

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 11**ECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLLW = Zero Datum) **+ 10.415**DEPTH OF WATER: **2.00** m.ION: **Maybunga, Pasig City**STATION NO.: **3 + 150**DATE MEASURED: **21 Feb. 2001**WEATHER: **FAIR**TIME MEASURED: **1:00 PM**: **BM11-11** DATE DRILLED: **20 - 21 February 2001**COORDINATES: **1612581.251** N, **508715.655** E

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	20	30	40	50													
100			CH		Silty CLAY; brownish gray; 93-90% high plasticity silty clay; VERY SOFT.	1	0	0						70		75	51	2.61			93	98	97	93*		
89						1	0	0																		
67						1	0	0							61		67	45	2.60					100	98*	
67					Sandy CLAY; dark gray; 19% fine sand with shell and little of gravel and coarse to medium sand; 74% high plasticity clay. SOFT	8	1	1																		
78						1	0	2																		
89						2	1	2							40		62	39	2.62			97	95	93	74*	
100			GC		Clayey GRAVEL; dark gray; 62% angular gravel; 32% high plasticity clay; VERY LOOSE.	PRESSED							19	1.51	52	28	2.65	Cc 0.440 Pc 1.600	4.0	38	34	34	32			
90			CH		Sandy CLAY; dark gray; 85% high plasticity clay; 5% fine sand with traces of gravel and shell fragments; VERY SOFT to FIRM	PRESSED							47	1.62	53	29	2.60	Cc 0.280 Pc 1.700	4.57	91	91	90	85*			
89						3	2	3																		
90			SM		Silty SAND; dark gray; 41% coarse to fine sand with equal amount of non-plastic silt; 18% angular gravel & shell fragments; VERY LOOSE.	PRESSED							33	1.81			2.64	Cc 0.195 Pc 1.080		82	54	49	41			
56						5	9	10							29				2.63			97	93	90	45	
56			CH		Silty CLAY; brownish gray to brown; 97% high plasticity silty clay; FIRM To STIFF.	6	7	10																		
89						3	5	3																		
89						2	3	3							38		63	38	2.60					100	97*	
69						4	5	7																		
89						4	4	6																		
89						10	16	15							32		73	46	2.60					100	99	98*
89						4	15	17																		
100						50 26	13																			
89					End of Borehole (20.00 m)	8	11	12						32		67	35	2.60					99	98	97	96*

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

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

LEGEND:



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

Figure 5-3-3 (46/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MLL - 12

PROJECT: Pasig-Marikina River Channel Imp. Proj.GROUND ELEV.
(MLLW = Zero Datum) + 9.461DEPTH OF WATER: 2.00 m.LOCATION: Maybunga, Pasig CitySTATION NO.: 3 + 380DATE MEASURED: 23 Feb. 2001DATE DRILLED: 23 February 2001WEATHER: FAIRTIME MEASURED: 5:00 PMCOORDINATES: 1612798.540 N, 508778.869 E

BMLL-12 DATE BMLL-12																					
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				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN W, %	4	10	40	200	
									(N-VALUE)												
									10	20	30	40	50								
1	44		ML		Sandy CLAY; brownish gray; 51% low plasticity clay; 48% fine sand; VERY SOFT.	1	0	0						2.62				100	99	51*	
2	44		CH		Silty CLAY; brownish gray; 93% high plasticity silty clay with little amount of medium to fine sand. VERY SOFT to SOFT.	1	0	0													
3	62					2	1	2						2.61			100	99	97	93*	
4	67		SM		Silty SAND; dark gray; 33% medium sand; 30% fine sand with little amount of sub-angular gravel and coarse sand; 27% non-plastic silt; MEDIUM DENSE.	3	5	5													
5	67					5	6	2													
6	78					4	5	5						2.64			94	90	57	27	
S-1	100				Silty CLAY; dark gray; 91% high plasticity silty clay with little amount medium fine to fine sand; SOFT.	PRESSED								2.60	Cc 0.475	Pc 1.490		100	94	91*	
S-2	100				Sandy CLAY; dark gray; 73% high plasticity clay; 25% fine sand; SOFT.	PRESSED								2.61	Cc 0.455	Pc 2.130	100	99	98	73*	
S-7	89					1	2	2						2.61			100	99	97	94*	
S-3	100					PRESSED								2.61	Cc 0.525	Pc 0.840	99	97	96	91*	
S-8	89					5	5	5													
S-9	89		CH		Silty CLAY; dark gray; 91-94% high plasticity silty clay with little amount of fine sand; STIFF.	5	3	5						2.60			99	98	96	92*	
S-10	89					2	3	3													
S-11	89					3	4	4													
S-12	89					4	5	7						2.60			99	97	95	94*	
S-13	89					4	4	6													
S-14	67				Silty CLAY; dark gray; 95% high plasticity silty clay with traces of fine sand; VERY STIFF.	8	11	13													
S-15	67					8	11	13						2.60			99	99	97	95*	
S-16	89				Sandy CLAY; brown; 84% high plasticity clay; 12% fine sand with little amount of coarse to medium sand; VERY STIFF.	7	9	12													
S-17	89				End of Borehole (20.00 m)	6	9	10						2.61			100	98	96	84*	

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

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


















LEGEND:



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

Figure 5-3-3 (47/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL-13**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLLW = Zero Datum) **+ 8.986**DEPTH OF WATER: **3.80** m.LOCATION: **Rosario, Pasig City**STATION NO.: **3 + 650**DATE MEASURED: **24 Feb. 2001**D: **BM11-13** DATE DRILLED: **24 - 25 February 2001**WEATHER: **FAIR**TIME MEASURED: **1:00 PM**COORDINATES: **1613064.701** N, **508852.135** 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												
S-1	89		CL		Sandy CLAY; dark brownish gray; 59% low to medium plasticity clay w/ little amt. of gravel; 35% fine sand; VERY SOFT.	1	0	0						37		47	28	2.62			95	95	94	59*	
S-2	100		SM		Silty SAND; dark gray; 63% fine sand; 35% non-plastic silt; MEDIUM DENSE.	3	5	6						30				2.63				100	98	35	
S-3	89		CH		Silty CLAY; dark gray to dark brownish gray; 94% high plasticity silty clay with little amount sand and traces of shell and wood graments. VERY STIFF To HARD.	11	10	9																	
S-4	89						11	10	12																
S-5	100						11	13	19																
S-6	100					10	8	13						67		70	42	2.60			99	98	96	94*	
S-7	100					5	5	6																	
S-8	100					Silty CLAY; dark gray to dark brownish gray; 87% high plasticity silty clay with 10% fine to medium sand; contains shell and wood fragments. HARD to STIFF.	7	5	5																
S-9	100						6	6	5						84		64	37	2.60			99	97	92	87*
S-10	100						7	6	7																
S-11	89					Silty CLAY; dark gray to dark brownish gray; 99% high plasticity silty clay; traces of shell and wood fragments; STIFF.	6	5	6																
S-12	89						6	6	6						53		70	40	2.60					100	99*
S-13	89				Sandy CLAY; dark brownish gray; high plasticity clay; fine sand; VERY STIFF.	9	8	9																	
S-14	89					9	9	9																	
S-15	89				Silty CLAY; dark brownish gray; 95%, high plasticity silty clay with little amount of fine sand. STIFF.	7	5	6						41		69	39	2.60				100	99	95*	
S-16	89				Sandy CLAY; dark brownish gray; 82% high plasticity clay; 17% fine to medium sand; VERY STIFF.	9	7	9																	
S-17	89					8	8	8						36		54	30	2.61			100	99	93	82*	
					END OF BOREHOLE (17.00 m)																				



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

MACHINE: **ACKER ACE**
DRILLER: **P. MADERA**
SUPERVISOR: **M. VILLAFUERTE**

LEGEND:



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

Figure 5-3-3 (48/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 14**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLLW = Zero Datum) **+ 10.469**DEPTH OF WATER: **1.50** m.LOCATION: **Marikina River, River Bank Right**STATION NO.: **3 + 925**DATE MEASURED: **27 Feb. 2001**NO: **BMLL-14** DATE DRILLED: **19 - 27 March 2001**WEATHER: **FAIR**TIME MEASURED: **11:00 AM**COORDINATES: **1613323.905** N, **508895.026** E

NO. BMLL-17		DATE																								
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	20	30	40	50												
SS-1	67			CH		Sandy CLAY; dark gray; 89% high plasticity clay; 10% fine sand; VERY SOFT.	1	0	0						74		79	58	2.60			100	99	99	89	
SS-2	67						Silty CLAY; dark gray; 100% plasticity silty clay. VERY SOFT.	1	0	0																
SS-3	78			SM		Silty Gravelly SAND; dark gray; 47% fine to coarse sand; 40% sub-rounded gravel; 13% non-plastic silt; MEDIUM DENSE.	1	0	1						82		75	51	2.60						100	
SS-4	56						Silty CLAY; dark gray; 95% high plasticity silty clay with decayed wood. STIFF.	3	8	13						12				2.65			60	52	33	13
SS-5	100			CH		Sandy CLAY; brownish gray; coarse to fine sand with shell fragments; medium to high plasticity. FIRM.	5	5	6						66		75	43	2.60			100	99	96	95	
SS-6	100							3	4	3																
SS-7	100							3	3	5																
SS-8	89							3	4	4						56		66	37	2.60			100	99	98	95
SS-9	100						Silty CLAY; dark greenish gray to dark brownish gray; 92-95% high plasticity silty clay with traces of fine sand and decayed wood and shell fragments. FIRM To STIFF.	4	4	4																
SS-10	100							3	3	3																
SS-11	100							3	3	4						63		80	59	2.60			99	99	98	92
SS-12	100							3	4	5																
SS-13	100							4	4	5																
SS-14	100						Silty CLAY; brownish gray; 85% high plasticity silty clay; 12% fine to coarse sand with very little amount of gravel; VERY STIFF.	8	10	11						35		80	55	2.61			97	94	90	85
SS-15	NR			SP SM		No. Recovery	13	50/12																		
SS-16	78						Fine SAND; brownish gray; 72% fine sand and 19% medium sand; 9% non-plastic silt. DENSE.	11	12	14						30				2.63			100	81	9	
SS-17	78			CH		Silty CLAY; light creamy brown; 92% high plasticity silty clay with little amount of medium to fine sand. HARD.	16	24	26/12																	
SS-18	78							18	28	25																
SS-19	78							21	24	27						48		68	43	2.60			100	96	92	
END OF BOREHOLE (19.00 m)																										



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

Figure 5-3-3 (49/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 15**JECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLLW = Zero Datum) **+ 10.895**DEPTH OF WATER: **0.45** m.TION: **L. Bank, Rosario, Pasig**STATION NO.: **4 + 150**DATE MEASURED: **06 Jan. 2001**WEATHER: **FAIR**TIME MEASURED: **5:30 PM**D: **BMLL-15** DATE DRILLED: **06 January 2001**COORDINATES: **1613566.217** N, **508859.280** E

DATE DRILLED																								
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
									10	20	30	40	50											
S-1	44		SP		Silty Gravelly SAND; brown; 31% coarse to medium sand; 32% fine sand; 26% sub-rounded gravel; 11% non-plastic silty fines; well-graded; LOOSE.	3	3	5						12				2.65			74	58	43	11
S-2	78					2	3	5																
S-3	100					2	2	2						51	63	39	2.60						100	95*
S-4	100		CH		Silty CLAY; brown to brownish gray; 93-95% high plasticity clay; traces of fine sand; SOFT.	1	2	2										Cc 0.480 Pc 0.590						
DS-1	78					PRESSED								50	1.61	70	49	2.60				100	99	93
S-5	100					1	2	1																
S-6	78		ML		Sandy Gravelly SILT; brownish gray; 63% non-plastic silt; 23% sub-rounded gravel; 14% coarse to fine sand; STIFF.	2	3	9						36			2.64				77	73	69	63
SS-7	67					7	6	8																
S-8	100					1	1	2																
UDS-2	100					PRESSED								59	1.51	65	39	2.60		Cc 0.730 Pc 1.940	98	97	94	88
SS-9	100				Silty CLAY; brownish gray; traces of fine sand; 79-97% high plasticity clay; traces of gravel at depth 10-11 meters; SOFT to FIRM.	2	2	4						64		58	37	2.61			92	91	85	79
SS-10	100					3	3	3											Cc 0.475 Pc 1.630					
UDS-3	100					PRESSED								37	1.60	68	45	2.60			100	98	96	90
SS-11	100		CH			3	3	3																
SS-12	100					2	2	4						79		84	57	2.59			100	99	99	97
SS-13	100				Silty CLAY; brownish gray; high plasticity; STIFF.	5	6	6																
SS-14	100					5	5	8																
SS-15	100				Sandy Silty CLAY; grayish brown; 50% high plasticity clay; 49% fine to coarse sand; VERY STIFF.	7	8	10						31		53	31	2.62			99	91	77	50
SS-16	100					8	9	9																
SS-27	100				End of Borehole (20.00 m)	8	10	12																



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

MACHINE: **ACKER ACE**
J. DAWI
DRILLER: **D. BAYON**
M. ESTAURA
SUPERVISOR: **M. VILLAFUERTE**

LEGEND:



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

Figure 5-3-3 (50/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 16**JECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLW = Zero Datum) **+ 13.228**DEPTH OF WATER: **1.00** m.ATION: **L. Bank, Rosario, Pasig**STATION NO.: **4 + 320**DATE MEASURED: **12 Jan. 2001**WEATHER: **FAIR**TIME MEASURED: **12:00 NN**O: **BM11-16** DATE DRILLED: **06 January 2001**COORDINATES: **1613,740.100** N, **508,842.450** 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					LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN N, %	4	10	40	200
S-1	100		CH		Sandy CLAY ; light brown to brownish gray; 68% high plasticity clay; 24% fine to coarse sand; presence of gravel; SOFT .	1	1	2			34	51	29	2.61				92	87	79	68
S-2	22					1	1	2													
SS-3	22				Silty Gravelly SAND ; brownish gray; 24% coarse to medium sand; 26% fine sand; 28% angular gravel with 22% non-plastic silt; VERY LOOSE .	1	0	1			29			2.64				72	62	48	22
SS-4	44					1	1	1													
SS-5	56		SM			2	2	3													
SS-6	56				Silty Gravelly SAND ; brownish gray; 15% coarse sand; 25% medium sand; 26% fine sand; 18% non-plastic silt; 16% angular gravel; LOOSE to MEDIUM DENSE .	3	3	5			16			2.63				84	69	44	18
SS-7	56					3	4	5													
SS-8	56					4	5	6													
SS-9	89				Silty CLAY ; brownish gray to dark brown; 92% high plasticity silty clay; FIRM .	2	3	3			66	65	35	2.60				98	97	95	92
SS-10	89					3	3	4													
SS-11	78				Sandy CLAY ; brownish gray to brown; 78% high plasticity clay; 13% fine sand with little amount of medium sand; FIRM .	4	4	4													
SS-12	67					4	4	4			89	75	48	2.61				100	98	91	78
SS-13	89					6	7	7													
SS-14	100		CH		Sandy Gravelly CLAY ; brownish gray to brown; 82% high plasticity clay; 12% sub-angular gravel with little amount of fine sand; STIFF to VERY STIFF .	6	7	9													
SS-15	100					7	8	10			48	75	49	2.61				88	87	86	82
SS-16	100					7	9	7													
SS-17	100					7	9	10													
SS-18	100				Gravelly CLAY ; brownish gray to brown; 69% high plasticity clay; 27% sub-angular gravel; VERY STIFF .	7	9	10			51	57	36	2.61				73	72	71	69
SS-19	78					8	8	10													
SS-20	67																				
End of Borehole (20.00 m)						8	9	11													

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

MACHINE: **ACKER ACE**DRILLER: **D. ANDOYO**SUPERVISOR: **M. ESTAURA**SUPERVISOR: **M. VILLAFUERTE**

LEGEND:



SS - SPLIT SPOON SAMPLE

WS - WASH SAMPLE

UDS - UNDISTURBED SAMPLE

CR - CORE SAMPLE

W/ HYDROMETER ANALYSIS

Figure 5-3-3 (51/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 17**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLLW = Zero Datum) **+ 14.375**DEPTH OF WATER: **2.00** m.LOCATION: **Maybunga, Pasig City**STATION NO.: **4 + 800**DATE MEASURED: **11 Feb. 2001**PROJECT: **BMLL-17** DATE DRILLED: **10 February 2001**WEATHER: **FAIR**TIME MEASURED: **7:00 AM**COORDINATES: **1614198.100** N, **508780.100** E

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
1-1	67	CH		Sandy CLAY ; gray; 13% fine sand with little amount of med. sand; 82% high plasticity clay. SOFT .	1	1	2		60	65	45	2.61				100	99	95	82*
1-2	67	SW		Gravelly SAND ; dark gray; 27% sub-angular gravel; 34% coarse sand; 28% medium sand; 6% fine sand w/ traces of fine sand & little amt. of non-plastic silt. MEDIUM DENSE .	5	6	8		16			2.65				73	39	11	5
1-3	89			Sandy CLAY ; gray; 10% fine sand, 78% high plasticity clay; traces of medium sand; with little amount of gravel and coarse sand. SOFT TO FIRM .	4	3	5		34	61	38	2.62				97	94	88	78*
1-4	100				1	2	2												
1-5	100			Silty CLAY ; 97% high plasticity clay; with little amount of fine sand. SOFT .	1	1	2												
1-6	100			Gravelly CLAY ; 22% sub-rounded gravel; 71% high plasticity clay; with little amount of coarse to fine sand. VERY SOFT .	2	2	2		42		73	52	2.60					100	97*
S-1	100	CH			PRESSED				34	C 36 kPa 1.67	51	30	2.61	Cc 0.350 Pc 1.250		78	76	74	71*
3-7	89				4	4	4												
3-8	100				4	4	5												
3-9	100			Silty CLAY ; gray to dark gray; 97-99% high plasticity; traces of fine sand. FIRM TO STIFF .	4	5	5		45	69	49	2.60						100	99*
3-10	100				2	4	4												
3-11	100				5	5	5												
3-12	89				6	7	7		71	73	46	2.60				100	99	99	97*
3-13	89				7	7	8												
3-14	100			Silty CLAY ; gray to dark gray; 92% high plasticity with little amount of fine sand. HARD	8	22	28/5		59	80	57	2.60				100	99	92	92*
				END OF BOREHOLE (14.90 m)															

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

MACHINE: **ACKER ACE**DRILLER: **CASCAYAN**SUPERVISOR: **M. ESTAURA**

LEGEND:



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

Figure 5-3-3 (52/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 18**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLLW = Zero Datum) **+ 8.655**DEPTH OF WATER: **2.50** mLOCATION: **Maybunga, Pasig City**STATION NO.: **5 + 050**DATE MEASURED: **08 Feb. 2001**WEATHER: **FAIR**TIME MEASURED: **8:00 AM**NO: **BMLL-18** DATE DRILLED: **08 February 2001**COORDINATES: **1614442.650** N, **508762.750** E

SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
						15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %, %	4	10	40	200
SS-1	89		CH		Sandy CLAY; dark gray; 14% fine sand; 84% high plasticity clay. SOFT.	1	1	2		49		60	39	2.60			100	99	98	84
SS-2	89				Sandy CLAY; brownish gray; 14% sub-angular gravel, 26% fine sand; traces of medium sand; 49% high plasticity clay. STIFF TO HARD.	4	5	5												
SS-3	67					10	20	30		45		63	41	2.63			86	84	75	4
CR-1	94		Tf	58	Sandy TUFF; light gray; well cemented; slightly weathered; broken; VERY HARD.	CORING				12	1.64				133.75					
CR-2	97			52		CORING				14	1.66				158.12					
CR-3	93			93	Sandy TUFF; light gray to light brown; slightly to highly weathered; broken; HARD.	CORING				17	1.69				89.34					
CR-4	96		LT	96	Lapilli TUFF; brown; moderately weathered; HARD.	CORING				16	1.58				97.98					
CR-5	99			66		CORING				14	1.62				57.64					
CR-6	95			44	Lapilli TUFF; brownish, gray, slightly to moderately weathered; broken; HARD.	CORING				11	1.85				132.56					
CR-7	91		LT	48		CORING														
CR-8	45			25		CORING				15	1.72				127.24					
CR-9	82			0		CORING														
CR-10	71		LT	0	Lapilli TUFF; brownish gray; highly weathered; generally broken; HARD.	CORING														
CR-11	80			16		CORING														
CR-12	82			18		CORING				18	1.70				76.11	2.140				
					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. DAWI**
SUPERVISOR: **M. ESTAURA**

LEGEND:



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

Figure 5-3-3 (53/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 19**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLLW = Zero Datum) **+ 9.784**DEPTH OF WATER: **1.00** mLOCATION: **PBM Steel, Mangahan, Pasig City**STATION NO.: **5 + 400**DATE MEASURED: **06 Feb. 2001**Borehole NO: **BMLL-19** DATE DRILLED: **05 - 06 February 2001**WEATHER: **FAIR**TIME MEASURED: **8:00 AM**COORDINATES: **1614798.123 N, 508756.562 E**

NO: BMLL-13																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
-------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



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

MACHINE: **ACKER ACE**
DRILLER: **CASCAYAN**
SUPERVISOR: **M. ESTAURA**

LEGEND:



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

Figure 5-3-3 (54/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 20**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLLW = Zero Datum) **+ 15.025**DEPTH OF WATER: **0.60** mLOCATION: **L. Bank, Manggahan, Pasig**STATION NO.: **5 + 700**DATE MEASURED: **01 Feb. 2001**WEATHER: **FAIR**TIME MEASURED: **1:00 PM**NO: **BMLL-20** DATE DRILLED: **01 - 02 February 2001**COORDINATES: **1615014.410** N, **508871.221** E

SAMPLE NO.	RECOVERY (%)	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 SIEV			
						15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200
SS-1	100		SM		Silty SAND; gray; 1-11% coarse sand; 16-22% medium sand; 40-68% fine sand; 15-27% non-plastic silt; LOOSE to MEDIUM DENSE.	3	4	3		27				2.63			100	99	83	1
SS-2	100					6	7	7		25				2.63			100	89	67	2
SS-3	100				Silty Gravelly SAND; gray; 26% sub-angular gravel; 11% coarse sand; 25% medium sand; 19% fine sand; 19% non-plastic silt; DENSE.	12	17	28		37				2.64			74	63	38	1
CR-1	35		TS	0	Tuffaceous SANDSTONE; gray; medium to fine-grained; moderately weathered; broken; Moderately HARD.	CORING														
CR-2	56			20		CORING									95.069	4.228				
CR-3	60			0		CORING														
CR-4	78			55		CORING									99.529	4.571				
CR-5	50		LT	0	Lapilli TUFF; light gray; abundant lapilli deposits; moderately to highly weathered; broken; Moderately HARD.	CORING														
CR-6	48			0		CORING														
CR-7	68			12		CORING									65.321	3.125				
CR-8	28			0		CORING														
CR-9	22		TS	0	Tuffaceous SANDSTONE; gray; medium to fine-grained; moderately weathered; broken; Moderately HARD.	CORING														
CR-10	72			11		CORING									106.40	4.741				
CR-11	82			73		CORING									109.75	4.760				
CR-12	97			50		CORING									109.55	4.690				
CR-13	60			0	End of Borehole (16.00 m)	CORING														



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

MACHINE: **ACKER ACE**
DRILLER: **R. CASCAYAN JEMENEZ**
SUPERVISOR: **M. ESTAURA M. VILLAFUERTE**

LEGEND:



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

Figure 5-3-3 (55/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 21**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLLW = Zero Datum) **+ 16.185**DEPTH OF WATER: **1.00** mLOCATION: **Litton Mills, Mangahan, Pasig City**STATION NO.: **5 + 900**DATE MEASURED: **05 Feb. 2001**BMLL-21 DATE DRILLED: **05 - 06 February 2001**WEATHER: **FAIR**TIME MEASURED: **8:00 AM**COORDINATES: **1615003.100 N, 508988.250 E**

SAMPLE NO.	RECOVERY (%)	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 SIEV			
						15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200
SS-1	100		SM		Silty SAND; brownish gray; 42% non-plastic silt; 25% med. sand; 28% fine sand w/little amt. of coarse sand and gravel. V. LOOSE.	2	1	2		32				2.62			97	95	70	4
SS-2	100		CH		Sandy CLAY; brownish gray; 20% fine sand; 78% high plasticity clay. FIRM.	3	2	3		55		65	43	2.61			100	99	98	7
SS-3	89		SM		Silty SAND; grayish brown; 35% non-plastic silt; 58% fine sand with little amount of coarse and medium sand; MEDIUM DENSE.	4	4	5		42				2.63			98	97	93	5
SS-4	75				Silty SAND; grayish brown; 27% non-plastic silt; 36% medium sand; 21% fine sand with traces of coarse sand and gravel; VERY DENSE.	20	31	19/10												
SS-5	71					25	29	21/12		27				2.63			93	84	48	5
CR-1	89		Tf	78	Silty TUFF; light gray; well cemented; fresh to slightly weathered; HARD.	CORING				22	1.75				90.302	3.144				
CR-2	70		ST	23	Sandstone; gray slightly to moderately weathered; broken; HARD.	CORING				14	1.75				62.174	1.953				
CR-3	52			32	Sandstone; light brown; slightly to moderately weathered; broken; SOFT.	CORING				34	1.48				12.317	0.804				
CR-4	65			54		CORING														
CR-5	60			0	Sandstone; yellowish brown; highly to to completely weathered; generally broken; SOFT.	CORING														
CR-6	62			44	Sandstone; light gray; slightly weathered to fresh; well cemented; broken; HARD.	CORING				13	1.84				87.316	2.756				
CR-7	60			60		CORING				16	1.73				77.722	2.191				
CR-8	53			44	Tuffaceous Sandstone; light gray; fresh to slightly weathered; broken; HARD.	CORING				22	1.72				102.77	2.688				
CR-9	52			25		CORING				21	1.73				116.979	3.735				
CR-10	57			39	Sandstone; light gray; slightly weathered broken; HARD.	CORING				12	1.82				72.876	1.882				
					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. DAWI**
SUPERVISOR: **M. ESTAURA**

LEGEND:



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

Figure 5-3-3 (56/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 22**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLLW = Zero Datum) **+ 17.405**DEPTH OF WATER: **3.10**LOCATION: **L. Bank, PBM Steel Corp., Pasig City**STATION NO.: **6 + 150**DATE MEASURED: **30 Jan. 2001**BOREHOLE NO: **BMML-22** DATE DRILLED: **30 - 31 January 2001**WEATHER: **FAIR**TIME MEASURED: **12:00 NN**COORDINATES: **1614859.750** N, **509215.500** E

NO: BMLL-22		DATE																							
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 N, %	4	10	40	200
SS-1	89			GM		Silty Sandy GRAVEL; gray; 41% angular gravel; 41% fine to coarse sand; 18% non-plastic silt; MEDIUM DENSE.	10	9	6						28			2.66			59	45	29		
SS-2	89			CH		Silty CLAY; grayish brown; 85-97% high plasticity clay; with traces of gravel and medium to fine sand; VERY STIFF.	9	12	13																
SS-3	89				7		7	10							55	69	46	2.60				100	99		
SS-4	89				10		11	12																	
SS-5	89				7		9	10																	
SS-6	89				12		12	14							30	58	30	2.60				96	95	93	
SS-7	89				9		10	11							33	61	37	2.60				97	97	95	
SS-8	89				12		13	9																	
SS-9	100				7		10	12							26	70	48	2.60				97	93	87	
SS-10	89				12		13	13																	
SS-11	100				11		17	19							30	60	35	2.61				77	71	63	
SS-12	100				16	21	30							42	49	27	2.61				100	97	82		
SS-13	67				25	35	15							46	46	20	2.61				100	99	86		
SS-14	56				26	50	15																		
SS-15	63				25	22	5							45	53	23	2.61				100	99	95		
							End of Borehole (14.90 m)																		



**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
M. VILLAFUERTE**

LEGEND:



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

Figure 5-3-3 (57/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 23**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLLW = Zero Datum) **+ 13.369**DEPTH OF WATER: **3.10**LOCATION: **L. Bank, Manggahan, Pasig City**STATION NO.: **6 + 650**DATE MEASURED: **26 Jan. 2001**H NO: **BMLL-23** DATE DRILLED: **26 - 27 January 2001**WEATHER: **FAIR**TIME MEASURED: **9:00 AM**COORDINATES: **1614782.100** N, **509593.250**

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				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40
SS-1	89		CH		Silty CLAY; gray; 97% high plasticity clay; FIRM.	2	2	3		37	73	49	2.60				100	99	98
SS-2	89				Gravelly Sandy CLAY; gray; 22% sub-angular gravel; 47% high plasticity clay; 31% coarse to fine sand; SOFT To FIRM.	3	2	1											
SS-3	89					5	3	3		52	59	33	2.63				78	62	52
SS-4	100				Sandy CLAY; dark gray to gray; 69-90% high plasticity clay; 4-11% medium sand; 6-14% fine sand; with little amount of coarse sand; FIRM TO STIFF.	2	3	4		68	68	43	2.60				100	96	
SS-5	100					3	4	4		55	52	30	2.61				100	99	92
SS-6	100					3	4	5		52	62	41	2.61				99	94	83
SS-7	89					4	4	6											
SS-8	78		SM		Silty Gravelly SAND; brown; 66% fine to coarse sand with 21% sub-angular gravel and 13% non-plastic fines; MEDIUM DENSE to DENSE.	9	12	14											
SS-9	78					14	23	17		16			2.64				79	64	38
SS-10	89		CH		Silty CLAY; light brown; 96% high plasticity silty clay with traces of fine sand; VERY STIFF.	7	8	8											
SS-11	89					7	10	9		51	71	40	2.60				100	99	98
SS-12	89					6	9	10											
SS-13	89				Sandy CLAY; brown; 82% high plasticity clay; 16% fine sand; HARD.	8	9	12		37	71	50	2.60				100	99	
SS-14	89					16	22	24											
SS-15	89					12	19	21		31	53	30	2.61				100	98	
					End of Borehole (15.00 m)														
SS-16																			
SS-17																			
SS-18																			
SS-19																			
SS-20																			



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**
M. VILLAFUERTE

LEGEND:



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

Figure 5-3-3 (58/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MLL - 24

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**
 LOCATION: **L. Bank, Santolan, Pasig**
 NO: **BMLL-24** DATE DRILLED: **07 - 08 January 2001**

GROUND ELEV.
 (MLLW = Zero Datum) **+ 14.915**
 STATION NO.: **8 + 450**
 WEATHER: **FAIR**

DEPTH OF WATER: **1.00** m.
 DATE MEASURED: **08 Jan. 2001**
 TIME MEASURED: **5:00 PM**

COORDINATES: **1616149.500** N, **508510.250** E

NO. BMLL-24 DATE																									
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	20	30	40	50											
SS-1	89			CH		Silty CLAY; brown; traces of fine sand; 91% high plasticity silty clay; SOFT.	1	1	1						43	59	35	2.60					100	99	91*
SS-2	89			SM		Silty SAND; gray, 42% non-plastic silt; 49% fine sand with little amount of gravel and coarse to medium sand; VERY LOOSE.	1	1	2						46			2.62				97	94	91	42
SS-3	89					Silty Gravelly SAND; gray; 14% non-plastic silt; 27% sub-rounded gravel; 11% medium sand; 45% fine sand with little amount of coarse sand; MEDIUM DENSE.	2	3	10						32			2.64				73	70	59	14
SS-4	89						5	8	12																
SS-5	100			CH		Silty CLAY; light gray; 81% high plasticity silty clay with traces of gravel and coarse to fine sand; VERY STIFF.	12	13	15						27	70	36	2.61				91	88	85	81*
SS-6	100						15	18	20						31	64	39	2.60					100	99	85*
SS-7	67					Sandy CLAY; brown; 2-14% fine sand; 85-97% high plasticity clay; HARD.	18	20	27																
SS-8	89						20	21	22																
SS-9	100						20	22	25						33	66	35	2.60				100	99	99	97
SS-10	100						23	24	26						56	66	36	2.60				100	98	97	96
SS-11	100						20	22	28																
SS-12	100					Silty CLAY; light to dark gray; little amount of coarse to fine sand; 87-96% high plasticity silty clay; HARD.	25	24	23						44	63	35	2.60				100	97	90	87
SS-13	100						22	23	25						43	61	31	2.60				100	98	97	92
SS-14	100						25	24	26																
SS-15	100						22	23	25						37	73	40	2.60				98	95	92	88
SS-16	100					24	23	27																	
						End of Borehole (16.00 m)																			



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

MACHINE: **ACKER ACE**
 DRILLER: **R. CASCAYAN JIMENEZ**
 SUPERVISOR: **M. ESTAURA M. VILLAFUERTE**

LEGEND:



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

Figure 5-3-3 (59/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MLL - 25

PROJECT: Pasig-Marikina River Channel Imp. Proj.

GROUND ELEV.
(MLLW = Zero Datum) + 13.980

DEPTH OF WATER: 1.50

LOCATION: L. Bank, Santolan, Pasig

STATION NO.: 8 + 750

DATE MEASURED: 28 Mar. 2007

WEATHER: FAIR

TIME MEASURED: 3:00 PM

BH NO: BMLL-25 **DATE DRILLED:** 06 January 2001

COORDINATES: 1616373.100 N, 508388.750

H NO: BMLL-25										DATE															
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 M, %	4	10	40	
										10	20	30	40	50											
1	SS-1	100		CH		Sandy CLAY; brown; 32% fine sand; 66% high plasticity clay; SOFT.	1	2	2						30		54	32	2.61			100	99	98	
2	SS-2	100					2	1	2																
3	SS-3	89		SC		Clayey SAND; gray to grayish brown; 13% gravel; 10% coarse sand; 26% medium sand; 16% fine sand; 35% high plasticity clay; LOOSE to DENSE.	3	2	2						31		55	32	2.63			87	77	51	
4	SS-4	100					5	7	7																
5	SS-5	100					19	21	23																
6	SS-6	67		SM		Silty SAND; grayish brown to brown; 61% fine sand with traces of coarse to medium sand; 23% non-plastic silty fines; DENSE.	19	20	20						30				2.63			98	93	84	
7	SS-7	89					20	20	22																
8	SS-8	89					20	22	24																
9	SS-9	67		SC		Clayey SAND; brown; 54% fine sand with little amount of medium sand; 42% high plasticity clay; DENSE.	22	23	25						23		52	27	2.62			100	96		
10	SS-10	78					22	23	24																
11	SS-11	100					24	24	26																
12	SS-12	82				Silty CLAY; brown; 97% high plasticity clay; HARD.	18	19	28						33		62	42	2.60			100	98		
13	SS-13	89		CH			28	28	22																
14	SS-14	89				Sandy CLAY; brownish gray; 32% fine sand; 67% high plasticity clay; HARD.	26	26	24																
15	SS-15	78					32	32	18/5						25		57	36	2.61			100	99		
16						End of Borehole (14.90 m)																			
17																									
18																									
19																									
20																									


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

MACHINE: ACKER ACE
DRILLER: R. CASCAYAN JEMENEZ
SUPERVISOR: M. ESTAURA M. VILLAFUERTE

LEGEND:

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

Figure 5-3-3 (60/221) BORING LOGS (PHASE I)