

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 15**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **L. Side Offshore, Santolan, Pasig**
 BOREHOLE NO: **BMLW-15** DATE DRILLED: **24 - 25 January 2001**

GROUND ELEV. (MLLW = Zero Datum) **+ 9.587**
 STATION NO.: **8 + 500**
 WEATHER: **FAIR**

DEPTH OF WATER: **2.20** m
 DATE MEASURED: **24 Jan. 2001**
 TIME MEASURED: **9:00 AM**

COORDINATES: **1616161.100** N, **508452.500** 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 M, %	4	10	40	200
SS-1	89			SM		Silty SAND; grayish brown; 37% medium sand; 50% fine sand w/ 11% nonplastic silt; MEDIUM DENSE.	2	5	7	10	20	30	40	50	24			2.63		99	98	61	1		
SS-2	89			CH		Sandy Silty CLAY; grayish brown; 87% high plasticity clay with traces of fine to medium sand; VERY STIFF.	9	10	13																
SS-3	89				Sandy CLAY; grayish brown; 39% fine sand; 55% high plasticity clay. VERY STIFF.	7	9	12							36	63	37	2.60		100	99	92	8		
SS-4	89				Silty CLAY; brownish gray; 85% high plasticity clay with traces of medium to fine sand. VERY STIFF.	11	11	10							34	53	26	2.61		98	96	94	5		
SS-5	89				Sandy Silty CLAY; light brown to brown; 10-11% fine sand w/ traces of course to medium fine sand; 69-88% high plasticity clay. VERY STIFF TO HARD.	7	9	10							39	79	61	2.60		100	99	92	8		
SS-6	89					16	19	18							56	59	33	2.60			100	98	8		
SS-7	89			ML		Gravelly Sandy SILT; brown; 15% sub-angular gravel; 10% coarse sand, 18% med. and fine sand; 57% low plasticity silt. HARD.	10	10	18						40	59	39	2.61		98	89	80	6		
SS-8	100					15	32	5							25			2.62		85	75	66	5		
CR-1	37			ST	22	SANDSTONE; light grayish brown; moderately weathered; broken; Moderately HARD.	CORING								24	1.47			10.535	0.531					
CR-2	55				15	SANDSTONE; light brown to light gray; highly weathered; broken; SOFT.	CORING								15	1.18			11.371	1.890					
CR-3	89				20		CORING								5	1.53			16.180	1.030					
CR-4	54				0		CORING																		
CR-5	36				0		CORING																		
CR-6	37				0		CORING																		
CR-7	45				35	Tuffaceous SANDSTONE; light grayish brown; moderately weathered; HARD.	CORING								15	1.37			42.084	2.079					
CR-8	46				13		CORING								15	1.39			21.682	1.046					
CR-9	57				57	SANDSTONE; brownish gray; highly weathered; broken; SOFT.	CORING																		
CR-10	55				55	Tuffaceous SANDSTONE; brownish gray; moderately weathered; HARD.	CORING								14	1.39			38.824	1.569					
CR-11	57				57		CORING								12	1.42			65.779	3.112					
CR-12	47				30	End of Borehole (20.00 m)	CORING								12	1.32			44.727	1.815					

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

MACHINE: **ACKER ACE**
 J. MADERA
 DRILLER: **I. LUENGAS**
 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 (101/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 16a**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **L. Side Offshore, Santolan, Pasig**
 BOREHOLE NO.: **BMLW-16** DATE DRILLED: **22 - 23 January 2001**

GROUND ELEV. (MLLW = Zero Datum) **+ 11.890**
 STATION NO.: **9 + 000**
 WEATHER: **FAIR**
 COORDINATES: **1616607.100 N, 508351.100 E**

DEPTH OF WATER: **1.40** m
 DATE MEASURED: **23 Jan. 2001**
 TIME MEASURED: **11:00 AM**

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 %	4	10	40	200
SS-1	44		GM		Silty Sandy GRAVEL; brownish gray; 48% angular to sub-rounded gravel; 32% fine to coarsesand; 20% non-plastic silt; VERY LOOSE.	1	0	2					22				2.65			52	44	33	20	
SS-2	78		CH		Sandy CLAY; grayish brown to brown; 11-19% fine sand with traces of coarse to medium sand and sub-rounded gravel; 64-70% high plasticity clay; STIFF TO HARD.	6	4	8																
SS-3	89			11		16	18	22						22	53	30	2.61			96	94	89	70	
SS-4	89		SM		Silty SAND, dark brown; 73% fine sand; 25% non-plasticsilt; DENSE.	7	13	18					22	52	29	2.61			93	90	85	64		
SS-5	89			11		14	22	25						25			2.63			100	98	25		
SS-6	78		CL		Sandy CLAY; brown; 0-12% medium sand; 13-19% fine sand; 61-87% low plasticity clay; VERY STIFF TO HARD.	8	10	19					29	43	22	2.61			96	92	80	61		
SS-7	67			9		11	21	29						29	42	24	2.60					100	87	
SS-8	89		CH		Sandy CLAY; brown to brownish gray; 8-22% fine sand; 76-92% high plasticity clay; VERY STIFF TO HARD.	6	8	9					38	55	35	2.60						100	92	
SS-9	89			6		13	14	39						39	55	31	2.60					100	99	89
SS-10	89			7		9	13																	
SS-11	89			7		12	19	39						39	48	27	2.61					100	97	80
SS-12	89			10		10	9	39						39	52	29	2.61					100	98	76
SS-13	89			10		13	18	39						39	58	35	2.61			98	96	91	82	
SS-14	89			12		15	20																	
SS-15	89			9		14	14	40						40	61	34	2.60					100	99	98
SS-16	89			5		9	9																	
SS-17	89			6		6	7																	
SS-18	89		CH		Sandy CLAY; dark gray; 7% fine to coarse sand; 93% medium to high plasticity clay; STIFF TO VERY STIFF.	5	7	7					57	59	34	2.60					100	99	96	93
SS-19	89			5		8	9																	
SS-20	89			6		8	9																	

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 (102/221) 柱状図 (フェーズI実施分)

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

PROJECT: Pasig-Marikina River Channel Imp. Proj. LOCATION: L. Side Offshore, Santolan, Pasig NO: BMLW-16 DATE DRILLED: 22 - 23 January 2001	GROUND ELEV. (MLW = Zero Datum) + 11.890 STATION NO.: 9 + 000 WEATHER: FAIR	DEPTH OF WATER: 1.40 m. DATE MEASURED: 23 Jan. 2001 TIME MEASURED: 11:00 AM COORDINATES: 1616607.100 N, 508351.100 E
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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 W, %	4			10	40		200					
SS-21	89		CH		Sandy CLAY; dark gray; 33% fine sand; 66% high plasticity clay; VERY STIFF.	9	12	15					36	58	39	2.61				100	99	66*		
SS-22	89		CH		Sandy CLAY; dark gray; 33% fine sand; 66% high plasticity clay; VERY STIFF.	7	7	9																
SS-23	89		CH		Sandy CLAY; dark gray; 33% fine sand; 66% high plasticity clay; VERY STIFF.	10	12	16																
SS-24	40		SM		Silty SAND; dark gray; 24% non-plastic silt; 34% medium sand; 30% fine sand with traces of gravel and coarse sand; DENSE TO VERY DENSE.	17	21	23					12			2.63			94	88	54	24		
SS-25	44		SM		Silty SAND; dark gray; 24% non-plastic silt; 34% medium sand; 30% fine sand with traces of gravel and coarse sand; DENSE TO VERY DENSE.	17	26	24																
END OF BOREHOLE (24.95 m)																								

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

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **L. Side Offshore, Santolan, Pasig**
 H NO: **BMLW-17** DATE DRILLED: **20 - 21 January 2001**

GROUND ELEV. (MLLW = Zero Datum) **+ 10.765**
 STATION NO.: **9 + 500**
 WEATHER: **FAIR**

DEPTH OF WATER: **2.00** m
 DATE MEASURED: **20 Jan. 2001**
 TIME MEASURED: **9:00 AM**

COORDINATES: **1616999.850** N, **508660.100** 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			
						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; brownish gray; 21% fine sand; 78% high plasticity clay; VERY SOFT.	1	0	0	10	20	30	40	50	41	50	32	2.61				100	99	76	
SS-2	56		SW		Silty Gravelly SAND; gray; non-plastic silt; sub-angular gravel; coarse to fine sand; LOOSE.	5	6	2																
SS-3	87		SM		Silty Gravelly SAND; gray; 21% non-plastic silt; 31% sub-angular gravel; 15% coarse sand; 19% medium sand; 14% fine sand; LOOSE TO VERY DENSE.	32	15	50						36			2.64			69	54	35	2	
SS-4	89				Sandy CLAY; grayish brown to brown; 16% fine sand; 82% high plasticity clay; STIFF TO VERY STIFF.	6	13	10						47	52	34	2.61				100	98	82	
SS-5	89		CH		Gravelly CLAY; brown; 17% sub-rounded gravel w/ little amount of fine sand; 78% high plasticity clay; VERY STIFF.	4	6	7																
SS-6	89					6	9	10						31	53	27	2.61			83	82	81	76	
SS-7	100				Silty CLAY; brown; 97% high plasticity clay with little amount of fine sand; VERY STIFF.	6	8	12						32	64	36	2.60			100	99	99	97	
SS-8	100					8	12	14																
SS-9	89		CL		Sandy CLAY; brown; 17% sub-angular gravel; 11% fine sand w/ traces of medium to coarse sand; 60% low to medium plasticity clay. HARD.	14	17	18						24	44	22	2.61			83	78	71	67	
SS-10	89					10	16	18																
SS-11	89		SC		Clayey SAND; brown; 33-40% low plasticity clay; 54-58% fine sand; MEDIUM DENSE.	7	8	11						31			2.63			100	98	4		
SS-12	89					8	13	14						30	43	21	2.63			96	93	87	3	
SS-13	89		CH		Sandy CLAY; brown; 19% fine sand; 80% high plasticity clay. VERY STIFF.	8	9	11																
SS-14	89					6	8	13						37	53	28	2.61			100	99	81		
SS-15	67		SM		Silty SAND; reddish brown; 26% non-plastic silt; 10% medium sand; 64% fine sand; DENSE.	9	19	23						23			2.63			100	90	2		
SS-16	78					11	16	20																
SS-17	89		CL		Sandy CLAY; brown; 19% fine sand; 81% low plasticity clay; VERY STIFF.	8	12	17																
SS-18	89					10	12	12						35	40	20	2.61						100	8
SS-19	89		CH		Silty CLAY; brown; traces of fine sand; 90% medium to high plasticity clay; HARD.	10	16	24																
SS-20	89				End of Borehole (20.00 m)	10	20	30						33	57	35	2.60			99	98	97	9	

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 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 (104/221) 柱状図 (フェーズI実施分)

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

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**

GROUND ELEV. (MLLW = Zero Datum) **+ 11.572**

DEPTH OF WATER: **2.50**

LOCATION: **L. Side Offshore, Santolan, Pasig**

STATION NO.: **10 + 000**

DATE MEASURED: **11 Dec. 2000**

BH NO: **BMLW-18** DATE DRILLED: **11 - 13 December 2000**

WEATHER: **FAIR**

TIME MEASURED: **9:00 AM**

COORDINATES: **1617497.100 N, 508721.500 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	
						15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN W, %	4	10
SS-1	78		CH		Sandy CLAY; brownish gray; 12% fine sand; 87% high plasticity clay. VERY STIFF.	6	8	9	10	47	63	33	2.61			100	99	8
SS-2	78		GM		Silty GRAVEL; gray; contains some fine to medium sand; sub-angular gravel; DENSE.	6	11	32										
SS-3	78		SM		Silty SAND; gray; 33% non-plastic silt; 14% coarse sand; 24% medium sand; 26% fine sand with little amount of gravel; MEDIUM DENSE.	5	7	21		68			2.63			97	83	59
SS-4	78					9	9	12										
SS-5	89					9	6	9										
SS-6	89					7	6	5		30	69	38	2.60			100	98	97
SS-7	89		CH		Silty CLAY; grayish brown; 91-95% high plasticity clay with traces of fine sand. STIFF to HARD.	5	5	8										
SS-8	89					9	8	12										
SS-9	89					10	14	17		35	65	34	2.60			100	99	98
SS-10	89					12	14	14										
SS-11	88					16	22	28										
SS-12	78				Silty SAND; brown; 59% fine sand; 39% non-plastic silt. DENSE.	10	14	20		32			2.62			100	98	3
SS-13	78		SM			10	13	20										
SS-14	67					14	17	18										
SS-15	44				Silty SAND; brown; 22% non-plastic silt; 25% medium fine sand, 53% fine sand; VERY DENSE.	13	23	28		26			2.62			100	75	2
End of Borehole (15.00 m)																		

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 DRILLER: J. MADERA
 SUPERVISOR: M. ESTAURA

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

図5-3-3 (105/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 19**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **L. Side Offshore, Pasig-Marikina River**
 ID NO: **BMLW-19** DATE DRILLED: **11 - 13 December 2000**

GROUND ELEV. (MLLW = Zero Datum) **+ 9.225**
 STATION NO.: **10 + 500**
 WEATHER: **FAIR**
 COORDINATES: **1617971.100 N, 508849.950 E**
 DEPTH OF WATER: **2.50** m
 DATE MEASURED: **14 Dec. 2000**
 TIME MEASURED: **8:00 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		UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE				
						15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	STRENGTH kg/cm ²	STRAIN %	4	10	40	200
SS-1	67		SW		Medium To Fine SAND; gray, 61% medium sand with traces of coarse sand and shell fragments; VERY LOOSE.	1	0	1						25				2.63			96	90	29	3
SS-2	67		SM		Silty SAND; gray; 49% non-plastic silt; 20% medium sand; 25% fine sand with traces of coarse sand and sub-angular gravel; LOOSE TO DENSE.	2	3	3																
SS-3	78					4	2	6						30				2.62			96	94	74	46
SS-4	67					15	17	14																
SS-5	89				Sandy Clayey SILT; light brown to brown; 12% fine sand; 84% very low plasticity clayey silt; VERY STIFF.	14	13	12																
SS-6	89		ML			6	7	10						30				2.60			100	99	96	84
SS-7	89					12	9	14																
SS-8	100				Gravelly Sandy SILT; light brown to brown; 25% sub-angular gravel; 7% coarse sand; 11% medium sand; 10% fine sand; 47% non-plastic silt; HARD.	43	50	13																
SS-9	78					41	14	28						26				2.62			75	68	57	47
SS-10	100					17	50	11																
CR-1	100		SS		SILTSTONE; light brown; highly weathered; generally broken; HARD.	CORING																		
SS-11	100		SC		Clayey SAND; brown; fine to medium sand; low plasticity clay; VERY DENSE.	43	50	15																
CR-2	NR				No Recovery	CORING																		
SS-12	100		ML		Sandy SILT; brown; fine to medium sand; non-plastic silt; VERY DENSE.	50	50	13																
CR-3	NR				No Recovery	CORING																		
SS-13	100					50	50	15						24				2.64			54	48	37	29
SS-14	100		GM		Sandy Silty GRAVEL; brown; 11% medium sand with traces of coarse and fine sand; 29% non-plastic silt; 46% sub-rounded gravel; VERY DENSE.	50	50	8																
CR-4	65		SS		SILTSTONE; light gray to brown; highly weathered; generally broken; HARD.	CORING																		
CR-5	53					CORING																		
CR-6	33		ST		SANDSTONE; yellowish brown to gray; highly weathered; generally broken; HARD.	CORING																		
CR-7	33				End of Borehole (20.05 m)	CORING																		

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

MACHINE: _____
 DRILLER: _____
 SUPERVISOR: _____

LEGEND:

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

図5-3-3 (106/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 20a**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **L. Side Offshore, Marikina River**
 BOREHOLE NO: **BMLW-20** DATE DRILLED: **20 - 22 December 2001**

GROUND ELEV. (MLLW = Zero Datum) **+ 10.595**
 STATION NO.: **11 + 000**
 WEATHER: **FAIR**
 COORDINATES: **1617821.250 N, 509180.500 E**
 DEPTH OF WATER: **2.50** m
 DATE MEASURED: **20 Dec. 2000**
 TIME MEASURED: **1:00 PM**

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 %	4	10	40	200		
SS-1	100		CH		Gravelly CLAY ; grayish brown; 11% coarse to fine sand; 33% sub-rounded gravel; 56% high plasticity clay; STIFF to VERY STIFF.	2	3	5							37		53	30	2.81			67	64	60	56	
SS-2	100					7	5	7																		
SS-3	100					7	7	10								39				2.85			73	60	51	44
SS-4	100					Silty CLAY ; brown to creamy brown; 89% high plasticity clay with little amount of fine sand; FIRM TO STIFF.	4	3	3																	
SS-5	100				3		4	5																		
SS-6	100				4		5	7								26		62	41	2.60			99	97	95	89
SS-7	100					Silty CLAY ; brown to creamy brown; 97% high plasticity clay with little amount of fine sand; VERY STIFF.	8	11	11																	
SS-8	100				6		9	11																		
SS-9	100				10		10	9								27		69	47	2.60			100	99	98	97
SS-10	67					Sandy CLAY ; creamy brown; 10% medium sand with traces of gravel and coarse and fine sand; 70% high plasticity clay; VERY STIFF TO HARD.	7	10	12																	
SS-11	100				7		10	12																		
SS-12	100				13		18	18								28		59	34	2.61			92	87	77	70
SS-13	100					Silty CLAY ; brown; 85% high plasticity clay w/ traces of fine sand and little amount of gravel and coarse to medium sand. VERY STIFF TO HARD.	8	7	10																	
SS-14	100			9	12		13																			
SS-15	100			10	11		12								29		65	38	2.60			96	94	92	85	
SS-16	100				Silty CLAY ; light grayish brown; 86% low to medium plasticity clay; contains traces of fine sand and little amount of gravel and coarse sand; VERY STIFF to HARD.	15	13	14																		
SS-17	33			10		15	18																			
SS-18	100		CL			11	13	15							39		48	26	2.60			96	94	93	86	
SS-19	100				11	13	13																			
SS-20	100				14	14	20																			

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

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


LEGEND:

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

図5-3-3 (107/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 20k**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **L. Side Offshore, Marikina River**
 BOREHOLE NO.: **BMLW-20** DATE DRILLED: **20 - 22 December 2000**

GROUND ELEV. (MLLW = Zero Datum) **+ 10.595**
 STATION NO.: **11 + 000**
 WEATHER: **FAIR**

DEPTH OF WATER: **2.50** m
 DATE MEASURED: **20 Dec. 2000**
 TIME MEASURED: **1:00 PM**

COORDINATES: **1617821.250** N, **509180.500** 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			
						15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN W. %	4	10	40	200
1	67	[Symbol]	SM		Silty SAND ; dark gray; 30% non-plastic silt; 65% fine sand with little amount of medium sand; DENSE TO VERY DENSE .	22	19	19	10	20	30	40	50	20				2.63			100	99	95	30
2	89	[Symbol]				12	22	28																
3	89	[Symbol]				21	22	27																
4	100	[Symbol]	CH		Sandy CLAY ; dark gray; 16% fine sand with traces of medium sand and little amount of gravel; 69% high plasticity clay; VERY STIFF .	19	15	15					45	59	39	2.61				95	94	85	65	
5	100	[Symbol]				10	12	17																
6					End of Borehole (25.00 m)																			
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								

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 1377 A. Mabini St., Ermita, Manila

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

LEGEND:

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

図5-3-3 (108/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 21a**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **L. Side Offshore, Calumpang, Marikina**
 BOREHOLE NO.: **BMLW-21** DATE DRILLED: **28 Dec. - 02 Jan. 2001**

GROUND ELEV. (MLLW = Zero Datum) **+ 9.970**
 STATION NO.: **11 + 500**
 WEATHER: **FAIR**
 COORDINATES: **1617442.250 N, 509511.125 E**
 DEPTH OF WATER: **2.90** m
 DATE MEASURED: **02 Jan. 2001**
 TIME MEASURED: **4:00 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 W, %	4	10	40	200
SS-1	100					Silty CLAY; grayish brown; traces of coarse to fine sand with little amount of gravel; 88% high plasticity silty clay; SOFT.	2	2	2	10	20	30	40	50	31	55	37	2.60			96	95	92	88	
SS-2	100					Sandy CLAY; brownish gray to light brown; 14% fine sand; 82% high plasticity clay; STIFF TO VERY STIFF.	6	6	6																
SS-3	100						8	9	10						36	60	33	2.61			99	98	96	82	
SS-4	100				CH	Sandy CLAY; brownish gray to light brown; high plasticity clay; fine sand; STIFF to HARD.	11	11	9																
SS-5	100						14	17	22																
SS-6	100					Gravelly CLAY; brown; 11% sub-angular gravel with little amount of coarse to fine sand; 81% high plasticity clay; HARD.	14	19	19						29	61	27	2.61			89	85	83	81	
SS-7	100					Sandy CLAY; brown; 20% coarse to fine sand with little amount of gravel; 77% high plasticity clay; HARD.	13	19	21																
SS-8	100						28	29	23																
SS-9	89					Sandy SILT; gray; 19% fine sand; 76% low plasticity silt with little amount of gravel. HARD.	21	24	28						29	63	33	2.61			97	92	85	77	
SS-10	89						15	25	27																
SS-11	61					Sandy SILT; gray; 19% fine sand; 76% low plasticity silt with little amount of gravel. HARD.	21	33	3																
SS-12	57				ML		14	26	5						22			2.61			97	96	95	76	
SS-13	56					Silty GRAVEL; gray; 10% fine to medium sand; 41% low plasticity silt; 49% angular gravel; VERY DENSE TO DENSE.	15	19	27																
SS-14	44						12	17	28																
SS-15	57				GM	Silty GRAVEL; gray; 10% fine to medium sand; 41% low plasticity silt; 49% angular gravel; VERY DENSE TO DENSE.	19	23	5						21			2.62			51	51	50	41	
SS-16	100						10	18	17																
SS-17	100					Silty CLAY; gray; 93% high plasticity clay with traces of fine sand; HARD.	12	15	17																
SS-18	100				CH		11	17	20						36	67	41	2.60			100	99	99	99	
SS-19	100					Silty CLAY; gray; 93% high plasticity clay with traces of fine sand; HARD.	16	17	21																
SS-20	100						13	15	18																

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MACHINE: **ACKER ACE**
 DRILLER: **J. MADERA**
 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 (109/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW-21k**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **L. Side Offshore, Calumpang, Marikina**
 H NO: **BMLW-21** DATE DRILLED: **28 Dec. - 02 Jan. 2001**

GROUND ELEV. (MLLW = Zero Datum) **+ 9.970**
 STATION NO.: **11 + 500**
 WEATHER: **FAIR**

DEPTH OF WATER: **2.90** m
 DATE MEASURED: **02 Jan. 2001**
 TIME MEASURED: **4:00 PM**

COORDINATES: **1617442.250** N, **509511.125** 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
21	100			SM		Silty SAND; gray; 46% low plasticity silt; 50% fine sand; DENSE.	12	15	21						19			2.62			98	97	96	4	
22	100						16	18	24																
23	100						12	15	23																
24	100			CL		Sandy CLAY; gray; 37% fine sand; 62% low to medium plasticity clay; HARD.	13	14	19						33	48	30	2.61					100	99	6
25	100					End of Borehole (25.00 m)	14	18	26																
26																									
27																									
28																									
29																									
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MACHINE: **ACKER ACE**
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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 (110/221) 柱状図 (フェーズI実施分)

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

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **L. Side Offshore, Calumpang, Marikina**
 NO: **BMLW-22** DATE DRILLED: **04 - 05 January 2001**

GROUND ELEV. (MLLW = Zero Datum) **+ 10.012**
 STATION NO.: **12 + 000**
 WEATHER: **FAIR**
 COORDINATES: **1617541.100 N, 509951.100 E**

DEPTH OF WATER: **2.50** m.
 DATE MEASURED: **04 Jan. 2001**
 TIME MEASURED: **7:00 AM**

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	[Symbol]	CH		Silty CLAY; light brownish gray to brown; 92-98% high plasticity silty clay with little amount of fine sand. STIFF TO VERY STIFF.	3	4	6	[Graph]					38		81	49	2.60			100	99	98																																																																																																																																																																																																																																																																																																
SS-2	89	[Symbol]	CH			5	8	9							SS-3	89	[Symbol]	CH		8	11	19							SS-4	89	[Symbol]	CH		11	12	15							SS-5	89	[Symbol]	CH		5	8	10							SS-6	89	[Symbol]	CH		5	9	10						31		69	42	2.60			100	97	SS-7	89	[Symbol]	ML		Sandy SILTY; brown; 53% fine sand with little amount of medium sand; 45% non-plastic silt; VERY STIFF TO HARD.	6	7	10							SS-8	89	[Symbol]	ML		6	8	12						SS-9	89	[Symbol]	ML		7	12	13						29				2.63			100	96	45	SS-10	89	[Symbol]	CH		7	13	22							SS-11	89	[Symbol]	CH		Silty CLAY; brown to dark gray; 90% high plasticity silty clay with traces of fine sand; STIFF TO VERY STIFF.	6	10	13							SS-12	89	[Symbol]	CH		5	6	7						39		62	38	2.60			100	99	97	90	SS-13	89	[Symbol]	ML		10	11	11							SS-14	89	[Symbol]	ML		Sandy SILT; dark gray; fine sand; non-plastic silt; VERY STIFF.	6	8	9							SS-15	89	[Symbol]	ML		9	8	11						33		61	40	2.60			100	99	83	SS-16	89	[Symbol]	CH		Silty CLAY; dark gray to grayish brown; 99% high plasticity silty clay. HARD.	11	16	21							SS-17	89	[Symbol]	CH		13	18	21						SS-18	89	[Symbol]	CH		10	16	18						29		74	41	2.60			100	99	SS-19	89	[Symbol]	CH		13	18	20						SS-20	89	[Symbol]	CH		12	20	21						
SS-3	89	[Symbol]	CH			8	11	19							SS-4	89	[Symbol]	CH		11	12	15							SS-5	89	[Symbol]	CH		5	8	10							SS-6	89	[Symbol]	CH		5	9	10						31		69	42	2.60			100	97	SS-7	89	[Symbol]	ML		Sandy SILTY; brown; 53% fine sand with little amount of medium sand; 45% non-plastic silt; VERY STIFF TO HARD.	6	7	10							SS-8	89	[Symbol]	ML			6	8	12						SS-9	89	[Symbol]	ML		7	12	13						29				2.63			100	96	45	SS-10	89	[Symbol]	CH		7	13	22							SS-11	89	[Symbol]	CH		Silty CLAY; brown to dark gray; 90% high plasticity silty clay with traces of fine sand; STIFF TO VERY STIFF.	6	10	13							SS-12	89	[Symbol]		CH		5	6	7						39		62	38	2.60			100	99	97	90	SS-13	89	[Symbol]	ML		10	11	11							SS-14	89	[Symbol]	ML		Sandy SILT; dark gray; fine sand; non-plastic silt; VERY STIFF.	6	8	9							SS-15	89		[Symbol]	ML		9	8	11						33		61	40	2.60			100	99	83	SS-16	89	[Symbol]	CH		Silty CLAY; dark gray to grayish brown; 99% high plasticity silty clay. HARD.	11	16	21							SS-17		89	[Symbol]	CH		13	18	21						SS-18	89	[Symbol]	CH		10	16	18						29		74	41	2.60			100	99	SS-19	89	[Symbol]	CH		13	18	20						SS-20	89	[Symbol]	CH		12	20	21																
SS-4	89	[Symbol]	CH			11	12	15							SS-5	89	[Symbol]	CH		5	8	10							SS-6	89	[Symbol]	CH		5	9	10						31		69	42	2.60			100	97	SS-7	89	[Symbol]	ML		Sandy SILTY; brown; 53% fine sand with little amount of medium sand; 45% non-plastic silt; VERY STIFF TO HARD.	6	7	10							SS-8	89	[Symbol]	ML			6	8	12						SS-9	89	[Symbol]	ML			7	12	13						29				2.63			100	96	45	SS-10	89	[Symbol]	CH		7	13	22							SS-11	89	[Symbol]	CH		Silty CLAY; brown to dark gray; 90% high plasticity silty clay with traces of fine sand; STIFF TO VERY STIFF.	6	10	13							SS-12	89	[Symbol]		CH		5	6	7						39		62	38	2.60			100	99	97	90	SS-13	89	[Symbol]	ML		10	11	11							SS-14	89	[Symbol]	ML		Sandy SILT; dark gray; fine sand; non-plastic silt; VERY STIFF.	6	8	9							SS-15	89	[Symbol]		ML		9	8	11						33		61	40	2.60			100	99	83	SS-16	89	[Symbol]	CH		Silty CLAY; dark gray to grayish brown; 99% high plasticity silty clay. HARD.	11	16	21							SS-17	89	[Symbol]		CH		13	18	21							SS-18	89	[Symbol]	CH		10	16	18						29		74	41	2.60			100	99	SS-19	89	[Symbol]	CH		13	18	20						SS-20	89	[Symbol]	CH		12	20	21																												
SS-5	89	[Symbol]	CH			5	8	10							SS-6	89	[Symbol]	CH		5	9	10						31		69	42	2.60			100	97	SS-7	89	[Symbol]	ML		Sandy SILTY; brown; 53% fine sand with little amount of medium sand; 45% non-plastic silt; VERY STIFF TO HARD.	6	7	10							SS-8	89	[Symbol]	ML			6	8	12						SS-9	89	[Symbol]	ML			7	12	13						29				2.63			100	96	45	SS-10	89	[Symbol]	CH		7	13	22							SS-11	89	[Symbol]	CH		Silty CLAY; brown to dark gray; 90% high plasticity silty clay with traces of fine sand; STIFF TO VERY STIFF.	6	10	13							SS-12	89	[Symbol]	CH			5	6	7						39		62	38	2.60			100	99	97	90	SS-13	89	[Symbol]	ML		10	11	11							SS-14	89	[Symbol]	ML		Sandy SILT; dark gray; fine sand; non-plastic silt; VERY STIFF.	6	8	9							SS-15	89	[Symbol]	ML			9	8	11						33		61	40	2.60			100	99	83	SS-16	89	[Symbol]	CH		Silty CLAY; dark gray to grayish brown; 99% high plasticity silty clay. HARD.	11	16	21							SS-17	89	[Symbol]	CH			13	18	21						SS-18	89	[Symbol]		CH		10	16	18							29		74	41	2.60			100	99	SS-19	89	[Symbol]	CH		13	18	20						SS-20	89	[Symbol]	CH		12	20	21																																									
SS-6	89	[Symbol]	CH		5	9	10						31		69	42	2.60			100	97																																																																																																																																																																																																																																																																																																		
SS-7	89	[Symbol]	ML		Sandy SILTY; brown; 53% fine sand with little amount of medium sand; 45% non-plastic silt; VERY STIFF TO HARD.	6	7	10							SS-8	89	[Symbol]	ML		6	8	12						SS-9	89	[Symbol]	ML		7	12	13						29					2.63			100	96	45	SS-10	89	[Symbol]	CH		7	13	22							SS-11	89	[Symbol]	CH		Silty CLAY; brown to dark gray; 90% high plasticity silty clay with traces of fine sand; STIFF TO VERY STIFF.	6	10	13							SS-12	89	[Symbol]	CH		5	6	7						39		62	38	2.60			100	99	97	90	SS-13	89	[Symbol]	ML		10	11	11							SS-14	89	[Symbol]	ML		Sandy SILT; dark gray; fine sand; non-plastic silt; VERY STIFF.	6	8	9							SS-15	89	[Symbol]	ML		9	8	11						33		61	40	2.60			100	99	83	SS-16	89	[Symbol]	CH		Silty CLAY; dark gray to grayish brown; 99% high plasticity silty clay. HARD.	11	16	21							SS-17	89	[Symbol]	CH		13	18	21						SS-18	89	[Symbol]	CH		10	16	18						29		74	41		2.60			100	99	SS-19	89	[Symbol]	CH		13	18	20							SS-20	89	[Symbol]	CH		12	20	21																																																																																		
SS-8	89	[Symbol]	ML			6	8	12						SS-9	89	[Symbol]	ML		7	12	13						29				2.63			100	96	45	SS-10	89	[Symbol]	CH		7	13	22							SS-11	89	[Symbol]	CH		Silty CLAY; brown to dark gray; 90% high plasticity silty clay with traces of fine sand; STIFF TO VERY STIFF.	6	10	13							SS-12	89	[Symbol]	CH			5	6	7						39		62	38	2.60			100	99	97	90	SS-13	89	[Symbol]	ML		10	11	11							SS-14	89	[Symbol]	ML		Sandy SILT; dark gray; fine sand; non-plastic silt; VERY STIFF.	6	8	9							SS-15	89	[Symbol]	ML			9	8	11						33		61	40	2.60			100	99	83	SS-16	89	[Symbol]	CH		Silty CLAY; dark gray to grayish brown; 99% high plasticity silty clay. HARD.	11	16	21							SS-17	89	[Symbol]		CH		13	18	21						SS-18	89	[Symbol]	CH		10	16	18						29		74	41	2.60			100	99	SS-19	89	[Symbol]	CH		13	18		20						SS-20	89	[Symbol]	CH		12	20	21																																																																																															
SS-9	89	[Symbol]	ML			7	12	13						29				2.63			100	96	45																																																																																																																																																																																																																																																																																																
SS-10	89	[Symbol]	CH		7	13	22							SS-11	89	[Symbol]	CH		Silty CLAY; brown to dark gray; 90% high plasticity silty clay with traces of fine sand; STIFF TO VERY STIFF.	6	10	13							SS-12	89	[Symbol]	CH		5	6	7						39		62	38	2.60			100	99	97	90	SS-13	89	[Symbol]	ML		10	11	11							SS-14	89	[Symbol]	ML		Sandy SILT; dark gray; fine sand; non-plastic silt; VERY STIFF.	6	8	9							SS-15	89	[Symbol]	ML		9	8	11						33		61	40	2.60			100	99	83	SS-16	89	[Symbol]	CH		Silty CLAY; dark gray to grayish brown; 99% high plasticity silty clay. HARD.	11	16	21							SS-17	89	[Symbol]	CH		13	18	21						SS-18	89	[Symbol]	CH		10	16	18						29		74		41	2.60			100	99	SS-19	89	[Symbol]	CH		13		18	20						SS-20	89	[Symbol]	CH		12	20	21																																																																																																																																						
SS-11	89	[Symbol]	CH		Silty CLAY; brown to dark gray; 90% high plasticity silty clay with traces of fine sand; STIFF TO VERY STIFF.	6	10	13							SS-12	89	[Symbol]	CH			5	6	7						39		62	38	2.60			100	99	97	90	SS-13	89	[Symbol]	ML		10	11	11							SS-14	89	[Symbol]	ML		Sandy SILT; dark gray; fine sand; non-plastic silt; VERY STIFF.	6	8	9							SS-15	89	[Symbol]		ML		9	8	11						33		61	40	2.60			100	99	83	SS-16	89	[Symbol]	CH		Silty CLAY; dark gray to grayish brown; 99% high plasticity silty clay. HARD.	11	16	21							SS-17	89		[Symbol]	CH		13	18	21						SS-18	89	[Symbol]	CH		10	16	18						29		74	41	2.60			100	99	SS-19	89	[Symbol]	CH			13	18	20						SS-20	89	[Symbol]	CH		12	20	21																																																																																																																																																		
SS-12	89	[Symbol]	CH			5	6	7						39		62	38	2.60			100	99	97	90																																																																																																																																																																																																																																																																																															
SS-13	89	[Symbol]	ML		10	11	11							SS-14	89	[Symbol]	ML		Sandy SILT; dark gray; fine sand; non-plastic silt; VERY STIFF.	6	8	9							SS-15	89	[Symbol]	ML		9	8	11						33		61	40	2.60			100	99	83	SS-16	89	[Symbol]	CH		Silty CLAY; dark gray to grayish brown; 99% high plasticity silty clay. HARD.	11	16	21							SS-17	89	[Symbol]	CH		13	18	21						SS-18	89	[Symbol]	CH		10	16	18						29		74	41	2.60				100	99	SS-19	89	[Symbol]	CH		13	18		20						SS-20	89	[Symbol]	CH		12	20	21																																																																																																																																																																																											
SS-14	89	[Symbol]	ML		Sandy SILT; dark gray; fine sand; non-plastic silt; VERY STIFF.	6	8	9							SS-15	89	[Symbol]	ML			9	8	11						33		61	40	2.60			100	99	83	SS-16	89	[Symbol]	CH		Silty CLAY; dark gray to grayish brown; 99% high plasticity silty clay. HARD.	11	16	21							SS-17	89	[Symbol]		CH		13	18	21						SS-18	89	[Symbol]	CH		10	16	18						29		74	41	2.60			100	99	SS-19	89	[Symbol]	CH		13	18	20							SS-20	89	[Symbol]	CH		12	20	21																																																																																																																																																																																																								
SS-15	89	[Symbol]	ML			9	8	11						33		61	40	2.60			100	99	83																																																																																																																																																																																																																																																																																																
SS-16	89	[Symbol]	CH		Silty CLAY; dark gray to grayish brown; 99% high plasticity silty clay. HARD.	11	16	21							SS-17	89	[Symbol]	CH		13	18	21						SS-18	89	[Symbol]	CH		10	16	18						29		74		41	2.60			100	99	SS-19	89	[Symbol]	CH		13		18	20						SS-20	89	[Symbol]	CH		12	20	21																																																																																																																																																																																																																																															
SS-17	89	[Symbol]	CH			13	18	21						SS-18	89	[Symbol]	CH		10	16	18						29		74	41	2.60			100	99	SS-19	89	[Symbol]	CH		13	18	20							SS-20	89	[Symbol]	CH		12	20	21																																																																																																																																																																																																																																																														
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BTA 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**
M. VILLAFUERTE

LEGEND:

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

図5-3-3 (111/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 22b**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **L. Side Offshore, Calumpang, Marikina**
 BOREHOLE NO: **BMLW-22** DATE DRILLED: **04 - 05 January 2001**

GROUND ELEV. (MLLW = Zero Datum) **+ 10.012**
 STATION NO.: **12 + 000**
 WEATHER: **FAIR**
 COORDINATES: **1617541.100 N, 509951.100 E**
 DEPTH OF WATER: **2.50** m.
 DATE MEASURED: **04 Jan. 2001**
 TIME MEASURED: **7:00 AM**

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 W, %	4	10	40	200				
SS-21	89		CH		Sandy CLAY ; grayish brown; 38% fine sand; 61% high plasticity clay; HARD .	11	16	19		27		53	27	2.61										
SS-22	83		SW		Gravelly SAND ; brown; 12% non-plastic silt; 33% sub-rounded gravel; 16% coarse sand; 25% medium sand; 14% fine sand; VERY DENSE .	18	24	26																
SS-23	78					18	19	20																
SS-24	83					43	36	14	6		14				2.65			67	51	26	12			
End of Borehole (23.91 m)																								

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 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 (112/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW-23**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **L. Side Offshore, Butiki Park, Marikina**
 HOLE NO.: **BMLW-23** DATE DRILLED: **03 - 05 January 2001**

GROUND ELEV. (MLLW = Zero Datum) **+ 12.016**
 STATION NO.: **12 + 500**
 WEATHER: **FAIR**

DEPTH OF WATER: **2.50**
 DATE MEASURED: **04 Jan. 2001**
 TIME MEASURED: **7:00 AM**

COORDINATES: **1618039.500** N, **510008.750** 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 M, %	4	10	40	200							
SS-1	100				Silty CLAY ; grayish brown to brown; 95% high plasticity silty clay with little amount of fine to medium sand; STIFF TO VERY STIFF.	6	6	5						35		68	38	2.60													
SS-2	100					7	10	11																							
SS-3	100					6	6	9							40		69	44	2.60												
SS-4	100		CH			9	10	12																							
SS-5	100					Sandy CLAY ; light brown; 13% fine sand with traces of medium; 78% high plasticity clay; VERY STIFF.	9	14	13																						
SS-6	100						10	12	17							33		50	26	2.61											
SS-7	100						8	9	11																						
SS-8	100						9	9	13																						
SS-9	67		CL		Sandy CLAY ; light brown; 25% fine sand; 72% low plasticity clay; VERY STIFF.	17	24	5						35		48	27	2.61													
SS-10	50						50																								
SS-11	76						25	40	11																						
SS-12	47		SP SM				35	40	10						8				2.63												
SS-13	50						50																								
SS-14	60					25	10																								
SS-15	60					50																									
					End of Borehole (14.80 m)	31	10							8				2.65													

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

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

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 24a**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **L. Side Offshore, Sta. Elena, Marikina**
 NO: **BMLW-24** DATE DRILLED: **09 - 10 January 2001**

GROUND ELEV. (MLLW = Zero Datum) **+ 12.475**
 STATION NO.: **13 + 000**
 WEATHER: **FAIR**

DEPTH OF WATER: **2.50** m.
 DATE MEASURED: **10 Jan. 2001**
 TIME MEASURED: **1:00 PM**

COORDINATES: **1618534.650** N, **509944.500** 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	200
SS-1	100		SM		Silty SAND; brown; 12% non-plastic silt; 5-11% gravel; 7-17% coarse sand; 24-25% medium sand; 35-52% fine sand; MEDIUM DENSE.	5	6	6						25			2.63			95	88	64	12	
SS-2	100					4	6	7						16			2.63			89	72	47	12	
SS-3	89					6	8	9						29	63	38	2.60			100	99	96	92*	
SS-4	100					7	10	13																
SS-5	100		CH		Silty CLAY; grayish brown; 88-96% high plasticity clay with traces of fine sand; VERY STIFF TO HARD.	12	16	19																
SS-6	100					14	14	20						34	65	43	2.60			100	99	98	96*	
SS-7	89					13	18	24																
SS-8	100					10	11	14						47	61	35	2.60			98	98	96	88*	
SS-9	67		SP		Gravelly SAND; light gray; 19% non-plastic silt; 26% angular gravel; equal amount of medium to fine sand with traces of coarse sand; MEDIUM DENSE.	9	11	14						21			2.65			74	69	44	19	
SS-10	100					13	14	20						37	61	32	2.60			99	98	97	84*	
SS-11	100					13	14	16																
SS-12	100					16	12	15						37	53	27	2.61			96	95	94	75*	
SS-13	100		CH		Silty CLAY; grayish brown to brownish; 97% high plasticity clay; VERY STIFF.	9	11	14						43	60	33	2.60			100	99	97*		
SS-14	100				Sandy CLAY; grayish brown to brown; 11% fine sand; 85% high plasticity clay. VERY STIFF.	7	9	9						35	61	30	2.60			98	98	96	85*	
SS-15	67					10	11	12						41	58	21	2.61			100	95	87	79*	
SS-16	100					9	12	14						33	65	33	2.60			100	99	99	92*	
SS-17	67		SM		Silty SAND; grayish brown; 11% angular gravel; 39% non-plastic silt; 24% medium sand; 20% fine sand with traces of coarse sand; DENSE.	12	15	17						22			2.63			89	83	59	39	
SS-18	56					12	16	22						29	46	20	2.62			96	88	66	50*	
SS-19	78		CL		Sandy CLAY; grayish brown; 22% medium sand; 16% fine sand with traces of coarse sand and little amount of gravel; 50% low to medium plasticity clay; HARD.	15	19	19																
SS-20	67					15	19	20																

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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
 * - HYDROMETER ANALYSIS

図5-3-3 (114/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 24b**

OBJECT: Pasig-Marikina River Channel Imp. Proj.

GROUND ELEV. (MLLW = Zero Datum) + 12.475

DEPTH OF WATER: 2.50 m.

LOCATION: Left Side, Sta. Elena, Marikina

STATION NO.: 13 + 000

DATE MEASURED: 10 Jan. 2001

NO: BMLW-24 DATE DRILLED: 09 - 10 December 2000

WEATHER: FAIR

TIME MEASURED: 1:00 PM

COORDINATES: 1618534.650 N, 509944.500 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
SS-21	44			SW		Gravelly SAND; brown; 11% non-plastic silt; 40% sub-angular gravel; 18% coarse sand; 19% medium sand; 12% fine sand; VERY DENSE TO DENSE.	17	22	28	10	20	30	40	50	15				2.65		60	42	23	11	
SS-22	44						End of Borehole (22.00 m)	19	21	27															

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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 (115/221) 柱状図 (フェーズI実施分)