey Silty SAND; light brown to brown; well graded sand component; low to non-plasticity; with few sub-angular gravel particles; VERY DENSE.	18	22	28/10																	
8	SS-6	77			20		25	25/9								38	54	27	2.62				96	86	69	49
9	SS-7	75			20		28	24/10																		
10	CR-3	30		ST	0	Tuffaceous SANDSTONE; grayish cream; medium to very coarse grained; generally broken; HARD.	CORING																			
11	SS-8	75		SC		Clayey Silty SAND; light brown well graded; low to non-plasticity; VERY DENSE.	18	22	28/10																	
12	CR-4	25			0		CORING																			
13	CR-5	55		ST	0	Tuffaceous SANDSTONE; grayish cream; highly weathered; medium to very coarse grained; layered; poorly sorted; generally broken; HARD.	CORING																			
14	CR-6	38			17		CORING								18	1.45					48.65	1.397				
15	CR-7	41			15		CORING								25	1.58					81.28	2.81				
16	CR-8	53			0		CORING																			
17						End of Borehole (16.00 m)																				



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MACHINE: ACKER ACE
DRILLER: J. MOGOL
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 (155/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 44**

PROJECT: Pasig-Marikina River Channel Imp. Proj.	GROUND ELEV. (MLLW = Zero Datum) + 13.574	DEPTH OF WATER: 1.00 m.
LOCATION: R. Bank, Sto. Niño, Marikina	STATION NO.: 14 + 420	DATE MEASURED: 12 Jan. 2001
BH NO: BMRL-44 DATE DRILLED: 09 - 11 January 2001	WEATHER: FAIR	TIME MEASURED: 7:00 AM
COORDINATES: 1619,888.750 N, 509,461.100 E		

DEPTH, m	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-1	100	[Symbol]	CH		Sandy CLAY; brown to grayish brown; 12% sub-angular gravel; 10% fine sand; with little amount of coarse to medium sand; 71% high plasticity clay; STIFF TO VERY STIFF.	3	5	7	10	20	30	40	50	28	55	27	2.61	88	86	81	71			
2	SS-2	100	[Symbol]		8	6	9	28	52	28	2.64	77	66	56	49										
3	SS-3	100	[Symbol]		11	9	14	26	58	31	2.61	85	91	81	60										
4	SS-4	89	[Symbol]		10	10	11	22	56	31	2.63	87	78	81	43										
5	SS-5	100	[Symbol]		18	10	15	20	28	8															
6	SS-6	100	[Symbol]		9	7	9	19	25	10															
7	SS-7	89	[Symbol]		7	12	18	20	30	10															
8	SS-8	100	[Symbol]		10	18	20	22	29	12															
9	SS-9	100	[Symbol]		15	24	10	20	30	10															
10	SS-10	52	[Symbol]		20	28	8	22	35	5															
11	SS-11	100	[Symbol]		19	25	10	20	30	10															
12	SS-12	82	[Symbol]	SM		Silty SAND; brown to grayish brown; 23% sub-rounded to sub-angular gravel; 17% coarse sand; 20% medium sand and 14% fine sand; 26% non-plastic silt; VERY DENSE.	20	30	10	39		2.64	77	60	40	28									
13	SS-13	36	[Symbol]		22	29	12																		
14	SS-14	50	[Symbol]	QW		GRAVEL; brownish gray to gray; sub-angular gravel with little amount of coarse to fine sand with non-plastic silt; VERY DENSE.	20	30	10	27		2.65	19	13	9	7									
15	SS-15	57	[Symbol]		22	35	5																		
16						End of Borehole (14.90 m)																			

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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 (156/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 45**

PROJECT: Pasig-Marikina River Channel Imp. Proj.
 LOCATION: R. Bank, Sto. Niño, Marikina
 BH NO: BMRL-45 DATE DRILLED: 11 - 12 January 2001

GROUND ELEV. (MLLW = Zero Datum) + 14.942
 STATION NO.: 14 + 650
 WEATHER: FAIR

DEPTH OF WATER: 2.50 m.
 DATE MEASURED: 12 Jan. 2001
 TIME MEASURED: 5:30 PM

COORDINATES: 1620,258.750 N, 509,485.250 E

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	ROD	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-1	100		SM		Silty SAND; brown; 26% non-plastic silt; 17% angular gravel; 11% coarse sand; 37% fine sand; traces of medium sand; LOOSE	2	2	3							22			2.64			83	72	63	26				
2	SS-2	100		SW		Gravelly SAND; brown; 20% non-plastic silt; 37% angular gravel; 16% coarse sand; 19% fine sand; traces of medium sand; MEDIUM DENSE	5	10	5							16			2.65			83	47	39	20				
3	SS-3	100		CH		Silty CLAY; brown to brownish gray; 96-99% high plasticity silty clay; SOFT TO FIRM.	2	2	2							46	87	36	2.60			100	99	98	96*				
4	SS-4	100					4	3	4									43	71	49	2.60			99	99	98	97*		
5	SS-5	100					3	4	3																				
6	SS-6	100					2	3	4										45	73	51	2.60						100	99*
7	SS-7	100					3	3	3																				
8	SS-8	100					3	4	4										48	61	31	2.61			100	99	95	75*	
9	SS-9	100		CH		Sandy CLAY; gray; 4-10% medium sand; 8-20% fine sand; little amount of coarse sand; 75% high plasticity clay; FIRM TO VERY STIFF.	6	7	9							36	57	27	2.61			98	83	83	75*				
10	SS-10	100					7	8	8																				
11	SS-11	100					8	10	10																				
12	SS-12	75		SW		Gravelly SAND; gray; 43% angular to sub-rounded gravel; 15% coarse sand; 20% medium sand; 10% fine sand; 12% non-plastic silt; VERY DENSE.	10	25	10							22			2.65			57	42	22	12				
13	SS-13	50		CH		Sandy CLAY; brown; 11% sub-angular to sub-rounded gravel; 29% fine sand; 57% high plasticity clay; HARD.	15	22	10																				
14	SS-14	62					18	23	10																				
15	SS-15	49					20	26	11										28	45	25	2.61			88	87	86	57*	
16						End of Borehole (14.96 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 (157/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW-1a**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **Napindan Floodgate, Bagong Ilog, Pasig**
 BOREHOLE NO.: **BMRW-1** DATE DRILLED: **13 - 17 March 2001**
 GROUND ELEV. (MLLW = Zero Datum) **+ 10.975**
 STATION NO.: **00 + 150**
 WEATHER: **FAIR**
 COORDINATES: **1610184.750 N, 507158.500 E**
 DEPTH OF WATER: **1.22** m.
 DATE MEASURED: **13 Mar. 2001**
 TIME MEASURED: **7:00 AM**

DEPTH (m)	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 W, %	4	10	40	200
1	SS-1	89	[Symbol]	CH		Sandy CLAY; dark gray; 26% fine sand; 72% high plasticity clay; VERY SOFT.	1	0	0	10	20	30	40	50	37	62	40	2.61					100	98	72
2	SS-2	100	[Symbol]	SP		Fine To Medium SAND; dark gray; 10% coarse sand; 35% medium sand; 52% fine sand; VERY LOOSE.	1	1	1																
3	SS-3	78	[Symbol]	SP			1	0	1						38			2.63				99	89	54	2
4	SS-4	78	[Symbol]	SC		Clayey SAND; gray; 40% high plasticity clay; 54% fine sand with little amount of coarse to medium sand. VERY LOOSE.	1	1	1																
5	SS-5	89	[Symbol]	SP		SAND; gray; 13% medium sand; 76% fine sand with little amount of coarse sand and gravel, LOOSE.	1	2	2						44	56	35	2.63				100	98	94	40
6	SS-6	78	[Symbol]	SP			2	3	5						28			2.63				95	90	77	1
7	SS-7	78	[Symbol]	SW		Gravelly SAND; brownish gray; 70% well-graded sand w/ little amount of non-plastic silt; 25% gravel; MEDIUM DENSE.	5	14	14						33			2.64				75	54	30	5
8	SS-8	78	[Symbol]				10	10	12						22			2.63				96	83	49	1
9	SS-9	78	[Symbol]				5	8	8																
10	SS-10	78	[Symbol]				11	13	18																
11	SS-11	56	[Symbol]				11	12	13						12			2.63				95	73	21	1
12	SS-12	56	[Symbol]			Medium to coarse SAND; gray to brownish gray; 12-30% coarse sand; 34-52% medium sand; 20-48% fine sand; with little amount of gravel and non plastic silt. MEDIUM DENSE to DENSE.	11	11	10																
13	SS-13	78	[Symbol]				7	9	9																
14	SS-14	89	[Symbol]	SP			6	6	7						21			2.63				97	85	46	5
15	SS-15	67	[Symbol]				8	9	9																
16	SS-16	56	[Symbol]				8	8	10																
17	SS-17	56	[Symbol]				5	5	7						16			2.63				95	65	26	5
18	SS-18	78	[Symbol]				6	6	8																
19	SS-19	67	[Symbol]				6	9	10																
20	SS-20	67	[Symbol]	SW		Gravelly SAND; grayish brown to brown; 26% angular to sub angular gravel; 73% well-graded sand; MEDIUM DENSE.	8	11	11						23			2.64				74	55	22	1

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

MACHINE: ACKER ACE
 DRILLER: A. TENERIFE
 SUPERVISOR: M. VILLAFUERTE

LEGEND:

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

図5-3-3 (158/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW-1b**

PROJECT: Pasig-Marikina River Channel Imp. Proj.
 LOCATION: Napindan Floodgate, Bagong Ilog, Pasig
 NO: BMRW-1 DATE DRILLED: 13 - 17 March 2001

GROUND ELEV. (MLLW = Zero Datum) + 10.975
 STATION NO.: 00 + 150
 WEATHER: FAIR
 DEPTH OF WATER: 1.22 m.
 DATE MEASURED: 13 Mar. 2001
 TIME MEASURED: 7:00 AM
 COORDINATES: 1610184.750 N, 507158.500 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 %	4	10	40	200				
						10	15	25	10	20	30	40	50															
SS-21	78	[Symbol]	SW		Gravelly SAND; grayish brown to brown; 10% angular gravel; 16% coarse sand; 44% medium sand; 28% fine sand with very little amount of non-plastic silt; DENSE.	10	15	25																				
SS-22	67	[Symbol]			END OF BOREHOLE (22.00 m)	11	18	26					27				2.63			80	74	30	2					

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MACHINE: ACKER ACE
 DRILLER: A. TENERIFE
 SUPERVISOR: M. VILLAFUERTE

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

図5-3-3 (159/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW - 2a**

PROJECT: Pasig-Marikina River Channel Imp. Proj.
 LOCATION: Bagong Ilog, Pasig City
 BOREHOLE NO.: BMRW-2 DATE DRILLED: 09 - 12 March 2001

GROUND ELEV. (MLLW = Zero Datum) + 10.940
 STATION NO.: 00 + 450
 WEATHER: FAIR
 COORDINATES: 1610246.750 N, 507536.250 E

DEPTH OF WATER: 1.40 m.
 DATE MEASURED: 13 Mar. 2001
 TIME MEASURED: 8:00 AM

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
						10	20	30	40	50														
SS-1	100		CH		Sandy CLAY; dark gray; 25% fine sand; 74% high plasticity clay. VERY SOFT.	1	1	0					50	56	37	2.61					100	99	74	
SS-2	100					1	1	1																
SS-3	100		SW		Silty Gravelly SAND; 13% non-plastic silt; 18% sub-angular gravel; 20% coarse sand; 16% medium sand; 33% fine sand, LOOSE.	1	2	1					55			2.64				82	62	46	13	
SS-4	100					1	3	4																
SS-5	100				Sandy CLAY; dark brownish gray; 27% fine sand; 72% high plasticity clay; FIRM.	2	3	3					59	65	42	2.61				100	99	99	72	
SS-6	100		CH			3	5	4																
SS-7	100				Silty CLAY; dark brownish gray; contains little amount of medium sand; 94% plastic silty clay; STIFF to FIRM.	1	2	3					79	83	62	2.60				99	98	95	94	
SS-8	89					5	4	3																
SS-9	78					20	25	35					5			2.66				20	13	6	1	
SS-10	44		GW		Sandy GRAVEL; gray; 80% angular to sub-angular gravel with traces of coarse to fine sand and shell fragments; VERY DENSE to MEDIUM DENSE.	15	10	11																
SS-11	89					5	5	5																
SS-12	100					6	8	5																
SS-13	89					6	6	7					7			2.63				97	45	8	1	
SS-14	89					5	5	7																
SS-15	89					8	7	6																
SS-16	89		SP		Gravelly SAND; light brown; 3-11% sub-angular gravel and gravel size shell fragments; 52-62% coarse sand; 25-37% medium sand with traces of fine sand; MEDIUM DENSE.	6	5	6																
SS-17	89					4	5	5					7			2.63				89	27	2	1	
SS-18	100					8	7	6																
SS-19	89					10	9	9																
SS-20	89					12	11	12																

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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 (160/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRW - 2b

OBJECT: Pasig-Marikina River Channel Imp. Proj.
 LOCATION: Napindan Floodgate, Bagong Ilog, Pasig
 NO: BMRW-2 DATE DRILLED: 09 - 12 March 2001

GROUND ELEV. (MLLW = Zero Datum) + 10.940
 STATION NO.: 00 + 450
 WEATHER: FAIR

DEPTH OF WATER: 1.40 m.
 DATE MEASURED: 13 Mar. 2001
 TIME MEASURED: 8:00 AM

COORDINATES: 1610246.750 N, 507536.250 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 Wt. %	4	10	40	200								
SS-21	44				SW	Gravelly SAND, grayish brown to brown; 19% sub-angular to angular gravel; 11% coarse sand; 40% medium sand; 29% fine sand with very little amount of non-plastic silt; DENSE.	10	15	19																								
SS-22	44					END OF BOREHOLE (22.00 m)	15	20	23						35			2.64				81	70	30	1								

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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 (161/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW - 3a**

OBJECT: Pasig-Marikina River Channel Imp. Proj.
 LOCATION: Bagong Ilog, Pasig City
 NO: BMRW-3 DATE DRILLED: 07 - 08 March 2001
 GROUND ELEV. (MLLW = Zero Datum) + 9.751
 STATION NO.: 00 + 950
 WEATHER: FAIR
 DEPTH OF WATER: 1.10 m.
 DATE MEASURED: 07 Mar. 2001
 TIME MEASURED: 10:00 AM
 COORDINATES: 1610679.750 N, 507700.450 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	
SS-1	100				Sandy CLAY; brownish gray; 16% fine sand; 79% high plasticity clay. VERY SOFT.	1	0	0	10	20	30	40	50	62		61	39	2.62			98	97	95	79	
SS-2	89				Silty CLAY; brownish gray; 94% high plasticity silty clay with 6% fine sand; VERY SOFT.	1	0	1																	
SS-3	89				Silty CLAY; brownish gray; 94% high plasticity silty clay with 6% fine sand; VERY SOFT.	1	0	1						68		74	51	2.60			100	99	94		
UDS-1	100		CH		Sandy CLAY; gray; 19% sand with very little amount of gravel; 79% high plasticity clay; VERY SOFT to FIRM.	PRESSED								52	1.38	59	30	2.62	Cc 0.970	Pc 0.800	98	93	82	79	
SS-4	67					2	3	4																	
SS-5	100				Silty CLAY; gray; 92% high plasticity clay with traces of fine sand; SOFT to VERY SOFT.	1	1	2																	
SS-6	100					1	0	1						54		72	49	2.60			100	99	92		
UDS-2	89				Sandy CLAY; gray; 85% high plasticity clay with 14% fine sand; VERY SOFT.	PRESSED									55	1.63	60	32	2.60	Cc 0.700	Pc 2.250	100	99	85	
SS-7	100					1	1	1																	
SS-8	89		SM		Silty SAND; gray; 17% sub-angular gravel; 18% non-plastic silt; 10% coarse sand; 17% medium sand; 38% fine sand; MEDIUM DENSE.	6	6	12						66				2.63			83	73	56	18	
SS-9	100		CH		Sandy Silty CLAY; gray; 5% sand; 94% high plasticity silty clay; VERY STIFF.	2	10	15						75		79	53	2.61			99	98	96	94	
SS-10	78		SP SM		Silty SAND; dirty white; 11% coarse sand; 58% medium sand; 25% fine sand with sand size shell fragments; 5% non-plastic silty fines; MEDIUM DENSE.	7	9	10						34				2.63			99	88	30	5	
SS-11	44					6	9	12																	
SS-12	89					2	2	2						61		53	33	2.61			100	98	96	94	
SS-13	89					2	2	3																	
SS-14	89					3	3	4																	
SS-15	89		CH		Silty CLAY; dark gray; 90-99% high plasticity clay with little amount of shell fragments; FIRM.	3	2	3						47		58	35	2.60					100	90*	
SS-16	89					3	3	3																	
SS-17	89					3	4	4																	
SS-18	89					3	3	5						39		56	32	2.60					100	99	99

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MACHINE: ACKER ACE
 DRILLER: P. CAPINA
 SUPERVISOR: M. VILLAFUERTE

LEGEND:

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

図5-3-3 (162/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRW - 3b

PROJECT: Pasig-Marikina River Channel Imp. Proj.
 LOCATION: Napindan Floodgate, Bagong Ilog, Pasig
 NO: BMRW-3 DATE DRILLED: 07 - 08 March 2001

GROUND ELEV. (MLLW = Zero Datum) + 9.751
 STATION NO.: 00 + 950
 WEATHER: FAIR
 COORDINATES: 1610679.750 N, 507700.450 E
 DEPTH OF WATER: 1.10 m.
 DATE MEASURED: 07 Mar. 2001
 TIME MEASURED: 10:00 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) 10 20 30 40 50							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN W, %	4	10	40	200			
IS-19	89		CH		Silty CLAY; dark gray; high plasticity clay; contains little amount of shell fragments; STIFF.	5	6	7																			
IS-20	89		SM		Silty SAND; gray; 39% non-plastic silt; 58% fine sand; MEDIUM DENSE.	5	8	8					24				2.63		98	98	97	39					
IS-21	89		CH		Silty CLAY; gray; 99% high plasticity clay; FIRM.	3	4	4					43	69	45	2.61								100	99		
IS-22	89		CH		Sandy CLAY; gray; 64% high plasticity clay; contains 35% fine sand; STIFF.	3	3	4																			
IS-23	100				END OF BOREHOLE (25.00 m)	6	7	8					32	53	32	2.62							100	99	64		

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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 (163/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW-4**

PROJECT: Pasig-Marikina River Channel Imp. Proj.
 LOCATION: Caniogan, Pasig City
 H NO: BMRW-4 DATE DRILLED: 03 - 06 March 2001
 GROUND ELEV. (MLLW = Zero Datum) + 10.455
 STATION NO.: 1 + 450
 WEATHER: FAIR
 COORDINATES: 1611172.250 N, 507770.250 E
 DEPTH OF WATER: 3..40 m.
 DATE MEASURED: 03 Mar. 2001
 TIME MEASURED: 8:00 AM

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	11		GM		Silty Sandy GRAVEL; dark brown; 16% non-plastic silt; 10% coarse sand; 10% medium sand; 10% fine sand; 54% sub angular gravel; DENSE to VERY DENSE.	10	15	18	10	20	30	40	50																
SS-2	11		GM					29	15	20	21	29	5	15				2.66			46	36	26	16					
CR-1	58		ST	31	SANDSTONE; light gray; fine-grained; moderately weathered; broken; Moderately HARD.	1	0	1	8											33.763	1.630								
CR-2	49		ST	18	Tuffaceous SANDSTONE; very light gray; moderately to highly weathered; broken; Moderately HARD.	CORING			6											80.357	2.711								
CR-3	74		ST	53	Tuffaceous SANDSTONE; very light gray; moderately to highly weathered; broken; Moderately HARD.	CORING			6											117.068	3.755								
CR-4	60		SS	60	Tuffaceous SILTSTONE; very light gray; moderately to highly weathered; broken; Moderately HARD.	CORING																							
CR-5	63		SS	47	Tuffaceous SILTSTONE; very light gray; moderately to highly weathered; broken; Moderately HARD.	CORING																							
CR-6	69		LT	38	Lapilli TUFF; very light gray; slightly to moderately weathered; broken; Moderately HARD.	CORING																							
CR-7	52		LT	38	Lapilli TUFF; very light gray; slightly to moderately weathered; broken; Moderately HARD.	CORING			6											155.661	4.310								
CR-8	50		SS	0	Tuffaceous SILTSTONE; grayish brown; friable; highly weathered; broken; Moderately SOFT.	CORING																							
CR-9	53		SS	0	Tuffaceous SILTSTONE; grayish brown; friable; highly weathered; broken; Moderately SOFT.	CORING																							
CR-10	88		LT	44	Tuffaceous SANDSTONE; very light brown; with gravel sized inclusions; highly weathered; Moderately HARD.	CORING			21											9.172	1.079								
CR-11	85		LT	79	SANDSTONE; light gray; coarse to fine grained; broken; Moderately SOFT.	CORING																							
CR-12	67		LT	62	SANDSTONE; light gray; coarse to fine grained; broken; Moderately SOFT.	CORING			11											45.754	1.613								
CR-13	50		SS	45	Tuffaceous SILTSTONE; gray; contains lapilli and pumice clasts; broken; Moderately SOFT.	CORING																							
END OF BOREHOLE (15.00 m)																													

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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 (164/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW-5**

OBJECT: Pasig-Marikina River Channel Imp. Proj.

GROUND ELEV. (MLLW = Zero Datum) + 11.090

DEPTH OF WATER: 1.00 m.

LOCATION: Ugong Sur, Pasig City

STATION NO.: 1 + 825

DATE MEASURED: 04 Mar. 2001

NO: BMRW-5 DATE DRILLED: 04 - 05 March 2001

WEATHER: **FAIR**

TIME MEASURED: 8:00 AM

COORDINATES: 1611538.250 N, 507879.750 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				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200		
SS-1	100	[Symbol]	CH		Sandy CLAY; grayish brown; 88% 93% high plasticity clay with little amount of coarse and medium sand; contains 7-9% fine sand; VERY SOFT To FIRM.	1	0	0														
SS-2	100	[Symbol]	CH			1	0	0														
SS-3	100	[Symbol]	SC		Clayey SAND; brown; 39% high plasticity clay with little amount of gravel; 57% coarse to fine sand; VERY DENSE.	1	2	3														
SS-4	67	[Symbol]		50		43	61	34	2.64													
CR-1	45	[Symbol]	Tf	52	Fine TUFF; light brown; slightly weathered; Moderately HARD.	CORING																
CR-2	79	[Symbol]		70		CORING																
CR-3	52	[Symbol]		52		CORING																
CR-4	34	[Symbol]		34		CORING																
CR-5	82	[Symbol]	ST	0	Tuffaceous SANDSTONE; brown; completely weathered; broken, coarse-grained; contains gravel sized pumice clasts. SOFT.	CORING																
CR-6	57	[Symbol]		42		CORING																
CR-7	71	[Symbol]	Tf	28	Fine TUFF; gray; highly weathered; Moderately SOFT. (10.80m)	CORING																
CR-8	48	[Symbol]		24		CORING																
CR-9	36	[Symbol]	ST	36	SANDSTONE; gray; coarse to medium grained; presence of sub-rounded gravel; moderately weathered; Moderately HARD.	CORING																
CR-10	37	[Symbol]		23		CORING																
CR-11	32	[Symbol]		23		CORING																
CR-12	56	[Symbol]		56		Gravelly SANDSTONE; brownish gray; coarse-grained; sub-angular gravel; moderately weathered. HARD.	CORING															
CR-13	78	[Symbol]	78	CORING																		
CR-14	86	[Symbol]	ST	47	SANDSTONE; grayish brown to gray; medium to coarse grained; moderately weathered; HARD.	CORING																
							CORING															
					END OF BOREHOLE (18.00 m)																	

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 2nd Floor Prudential Bank Building,
 1377 A. Mabini St., Ermita, Manila

MACHINE: ACKER ACE
 DRILLER: P. CAPINA
 SUPERVISOR: M. VILLAFUERTE

LEGEND:

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

図5-3-3 (165/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW - 6a**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **Ugong Sur, Pasig City**
 DATE DRILLED: **16 - 17 March 2001**
 GROUND ELEV. (MLLW = Zero Datum) **+ 11.734**
 STATION NO.: **2 + 450**
 WEATHER: **FAIR**
 DEPTH OF WATER: **2.00** m.
 DATE MEASURED: **16 Mar. 2001**
 TIME MEASURED: **1:00 PM**
 COORDINATES: **1612066.750** N, **508220.400** 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	
						10	20	30	40	50															
SS-1	89		SM		Silty SAND; dark gray; 37% non plastic silt; 19% sub-rounded to sub-angular gravel w/ traces of coarse to medium sand; 37% fine sand; VERY LOOSE.	1	0	0						35				2.64			81	77	74	37	
SS-2	89		GM		Silty Sandy GRAVEL; brownish gray; 14% non plastic silt; 44% sub-angular to sub-rounded gravel; 11% coarse sand; 17% medium sand; 14% fine sand; LOOSE.	2	4	5																	
SS-3	89			2		2	2																		
SS-4	89		CH		Silty CLAY; dark gray; 91% high plasticity silty clay with little amount of gravel and sand; presence of shell fragments; FIRM.	1	3	4						16				2.64			56	45	28	14	
SS-5	89			2		3	3																		
SS-6	100			2		2	2								49	76	46	2.60			98	97	95	91*	
SS-7	100		CH		Sandy CLAY; dark gray; 77% high plasticity clay w/ little amount of medium sand; 19% fine sand; VERY STIFF.	2	2	3																	
SS-8	100			3		2	3																		
SS-9	100		SM		Silty SAND; dark gray; 41% non-plastic silt; contains little amount of medium sand; 53% fine sand; MEDIUM DENSE.	5	7	8						25	65	44	2.61			99	99	96	77*		
SS-10	100			9		10	9														99	98	94	41	
SS-11	100		CH		Silty CLAY; dark gray; 95% high plasticity silty clay with little amount of medium to fine sand; STIFF.	3	7	5																	
SS-12	100			3		4	4															100	98	95*	
SS-13	100			2		3	5																		
SS-14	100		CL		Gravelly CLAY; dark gray; 28% sub-angular gravel with little amount of medium to fine sand; 65% low to medium plasticity clay; STIFF to VERY STIFF.	4	5	5																	
SS-15	100			4		6	8															72	71	69	65*
SS-16	100			5		5	9																		
SS-17	100		CH		Silty CLAY; brown; 82% high plasticity silty clay with 7% gravel and an equal amount of fine sand; contains little amount of coarse sand; VERY STIFF.	7	8	8																	
SS-18	100			7		10	12															93	90	89	82*
SS-19	100			9		10	9																		
SS-20	100					8	11	12																	

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 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 (166/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW - 6b**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **Ugong Sur, Pasig City**
 NO: **BMRW-6** DATE DRILLED: **16 - 17 March 2001**
 GROUND ELEV. (MLLW = Zero Datum) **+ 11.734**
 STATION NO.: **2 + 450**
 WEATHER: **FAIR**
 DEPTH OF WATER: **2.00** m.
 DATE MEASURED: **16 Mar. 2001**
 TIME MEASURED: **1:00 PM**
 COORDINATES: **1612066.750** N, **508220.400** 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-21	100				Gravelly Sandy CLAY; brown; 12% gravel; 17% fine to coarse sand; 71% high plasticity clay; VERY STIFF.	4	7	8						36		60	33	2.62			88	85	80	71*
SS-22	100				Sandy CLAY; brown; 17% medium sand; 24% fine sand with very little amount of coarse sand and gravel; 52% high plasticity clay; HARD.	7	8	9																
SS-23	100		CH			12	17	18																
SS-24	100					13	17	22						33		53	30	2.62			96	93	76	52*
SS-25	100					12	18	24																
SS-26	100				Sandy CLAY; brown; 14% fine sand; 84% high plasticity clay; HARD.	14	20	21						23		66	45	2.60			100	99	98	84*
END OF BOREHOLE (26.00 m)																								

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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 (167/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRW-7a

OBJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Ugong Norte, Pasig City
NO: BMRW-7 DATE DRILLED: 14 - 15 February 2001

GROUND ELEV. (MLLW = Zero Datum) + 11.125
STATION NO.: 2 + 950
WEATHER: FAIR

DEPTH OF WATER: 1.20 m.
DATE MEASURED: 14 Feb. 2001
TIME MEASURED: 7:00 AM

COORDINATES: 1612422.250 N, 508562.750 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 %, %	4	10	40	200
SS-1	89	⊗	CH	Sandy CLAY; dark greenish gray; 6% fine sand; 93% high plasticity clay; VERY SOFT.	1	0	0					55	60	36	2.61					100	99	93*	
SS-2	89	⊗	ML	Sandy SILT; dark greenish gray; 48% non-plastic silt; 11% angular to sub-angular gravel; 12% medium sand; 21% of fine sand and 8% coarse sand; VERY LOOSE.	1	1	0					39			2.63				89	81	69	48	
SS-3	89	⊗	SW	Silty Gravelly SAND; dark greenish gray; 27% non-plastic silt; 28% sub-angular to angular gravel; 15% coarse sand; 20% medium sand; 12% fine sand. LOOSE.	1	1	2																
SS-4	89	⊗			1	2	2																
SS-5	89	⊗			1	4	4																
SS-6	89	⊗			4	3	2					28			2.64				72	59	39	27	
SS-7	89	⊗			2	2	2																
SS-8	89	⊗			2	2	2																
SS-9	89	⊗			2	3	5					51	58	33	2.60				99	98	95	86*	
SS-10	89	⊗			2	4	4																
SS-11	89	⊗			2	2	2																
SS-12	89	⊗	CH	Silty CLAY; dark gray; 88-99% high plasticity silty clay; contains very little amount of sand and shell fragments; FIRM to VERY STIFF.	3	2	2					74	69	46	2.60				100	97	95*		
SS-13	89	⊗			2	3	2																
SS-14	89	⊗			3	3	3																
SS-15	89	⊗			3	3	4						36	64	45	2.60				100	99	93*	
SS-16	89	⊗			3	4	5																
SS-17	89	⊗			3	5	5																
SS-18	89	⊗			2	6	5						38	74	49	2.60				100	99	93*	
SS-19	100	⊗			9	10	12																
SS-20	100	⊗			8	9	9																

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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 (168/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRW - 7b**

PROJECT: Pasig-Marikina River Channel Imp. Proj.
 LOCATION: Ugong Norte, Pasig City
 NO: BMRW-7 DATE DRILLED: 14 - 15 February 2001

GROUND ELEV. (MLLW = Zero Datum) + 11.125
 STATION NO.: 2 + 950
 WEATHER: FAIR
 COORDINATES: 1612422.250 N, 508562.750 E

DEPTH OF WATER: 1.20 m.
 DATE MEASURED: 14 Feb. 2001
 TIME MEASURED: 7:00 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-21	100		CH		Sandy CLAY; gray; 44% medium sand and very little amount of fine sand; 54% high plasticity clay; VERY STIFF.	9	11	11	10	20	30	40	50	33	72	50	2.62			100	58	54*		
SS-22	89					10	12	14																
SS-23	100					8	10	12																
SS-24	89					Silty CLAY; brownish gray to brown; contains very little amount of fine sand; 94-97% high plasticity clay; STIFF To HARD.	6	5	5					39	88	64	2.60			100	98	94*		
SS-25	100						13	15	17															
SS-26	89						15	15	16					29	74	48	2.60					100	97*	
					END OF BOREHOLE (26.00 m)																			



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 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 (169/221) 柱状図 (フェーズI実施分)

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

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **Ugong Norte, Pasig City**
 NO: **BMRW-8** DATE DRILLED: **12 - 13 February 2001**
 GROUND ELEV. (MLLW = Zero Datum) **+ 9.418**
 STATION NO.: **3 + 450**
 WEATHER: **FAIR**
 COORDINATES: **1612884.750 N, 508730.515 E**
 DEPTH OF WATER: **2.00** m.
 DATE MEASURED: **12 Feb. 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	AITERBERG 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		SM		Silty SAND; brownish gray, 31% non-plastic silt; 27% sub-angular to angular gravel; 22% coarse sand; 16% med. sand with little amount of fine sand. VERY LOOSE.	1	0	0						32				2.65			73	51	35	31	
SS-2	89		CH		Silty CLAY; dark gray; 98% high plasticity clay; very small amount of fine sand; SOFT.	1	1	2																	
SS-3	89					3	2	1						49	74	47	2.60						100	98	
SS-4	89		CL		Sandy CLAY; dark gray; 66% medium plasticity clay; 32% fine sand; SOFT to STIFF.	3	2	1																	
SS-5	89					2	2	2																	
SS-6	89					3	4	5						45	48	22	2.61				100	99	98	68	
SS-7	89					3	4	4																	
SS-8	89				Silty CLAY; dark gray; 100% high plasticity silty clay; FIRM to SOFT.	3	2	2																	
SS-9	89					2	2	2						54	77	47	2.60							100	
SS-10	89					2	2	2																	
SS-11	89		CH		Silty CLAY; dark gray; 95% high plasticity silty clay with little amount of fine sand; FIRM.	2	3	4																	
SS-12	89					3	3	4						58	63	34	2.60				100	99	99	95	
SS-13	89					3	4	4																	
SS-14	89					3	5	5																	
SS-15	89				Silty CLAY; dark gray; 90% high plasticity silty clay with 10% medium to fine sand; STIFF to HARD.	5	6	7						40	64	38	2.60				100	98	90		
SS-16	89					13	15	15																	
SS-17	89					12	15	20																	
CR-1	11			0	Tuffaceous SANDSTONE; light brown; highly weathered; broken; SOFT.	CORING																			
CR-2	18		ST	18	SANDSTONE; light gray; medium to coarse grained; moderately weathered; HARD.	CORING																			
CR-3	17			13		CORING																			

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 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 (170/221) 柱状図 (フェーズI実施分)