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

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Ugong Sur, Pasig City
BH NO: BMRL-9 **DATE DRILLED:** 28 Feb. - 01 March 2001
GROUND ELEV. (MLLW = Zero Datum) + 15.668
STATION NO.: 2 + 365
WEATHER: FAIR
COORDINATES: 1612,013.750 N, 508,165.100 E
DEPTH OF WATER: 2.20 m.
DATE MEASURED: 28 Feb. 2001
TIME MEASURED: 8:00 AM

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST STRENGTH kg/cm²	STRAIN %	SIEVE ANALYSIS % PASSING SIEVE 4	10	40	200
1	SS-1	78		SM		Silty SAND; brownish gray; 36% non-plastic silt; 59% fine sand with traces of medium sand; SOFT.	1	1	3		42				2.63				100	95	36
2	SS-2	78					1	1	2												
3	SS-3	89				Silty SAND; grayish brown; 14% non-plastic silt; 25% medium sand; 55% fine sand; with little amount of gravel and coarse sand; VERY LOOSE TO LOOSE.	1	2	1		29				2.63			97	94	69	14
4	SS-4	100					3	4	5												
5	SS-5	100					1	1	2												
6	SS-6	100		CH		Sandy CLAY; gray; 10% fine sand; 90% high plasticity organic clay; SOFT TO VERY SOFT.	2	1	1		47		82	40	2.60					100	90*
7	SS-7	100					1	1	2												
8	SS-8	100					1	1	0												
9	SS-9	100		CL		Sandy CLAY; gray; 47% fine sand; 53% medium plasticity clay; STIFF.	2	5	6		30		43	22	2.62					100	53*
10	SS-10	100					5	5	7												
11	SS-11	100		ML		Sandy SILT; grayish brown; 10% medium sand; 52% non-plastic silt; STIFF TO VERY STIFF.	6	6	7		25				2.82				100	90	52
12	SS-12	100					7	7	12												
13	SS-13	100		CH		Silty CLAY; dark gray; 92% high plasticity silty clay; traces of fine sand; STIFF.	8	6	5												
14	SS-14	100					5	6	6												
15	SS-15	100					4	6	7		49		66	42	2.60					100	92*
16	SS-16	100					4	5	6												
17	SS-17	100				Sandy CLAY; yellowish gray; 15% fine sand with traces of medium sand; 72% high plasticity clay; VERY STIFF TO HARD.	8	12	13												
18	SS-18	100					13	17	22		50		57	29	2.61			98	96	87	72*
19	SS-19	100				Silty CLAY; light brown; 96% high plasticity silty clay with little amount of fine sand; VERY STIFF.	9	13	14												
20	SS-20	100				End of Borehole (20.00 m)	12	12	10		37		72	42	2.60				100	99	96*

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

Figure 5-3-3 (121/221) BORING LOGS (PHASEI)

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

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Ugong Sur, Pasig City
BH NO: BMRL-10 DATE DRILLED: 20 February 2001

GROUND ELEV. (MLLW = Zero Datum) + 12.985
STATION NO.: 2 + 765.00
WEATHER: FAIR

DEPTH OF WATER: 2.80 m.
DATE MEASURED: 20 Feb. 2001
TIME MEASURED: 4:00 PM

COORDINATES: 1612,287.100 N, 508,446.250 E

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST STRENGTH kg/cm²	STRAIN %	SIEVE ANALYSIS % PASSING SIEVE 4	10	40	200
1	SS-1	100		CH		Sandy CLAY; grayish brown; 22% fine sand; traces of medium sand; with little amount of gravel and coarse sand; 64% high plasticity clay; VERY SOFT.	1	0	0		44		75	54	2.61			97	95	86	64*
2	SS-2	100					1	1	2												
3	SS-3	100		SM		Silty SAND; brownish gray; 38% non-plastic silt; 58% fine sand; with little amount of coarse and medium sand; VERY LOOSE TO MEDIUM DENSE.	2	3	2		29				2.63			100	98	86	38
4	SS-4	100					1	2	2												
5	SS-5	100					6	6	6												
6	SS-6	100		CH		Sandy CLAY; gray; 10% fine sand; 86% high plasticity clay; SOFT TO FIRM.	2	1	1		37		68	44	2.60			99	97	96	86*
7	SS-7	100					1	2	2												
8	SS-8	100					2	3	5												
9	SS-9	100				Silty CLAY; dark gray; 92% high plasticity silty clay; with little amount of coarse to fine sand and wood fragments; FIRM.	1	3	3		56		74	42	2.60			99	97	95	92*
10	SS-10	100				Sandy CLAY; gray to brownish gray; 29% fine sand; 70% high plasticity clay; FIRM TO STIFF.	2	3	4												
11	SS-11	89					3	4	4												
12	SS-12	100					3	3	5		24		58	38	2.61				100	99	70*
13	SS-13	100					5	6	8												
14	SS-14	100				Silty CLAY; dark gray to brown; 88-98% high plasticity silty clay; with little amount of fine sand and sub-angular gravel; traces of shell and wood fragments; FIRM TO HARD.	4	4	5												
15	SS-15	100					3	3	4		34		74	51	2.60					100	94*
16	SS-16	100					2	2	5												
17	SS-17	100					2	3	5												
18	SS-18	100					5	7	8		33		69	41	2.61			92	92	90	88*
19	SS-19	100					7	8	9												
20	SS-20	100				End of Borehole (20.00 m)	17	24	29		22		73	51	2.60					100	93*

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SUPERVISOR: M. ESTAURA

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

Figure 5-3-3 (122/221) BORING LOGS (PHASEI)

SHEET 1 OF 1

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRL - 11

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Ugong Norte, Pasig City
BH NO: BMRL-11 DATE DRILLED: 21 February 2001

GROUND ELEV. (MLLW = Zero Datum) + 11.656
STATION NO.: 3 + 150
WEATHER: FAIR

DEPTH OF WATER: 1.20 m.
DATE MEASURED: 21 Feb. 2001
TIME MEASURED: 5:00 PM

COORDINATES: 1612,605.100 N, 508,649.100 E

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST STRENGTH kg/cm²	STRAIN %	SIEVE ANALYSIS % PASSING SIEVE 4	10	40	200
1	SS-1	100		CH		Silty CLAY; dark gray; 87% high plastic clay with little amount of medium sand; with traces of fine sand; VERY SOFT TO SOFT.	1	1	0		69		69	45	2.60			100	99	96	87*
2	SS-2	100					1	1	2												
3	SS-3	100		SM		Silty SAND; dark gray; 22% non-plastic silt; 14% sub-rounded gravel; 17% coarse sand; 23% medium sand; 24% fine sand; STIFF TO SOFT.	4	5	7		22				2.64			86	69	46	22
4	SS-4	100					1	2	1												
5	SS-5	67		GW		Sandy GRAVEL; dark gray; with little amount of non-plastic silt; 13% coarse sand; with traces of medium sand; with little amount of fine sand; 72% sub-rounded gravel; DENSE TO MEDIUM DENSE.	15	17	19		8				2.66			28	15	6	2
6	SS-6	89					5	5	9												
7	SS-7	78		CH		Silty CLAY; dark gray to dark brown gray; 93% high plasticity clay; with little amount of coarse to fine sand; VERY STIFF TO SOFT.	8	11	16												
8	SS-8	100					5	6	6												
9	SS-9	100					1	2	2		59		70	40	2.80			100	98	95	93*
10	SS-10	89					2	2	2												
11	SS-11	100					1	2	2												
12	SS-12	89				Sandy CLAY; dark gray to dark brown gray; with little amount of medium sand; 12-33% fine sand; 65-88% high plasticity clay; STIFF.	2	3	3		27		59	37	2.61				100	96	65*
13	SS-13	100					2	3	4												
14	SS-14	89					4	4	6												
15	SS-15	100					2	4	5		29		66	45	2.80					100	88*
16	SS-16	89					3	4	3												
17	SS-17	100		CH		Silty CLAY; dark brown gray; 95-98% high plasticity clay; with little amount of medium sand and fine sand; STIFF TO VERY STIFF.	5	5	7												
18	SS-18	89					8	10	13		25		68	46	2.80					100	88*
19	SS-19	100					4	5	5												
20	SS-20	100				End of Borehole (20.00 m)	6	8	10		27		65	42	2.60			100	99	96	95*

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

Figure 5-3-3 (123/221) BORING LOGS (PHASEI)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRL - 12

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Ugong Norte, Pasig City
BH NO: BMRL-12 DATE DRILLED: 23 - 24 February 2001

GROUND ELEV. (MLLW = Zero Datum) + 12.424
STATION NO.: 3 + 380
WEATHER: FAIR

DEPTH OF WATER: 1.65 m.
DATE MEASURED: 24 Feb. 2001
TIME MEASURED: 10:20 AM
COORDINATES: 1612,818.750 N, 508,718.100 E

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST STRENGTH kg/cm²	STRAIN ε, %	SIEVE ANALYSIS % PASSING SIEVE 4	10	40	200
1	SS-1	100				Sandy CLAY; dark gray; 35% fine sand; 64% high plasticity clay; VERY SOFT.	1	1	0		53		69	49	2.61				100	89	64
2	SS-2	100					1	0	1												
3	SS-3	100				Sandy CLAY; dark gray to dark brownish Gray; 11% sub-angular gravel; traces of coarse sand; 15% medium sand; 19% fine sand; 47% high plasticity clay; SOFT.	1	2	1		47		58	35	2.63			89	81	66	47
4	SS-4	100					1	2	2												
5	SS-5	100					1	2	2												
6	SS-6	100				Sandy CLAY; dark gray; 15% gravel; traces of wood fragment; 10% fine sand; 73% high plasticity clay; FIRM.	2	2	2		68		65	43	2.62			85	84	83	73
7	SS-7	100					2	2	3												
8	SS-8	100		CH		Sandy CLAY; dark gray; with little amount of medium sand; 32% fine sand; 66% high plasticity clay; STIFF.	1	2	4												
9	SS-9	100					2	3	6		37				2.61				100	98	66
10	SS-10	100					1	2	4		76		84	56	2.60			100	99	96	93
11	SS-11	100					3	3	4												
12	SS-12	100					2	3	4		45		47	22	2.60				100	99	96
13	SS-13	100					4	3	3												
14	SS-14	100				Silty CLAY; dark gray to brownish gray; 93-99% high plasticity clay; traces of fine sand; FIRM TO VERY STIFF.	2	4	4												
15	SS-15	100					4	5	6		54		52	31	2.60			100	99	99	99
16	SS-16	100					5	7	9												
17	SS-17	100					9	10	14												
18	SS-18	100					10	11	13		39		53	33	2.60					100	99
19	SS-19	100					10	11	11												
20	SS-20	100				End of Borehole (20.00 m)	10	13	11		35		61	37	2.60			99	98	97	98

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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

Figure 5-3-3 (124/221) BORING LOGS (PHASEI)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS *MRL - 13*

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Ugong Norte, Pasig City
BH NO: BMRL-13 DATE DRILLED: 24 - 26 February 2001

GROUND ELEV. (MLLW = Zero Datum) + 12.845
STATION NO.: 3 + 650
WEATHER: FAIR
COORDINATES: 1613,084.500 N, 508,789.100 E

DEPTH OF WATER: 1.00 m.
DATE MEASURED: 24 Feb. 2001
TIME MEASURED: 10:00 AM

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST STRENGTH kg/cm²	STRAIN %	SIEVE ANALYSIS % PASSING SIEVE 4	10	40	200
1	SS-1	67		SP		Fine to Medium SAND; gray to dark greenish gray; with traces of coarse sand; 5-11% medium sand; 79-93% fine sand; with little amount of non-plastic silt; VERY LOOSE.	1	0	0		35				2.63			89	83	82	3
2	SS-2	67					1	0	0												
3	SS-3	67					1	0	0		40				2.63			100	99	94	1
4	SS-4	89					2	1	1												
5	SS-5	67		GC		Clayey GRAVEL; brownish gray to gray; 38% high plasticity clay; 11% coarse sand; with little amount of medium sand; traces of fine sand; 40% sub-angular gravel; VERY SOFT TO VERY STIFF.	1	1	0												
6	SS-6	60					1	0	0		28		64	42	2.64			60	49	45	36
7	SS-7	78					1	0	4												
8	SS-8	78					4	5	10												
9	SS-9	88		CH		Silty CLAY; dark gray to dark brownish gray; 96-98% high plasticity clay; with little amount of fine sand; STIFF.	6	3	5		48		61	38	2.60				100	99	96*
10	SS-10	89					8	2	2												
11	SS-11	89					2	3	3												
12	SS-12	89					2	3	3		60		65	44	2.60			100	99	99	98*
13	SS-13	67					3	1	1												
14	SS-14	78					3	1	1												
15	SS-15	89					5	7	7		38		59	37	2.60				100	99	98*
16	SS-16	100		SW		Gravelly SAND; dark gray; 13% sub-rounded gravel; with little amount of non-plastic silt; 22% coarse sand; 32% medium sand; 31% fine sand; VERY DENSE.	12	50/10			34				2.64			87	65	33	2
	SS-17	100					50/11														
17						End of Borehole (16.66 m)																
18																					
19																					
20																					

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

Figure 5-3-3 (125/221) BORING LOGS (PHASEI)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRL - 14

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Rosario, Pasig
BH NO: BMRL-14 DATE DRILLED: 02 - 03 March 2001
GROUND ELEV. (MLLW = Zero Datum) + 15.412
STATION NO.: 3 + 925
WEATHER: FAIR
DEPTH OF WATER: 2.50 m.
DATE MEASURED: 02 Mar. 2001
TIME MEASURED: 8:00 AM
COORDINATES: 1613,334.250 N, 508,823.250 E

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST STRENGTH kg/cm²	STRAIN %	SIEVE ANALYSIS % PASSING SIEVE 4	10	40	200
1	SS-1	33		SM		Silty SAND; grayish brown; 25% non-plastic silt; with little amount of medium sand; 72% fine sand; VERY SOFT.	1	0	1		40				2.63				100	97	25
2	SS-2	100		CH		Sandy CLAY; greenish gray to gray; little amount of medium sand; 21% fine sand; 76% high plasticity clay; SOFT TO STIFF.	2	1	2												
3	SS-3	100					3	6	4		47		56	33	2.61				100	97	76*
4	SS-4	89		SM		Silty SAND; gray; 21% non-plastic silt; 13% medium sand; 66% fine sand; STIFF.	2	3	6		30				2.63				100	87	21
5	SS-5	100		CH		Sandy CLAY; dark brown gray; 13% fine sand; 87% high plasticity clay; FIRM.	1	2	2							Cc 0.290	Pc 1.590				
6	UDS-1	100					PRESSED				34	1.73	73	48	2.61	0.978	4.571			100	87*
7	SS-6	100				Silty CLAY; dark brown gray; 92 - 96% high plasticity clay; with little amount of coarse sand and medium sand; traces of fine sand; FIRM.	2	1	3		50		55	30	2.61			100	97	93	90*
8	UDS-2	100					PRESSED				50	1.73	64	40	2.60	Cc 0.585 1.608	Pc 1.776 4.000	99	99	98	82*
9	SS-7	100					2	2	3							Cc 0.390	Pc 0.900				
10	UDS-3	100					PRESSED				50	1.73	69	47	2.61	0.900	16.571	100	99	99	96*
11	SS-8	100					3	3	4												
12	SS-9	100				Sandy CLAY; dark brown-gray to brown; with little amount of coarse sand and medium sand; 13-15% fine sand; 82-84% high plasticity clay; STIFF TO VERY STIFF.	5	6	7		35		61	40	2.60				100	99	84*
13	SS-10	100					4	7	8												
14	SS-11	89					25	11	12												
15	SS-12	89					5	5	8		31		77	57	2.61			100	98	95	82*
16	SS-13	89		CL		Clayey SAND; brown; 46% low plasticity; with little amount of gravel; traces of coarse sand; 17% medium sand; 26% fine sand; VERY STIFF.	5	7	8												
17	SS-14	89					8	10	12												
18	SS-15	89					8	12	16		21		45	25	2.83			96	89	72	48
19	SS-16	89		CH		Silty CLAY; brown; 88% high plasticity clay; with little amount of gravel and coarse sand and medium sand; traces of fine sand; VERY STIFF.	10	13	16												
20	SS-17	89				End of Borehole (20.00 m)	10	13	17		38		62	37	2.61			97	96	84	66*

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

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

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

Figure 5-3-3 (126/221) BORING LOGS (PHASEI)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRL - 15

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Rosario Bridge, Rosario Pasig
BH NO: BMRL-15 DATE DRILLED: 16 Feb. - 01 March 2001

GROUND ELEV. (MLLW = Zero Datum) + 15.614
STATION NO.: 4 + 150
WEATHER: FAIR

DEPTH OF WATER: 2.50 m.
DATE MEASURED: 01 Mar. 2001
TIME MEASURED: 12:00 PM

COORDINATES: 1613,549.990 N, 508,788.750 E

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST STRENGTH kg/cm²	STRAIN %	SIEVE ANALYSIS % PASSING SIEVE 4	10	40	200
1	SS-1	33		CL		Clayey SAND; grayish brown; 41% low plasticity clay; with little amount of medium sand; 54% fine sand; VERY SOFT.	1	0	0												
2	SS-2	89					1	0	1		58		43	14	2.63			99	98	95	41
3	UDS-1	100		CH		Silty CLAY; dark brownish gray; 90-91% high plasticity clay; with little amount of coarse sand and medium sand; traces of fine sand; SOFT TO FIRM.	PRESSED				73	1.57	72	47	2.61	Cc 0.580 Pc 0.440 0.125	5.714	98	97	95	90*
4	SS-3	89					1	2	2		69		70	39	2.60				100	99	91*
5	SS-4	100					1	2	4												
6	SS-5	33		SM		Silty SAND; gray; 14% non-plastic silt; traces of sub-angular gravel; 40% coarse sand; 28% medium sand; 13% fine sand; VERY STIFF.	10	11	13		13				2.64			95	55	27	14
7	SS-6	100		CH		Silty CLAY; gray; 91% high plasticity clay; with little amount of medium sand and fine sand; FIRM.	3	3	5		45		62	41	2.60			100	99	98	91*
8	SS-7	44		SM		Silty SAND; gray; 14% non-plastic silt; 26% coarse sand; 40% medium sand; 20% fine sand; VERY STIFF.	5	7	9		15				2.63			100	74	34	14
9	SS-8	100		CH		Sandy CLAY; gray; 11-27% fine sand; 73-88% medium to high plasticity clay; FIRM.	2	2	2		48		53	33	2.60			100	99	99	88*
10	UDS-2	100					PRESSED				42	1.69	49	28	2.61	Cc 0.455 Pc 2.000 2.084	5.143			100	73*
11	SS-9	67		SM		Silty SAND; brownish gray to dark gray; 12% non-plastic silt; 20% sub-rounded gravel; with traces of coarse sand; 45% medium sand; 16% fine sand; STIFF TO FIRM.	9	9	4		25				2.64			80	73	28	12
12	SS-10	100					2	2	3												
13	SS-11	89					5	4	4												
14	SS-12	100		CH		Silty CLAY; gray to brown; 93-99% high plasticity clay; with little amount of gravel and coarse to fine sand; STIFF TO VERY STIFF.	9	12	10		39		68	37	2.61			97	95	94	93*
15	SS-13	100					9	11	8												
16	SS-14	100					7	9	13												
17	SS-15	100					8	8	8		45		70	37	2.60					100	99*
18	SS-16	100					7	8	8												
19	SS-17	100					6	7	8												
20	SS-18	100				End of Borehole (20.00 m)	4	5	8		54		69	38	2.60				2	100	99*

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

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

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

Figure 5-3-3 (127/221) BORING LOGS (PHASEI)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRL - 16

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Ugong Norte, Pasig City
BH NO: BMRL-16 DATE DRILLED: 11 - 12 February 2001
GROUND ELEV. (MLLW = Zero Datum) + 15.865
STATION NO.: 4 + 320
WEATHER: FAIR
COORDINATES: 1613,715.100 N, 508,752.850 E
DEPTH OF WATER: 2.00 m.
DATE MEASURED: 12 Feb. 2001
TIME MEASURED: 11:30 AM

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS: LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST: STRENGTH kg/cm²	STRAIN %	SIEVE ANALYSIS % PASSING SIEVE: 4	10	40	200
1	SS-1	100		CH		Sandy CLAY; dark brown to dark gray; with little amount of gravel and medium sand; 11-22% fine sand; 77-89% high plasticity clay; SOFT TO FIRM.	2	2	2		82		65	43	2.80			98	98	97	86*
2	SS-2	89					2	3	2												
3	SS-3	89					3	2	2		39		55	32	2.80					100	89*
4	SS-4	89					3	3	3												
5	UDS-1	100					PRESSED				36	C 45kpa 1.72	52	29	2.62	Cc 0.210 0.790	Pc 1.610 3.429		100	99	77*
6	SS-5	100					4	3	3												
7	SS-6	89					4	4	4		41		57	31	2.80					100	85*
8	SS-7	89				Silty CLAY; dark brownish gray; 96% high plasticity clay; with little amount of coarse to fine sand; FIRM TO STIFF.	5	4	5												
9	SS-8	89					5	5	6												
10	SS-9	89					3	3	5		59		56	38	2.80			100	99	97	98*
11	SS-10	100					5	7	6												
12	SS-11	100		SW		Gravelly SAND; dark brownish gray; 36% gravel; 12% non-plastic silt; 23% coarse sand; 19% medium sand; 10% fine sand; VERY DENSE.	10	28	22/10		38				2.64			64	41	22	12
13	CR-1	86		LT	30	Lapilli TUFF; buff to creamy white; highly weathered; lapilli concretions present and abundant in a clayey silty tuffaceous matrix; HARD.	CORING				28	1.35				28.049	1.302				
14	CR-2	92		ST	00	Tuffaceous SANDSTONE; buff to creamy white; highly weathered; lapilli concretions abundant in a silty-coarse sand tuffaceous matrix; shattered; HARD.	CORING														
15	CR-3	72			48		CORING														
16						End of Borehole (15.00 m)															
17																					
18																					
19																					
20																					

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

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

Figure 5-3-3 (128/221) BORING LOGS (PHASEI)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRL - 17

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Green Meadows, Pasig City
BH NO: BMRL-17 DATE DRILLED: 10 - 11 February 2001

GROUND ELEV. (MLLW = Zero Datum): + 17.756
STATION NO.: 4 + 800
WEATHER: FAIR

DEPTH OF WATER: 2.00 m.
DATE MEASURED: 11 Feb. 2001
TIME MEASURED: 5:00 PM

COORDINATES: 1614,199.850 N, 508,655.250 E

DEPTH, m	SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS: LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST: STRENGTH kg/cm²	STRAIN %	SIEVE ANALYSIS % PASSING SIEVE: 4	10	40	200
1	UDS-1	100		CH		Sandy CLAY; gray; 4% fine sand; 89% high plasticity clay; VERY SOFT.	PRESSED			43	C 28 kpa 1.79	53	30	2.62	Cc 0.200 0.194	Pc 1.930 5.143	99	98	93	89*
2	UDS-2	100		CH		Sandy CLAY; gray; 3% coarse sand; traces of medium to fine sand; with little amount of gravel; 89% plasticity clay; VERY SOFT.	PRESSED			38	C 40 kpa 1.83	54	34	2.61	Cc 0.300 0.080	Pc 0.850 5.711	99	98	93	89*
3	SS-1	78		GM		Sandy GRAVEL; dark gray; 10% medium sand; 11% fine sand; traces of coarse sand; 10% non-plastic silt; DENSE.	18	20	19	35				2.68			38	31	21	10
4	SS-2	67					17	19	20											
5	SS-3	100		GC		Clayey GRAVEL; brownish gray; 10% coarse sand; traces of medium and fine sand; 37% high plasticity clay; 42% angular gravel; MEDIUM DENSE.	16	13	12	30				2.65			58	48	40	37
6	SS-4	100		CH		Silty CLAY; dark brownish gray; 93% high plasticity silty clay; with little amount of coarse to fine sand; STIFF.	8	7	7											
7	SS-5	100					5	7	4											
8	SS-6	100					6	8	7	62		65	36	2.60			100	98	98	93*
9	SS-7	100					5	5	4											
10	SS-8	100					6	7	6											
11	SS-9	100		CH		Gravelly CLAY; dark brownish gray; 11% fine sand; traces of medium sand; 23% sub-angular gravel; 61% high plasticity clay; VERY STIFF.	10	12	12	57		51	30	2.62			77	76	72	61*
12	SS-10	100					11	13	15											
13	SS-11	89					12	12	14											
14	SS-12	100		CH		Sandy CLAY; dark gray; 21% fine sand with traces of gravel and coarse to medium sand; 64% high plasticity clay; HARD.	20	30	20/10	46		51	26	2.61			95	91	85	64*
15	SS-13	64					21	28	22/9											
16	CR-1	20		CG		Tuffaceous CONGLOMERATE; brownish gray; hard; broken; moderately to highly weathered; Moderately HARD.	CORING													
17						END OF BOREHOLE (16.00 m)															
18																				
19																				
20																				

STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50

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MACHINE: ACKER ACE
DRILLER: J. MOGOL
SUPERVISOR: M. ESTAURA

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

Figure 5-3-3 (129/221) BORING LOGS (PHASEI)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRL - 18

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Ugong, Pasig City
HOLE NO: BMRL-18 DATE DRILLED: 09 February 2001
GROUND ELEV. (MLLW = Zero Datum): + 13.725
STATION NO.: 5 + 050
WEATHER: FAIR
DEPTH OF WATER: 1.00 m.
DATE MEASURED: 09 Feb. 2001
TIME MEASURED: 4:00 PM
COORDINATES: 1614,451.100 N, 508,702.100 E

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS: LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST: STRENGTH kg/cm²	STRAIN %	SIEVE ANALYSIS % PASSING SIEVE: 4	10	40	200
1	UDS-1	100		CH		Sandy CLAY; gray; 45% fine sand; with little amount of medium sand; 50% high plasticity clay with shell fragments; VERY SOFT.	PRESSED				54	C 28kpa 1.69	57	35	2.62	Cc 0.440 0.256	Pc 1.150 2.0	99	99	95	50*
2	UDS-2	100		CH		Silty CLAY; gray; 90% high plasticity silty clay with traces of gravel size shell fragments; VERY SOFT.	PRESSED				60	C 32kpa 1.59	62	40	2.60	Cc 0.465 0.108	Pc 0.940 6.286	94	92	92	90*
3	SS-1	63		GP SP		Sandy GRAVEL; gray; 71% sub-angular gravel with traces coarse to fine sand and non-plastic silt; VERY DENSE.	16	30	20	10	21				2.65			29	22	16	9
4	SS-2	68		SP		Gravelly SAND; gray; 25% non-plastic silt; 28% sub-angular gravel; 17% coarse sand; 17% medium sand; 13% fine sand; VERY DENSE.	20	35	15	7	19				2.64			72	55	38	25
5	CR-1	96		CG	72	CONGLOMERATE; grayish brown; moderately weathered; broken matrix; moderately HARD.	CORING				23	1.61				100.707	3.158				
6	CR-2	76		CG	32	CONGLOMERATE; grayish brown; to buff moderately to highly weathered; moderately HARD.	CORING				30	1.58				83.591	2.691				
7	CR-3	59		ST	25	SANDSTONE; buff highly to completely weathered; broken; VERY SOFT.	CORING				16	1.63				171.481	4.902				
8	CR-4	47		ST	47	SANDSTONE; light gray; well cemented fresh to slightly weathered; HARD.	CORING				19	1.63				169.595	4.865				
9	CR-5	37		ST	37		CORING														
10	CR-6	42		ST	0		CORING				23	1.67				78.225	2.671				
11	CR-7	30		ST	30		CORING				19	1.67				134.728	4.425				
12	CR-8	19		ST	13	SANDSTONE; buff poorly cemented; completely weathered; VERY SOFT.	CORING														
13	CR-9	16		ST	0		CORING				22	1.65				91.712	2.688				
14	CR-10	30		CG	30	CONGLOMERATE; grayish brown; moderately weathered broken; HARD.	CORING														
15	CR-11	44		CG	0		CORING														
16						End of Borehole (15.00 m)																
17																					
18																					
19																					
20																					

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MACHINE: ACKER ACE
DRILLER: J. MOGOL
SUPERVISOR: M. ESTAURA

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

Figure 5-3-3 (130/221) BORING LOGS (PHASEI)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS — MRL - 19

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Ugong, Pasig City
BH NO: BMRL-19 DATE DRILLED: 08 - 09 February 2001
GROUND ELEV. (MLLW = Zero Datum): + 16.865
STATION NO.: 5 + 400
WEATHER: FAIR
DEPTH OF WATER: 2.00 m.
DATE MEASURED: 09 Feb. 2001
TIME MEASURED: 7:00 AM
COORDINATES: 1614,799.100 N, 508,710.100 E

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm / 15 cm / 15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS: LIQUID LIMIT, %	ATTERBERG LIMITS: PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST: STRENGTH kg/cm²	UNCONFINED COMP. TEST: STRAIN %	SIEVE ANALYSIS % PASSING SIEVE: 4	10	40	200
1	UDS-1	67		CH		Sandy CLAY; gray to grayish brown; 18-21% fine sand; traces of gravel and coarse to medium sand; 65-78% high plasticity clay; VERY SOFT TO HARD.	PRESSED		41		57	37	2.61			99	97	96	78*
2	SS-1	61					16 / 23 / 27/13		47		58	36	2.62			93	91	86	65*
3	SS-2	58		SW		Gravelly SAND; dark gray; 23% non-plastic silt; 32% angular gravel; 13% coarse sand; 17% medium sand; 15% fine sand; VERY DENSE.	19 / 26 / 24/13		23				2.64			68	55	38	23
4	CR-1	56			51	CONGLOMERATE; buff; moderately weathered; well cemented; broken; HARD TO VERY HARD.	CORING		21	1.70				83.644	2.668				
5	CR-2	58			35		CORING		19	1.81				72.093	2.747				
6	CR-3	51			25		CORING		19	1.77				78.409	2.157				
7	CR-4	58		CG	34		CORING		22	1.67				78.257	2.769				
8	CR-5	60			45		CORING		25	1.67				83.386	1.892				
9	CR-6	55			0		CORING												
10	CR-7	52			39		CORING		24	1.74				142.081	3.813				
11	CR-8	37			25		CORING		38	1.71				155.402	4.348				
12	CR-9	40			11		CORING		19	1.70				80.611	2.682				
13	CR-10	12			0		CORING												
14	CR-11	17		SS	0	SILTSTONE; light brown; moderately weathered; VERY SOFT to SOFT.	CORING												
15	CR-12	16			0		CORING												
16						End of Borehole (15.00 m)														
17																			
18																			
19																			
20																			

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MACHINE: ACKER ACE
DRILLER: J. MOGOL
SUPERVISOR: M. ESTAURA

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

Figure 5-3-3 (131/221) BORING LOGS (PHASEI)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS

MRL - 20

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Bagumbayan, Pasig
BH NO: BMRL-20 DATE DRILLED: 02 - 03 February 2001

GROUND ELEV. (MLLW = Zero Datum) + 11.382
STATION NO.: 5 + 700
WEATHER: FAIR

DEPTH OF WATER: 1.50 m.
DATE MEASURED: 03 Dec. 2000
TIME MEASURED: 4:00 PM

COORDINATES: 1615,118.500 N, 508,825.500 E

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST STRENGTH kg/cm²	STRAIN %	SIEVE ANALYSIS % PASSING SIEVE 4	10	40	200
1	SS-1	100		CH		Silty CLAY; gray; 83% high plasticity silty clay; traces of fine sand and little amount of gravel; FIRM.	1	2	4		48		57	35	2.61			95	94	92	83*
2	SS-2	100		SM		Silty SAND; brownish gray; 14% non-plastic silt; 83% fine sand; LOOSE.	4	4	5		30				2.63				100	97	14
3	SS-3	100				Silty SAND; light gray; 34% non-plastic silt; 19% medium sand; 46% fine sand; DENSE.	7	10	20		28				2.63			100	98	80	34
4	SS-4	100		GM		Gravelly SAND; brownish gray; 19-25% non-plastic silt; 9-33% sub-angular gravel; 9-13% coarse sand; 20-41% medium fine sand; 19-21% fine sand; DENSE.	20	20	28		19				2.65			87	59	36	19
5	SS-5	89					20	23	23		23				2.64			91	62	41	20
6	SS-6	78					18	21	27		24				2.64			79	66	44	25
7	CR-1	45		LT	0	Lapilli TUFF; buff to light gray; with lapilli; moderately weathered; medium strong rock; fairly lightly fractured; moderately HARD.	CORING														
8	SS-7	49		CH		Sandy CLAY; brown; 18% fine sand; 81% high plasticity clay; HARD.	10	26	24/11												
9	SS-8	63					16	28	22/10		35		59	31	2.61				100	99	81*
10	CR-2	30		LT	9	Lapilli TUFF; buff to light gray; with abundant lapilli; moderately weathered; medium strong rock fairly lightly fractured;	CORING				12	1.83				54472	3330				
11	SS-9	75		SW		Gravelly SAND; brownish gray; 21-27% angular gravel; 19-27% coarse sand; 19-21% medium fine sand; 12-21% fine sand; 15-18% non-plastic silt; VERY DENSE.	15	26	24/10		28				2.64			73	46	27	15
12	SS-10	90					12	28	22/9												
13	SS-11	75					16	30	20/10												
14	SS-12	66					18	28	22/8		22				2.64			79	60	39	18
15	SS-13	50					20	25	25/10												
16	CR-3	97		LT	12	Lapilli TUFF; buff to light gray; with lapilli; moderately weathered; medium strong rock; fairly highly fractured; Moderately HARD.	CORING				22	1.89				91.45	3.018				
17						End of Borehole (16.00 m)																
18																					
19																					
20																					

BASIC TECHNOLOGY AND MANAGEMENT CORPORATION
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MACHINE: ACKER ACE
DRILLER: J. MOGOL / DUNA
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 (132/221) BORING LOGS (PHASEI)

SHEET 1 OF 1

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS *MRL - 21*

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Manggahan, Pasig City
BH NO: BMRL-21 **DATE DRILLED:** 03 - 07 February 2001

GROUND ELEV. (MLLW = Zero Datum) + 14.218
STATION NO.: 5 + 900
WEATHER: FAIR
COORDINATES: 1615,081.750 N, 509,072.500 E

DEPTH OF WATER: 0.60 m.
DATE MEASURED: 03 Feb. 2001
TIME MEASURED: 1:00 PM

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS: LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST: STRENGTH kg/cm²	STRAIN %	SIEVE ANALYSIS % PASSING SIEVE: 4	10	40	200
1	SS-1	89		SW SM		Gravelly Silty SAND; gray; 44% dominantly fine sand with 33% non-plastic fines; 23% sub-rounded to angular gravel; LOOSE TO MEDIUM DENSE.	4	5	5		31				2.64			77	67	57	33
2	SS-2	89		CL		Gravelly Sandy CLAY; gray; 48% medium plasticity fines with 24% fine sand; 16% sub-rounded to angular gravel; STIFF.	6	7	7		25		47	27	2.63			82	76	72	48
3	CR-1	60			0		CORING														
4	CR-2	42		LT	0	Lapilli TUFF; buff, moderately weathered; SOFT TO Moderately HARD.	CORING														
5	CR-3	54					CORING														
6	CR-4	41			0		CORING														
7	CR-5	55			10		CORING				5	1.41				35.789	2.011				
8	CR-6	37		SS	23	Volcanic SANDSTONE; light gray; very coarse-grained; moderately to highly weathered; MODERATELY HARD.	CORING				22	1.46				13.084	0.806				
9	CR-7	65			56		CORING				14	1.79				72.646	2.016				
10	CR-8	75			18		CORING														
11	CR-9	60			24		CORING				3	1.69				47.818	1.874				
12	CR-10	95			0	Volcanic CONGLOMERATE; buff; highly weathered; MODERATELY HARD to SOFT.	CORING														
13	CR-11	94		CG	88		CORING				4	1.58				55.479	1.856				
14	CR-12	90			46		CORING				5	1.70				64.143	2.111				
15	CR-13	96			44		CORING				19	1.64				34.661	1.075				
16						End of Borehole (15.00 m)																
17																					
18																					
19																					
20																					

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

Figure 5-3-3 (133/221) BORING LOGS (PHASEI)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS *MRL - 22*

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Manggahan, Pasig City
BH NO: BMRL-22 **DATE DRILLED:** 30 - 31 January 2001

GROUND ELEV. (MLLW = Zero Datum) + 15.721
STATION NO.: 6 + 150
WEATHER: FAIR
COORDINATES: 1614,877.500 N, 509,249.500 E

DEPTH OF WATER: 1.00 m.
DATE MEASURED: 31 Jan. 2001
TIME MEASURED: 6:00 PM

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS: LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST: STRENGTH kg/cm²	STRAIN ε, %	SIEVE ANALYSIS % PASSING SIEVE: 4	10	40	200
1	SS-1	89		SM		Silty SAND; grayish brown; 16% non-plastic silt; 22% medium sand; 56% fine sand with little amount of coarse sand; SOFT.	1	1	1		32				2.63			98	94	72	16
2	SS-2	78					1	1	1												
3	SS-3	89		CH		Silty CLAY; gray; 95% high plasticity silty clay; SOFT.	1	0	2		62		68	42	2.60				100	98	95*
4	SS-4	89					2	1	2												
5	SS-5	89				Sandy CLAY; gray; 25-30% fine sand with traces of medium sand; 55-67% high plasticity clay; STIFF TO VERY STIFF.	2	4	4		30		48	28	2.61			100	98	92	67*
6	SS-6	89					5	6	9		32		46	22	2.61			96	94	85	55*
7	SS-7	89					9	11	12												
8	SS-8	89					7	11	17												
9	SS-9	89		CH		Gravelly CLAY; brown; 17% sub-angular gravel; traces of coarse to fine sand; 71% high plasticity clay; HARD.	11	20	20		33		52	30	2.61			83	78	74	71*
10	SS-10	89					8	11	13												
11	SS-11	89				Silty CLAY; grayish brown; 91-97% high plasticity silty clay; with little amount of fine sand; MEDIUM DENSE.	9	10	14												
12	SS-12	89		CH			7	9	11		40		72	49	2.60			100	99	98	97*
13	SS-13	89					6	8	12												
14	SS-14	89					8	11	15		43		76	43	2.60			99	98	96	91*
	SS-15	66		SM		Silty SAND; light brown; 33% non-plastic silt; 23% medium fine sand; 43% fine sand; VERY DENSE.	25	50/14			43		45	17	2.63			100	99	76	33*
15						End of Borehole (14.84 m)															
16																					
17																					
18																					
19																					
20																					

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

Figure 5-3-3 (134/221) BORING LOGS (PHASEI)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRL - 23

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Brgy. Manggahan, Pasig
BH NO: BMRL-23 DATE DRILLED: 26 - 27 January 2001
GROUND ELEV. (MLLW = Zero Datum) + 13.494
STATION NO.: 6 + 650
WEATHER: FAIR
COORDINATES: 1614,781.750 N, 509,530.750 E
DEPTH OF WATER: 1.00 m.
DATE MEASURED: 27 Jan. 2001
TIME MEASURED: 10:00 AM

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm / 15 cm / 15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS: LIQUID LIMIT, %	ATTERBERG LIMITS: PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST: STRENGTH kg/cm²	UNCONFINED COMP. TEST: STRAIN ε, %	SIEVE ANALYSIS % PASSING SIEVE: 4	10	40	200
1	SS-1	89		SM		**Silty SAND;** brownish gray; 53% fine sand with 36% non-plastic silt; poorly graded; LOOSE.	1 / 1 / 3		38				2.63			99	97	89	38
2	SS-2	89		GP		**Gravelly SAND;** brownish gray to gray; 27% coarse sand; 23% medium sand; 38% sub-rounded to angular gravel; non-plastic silt; LOOSE TO MEDIUM DENSE.	7 / 5 / 7												
3	SS-3	56					13 / 5 / 3		10				2.64			62	35	12	4
4	SS-4	56					7 / 5 / 6												
5	SS-5	60					4 / 3 / 4												
6	SS-6	100		CH		**CLAY;** gray; 97% very high plasticity fines; FIRM.	3 / 2 / 2		58		79	52	2.60			100	99	98	97*
7	SS-7	100					2 / 3 / 3												
8	UDS-1	100				**Gravelly Sandy CLAY;** dark gray; 41% high plasticity clay with 43% coarse to fine sand; 16% angular gravel; SOFT.	PRESSED		40	C 52kpa 1.79	51	23	2.83	Cc 0.285	Pc 1.400	84	62	49	41
9	SS-8	89				**Silty CLAY;** dark gray; high plasticity clay; traces of fine sand; presence of decayed wood; FIRM.	2 / 2 / 3												
10	UDS-2	100		GC		**Sandy Clayey GRAVEL;** dark gray; 38% angular gravel; 35% highly plastic fines; 17% coarse sand; LOOSE.	PRESSED		57	C 44kpa 1.65	57	34	2.63	Cc 0.430	Pc 2.200	62	45	37	35
11	SS-9	89		CH		**Sandy CLAY;** dark gray; 11% fine sand; 78% high plasticity clay. VERY STIFF.	8 / 11 / 13		30		60	32	2.81			100	99	98	78*
12	SS-10	89		SM		**Gravelly Silty SAND;** dark brownish gray; 21% sub-angular gravel; 36% non-plastic silt; 17% coarse sand, 17% medium sand; traces of fine sand; MEDIUM DENSE TO DENSE.	9 / 12 / 18												
13	SS-11	89					9 / 19 / 23		17				2.64			79	62	45	36
14	SS-12	89		GP GM		**Silty Sandy GRAVEL;** dark brown; 22% non-plastic silt, 9% fine sand, 17% medium sand with traces of fine sand; 40% sub-angular gravel; DENSE TO VERY DENSE.	18 / 18 / 27												
15	SS-13	100					30 / 30 / 20/9		13				2.65			60	48	31	22
16						End of Borehole (14.94 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: E. RIEZA
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 (135/221) BORING LOGS (PHASEI)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRL - 24

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Libis, Quezon City
BH NO: BMRL-24 DATE DRILLED: 12 January 2001

GROUND ELEV. (MLLW = Zero Datum) + 15.748
STATION NO.: 8 + 450
WEATHER: FAIR

DEPTH OF WATER: 1.80
DATE MEASURED: 12 Jan. 2001
TIME MEASURED: 10:00 PM

COORDINATES: 1616,058.750 N, 508,412.500

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE)	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, gm/cc	ATTERBERG LIMITS LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST STRENGTH kg/cm²	STRAIN %	SIEVE ANALYSIS % PASSING SIEVE 4	10	40
1	SS-1	89		CH		Sandy CLAY; brown; 13-18% fine sand; with little amount of gravel and coarse to medium sand; 72-81% high plasticity clay; SOFT TO FIRM.	1	1	1		41		53	30	2.61			94	92	90
2	SS-2	100					2	2	4											
3	SS-3	100					2	2	3		38		57	33	2.61			98	96	94
4	SS-4	100		ML		Sandy SILT; gray; 37% fine sand with traces of medium sand; 54% non-plastic silt; STIFF.	4	5	6		25				2.62			99	98	91
5	SS-5	100		SM		Silty SAND; gray to brown; 15-19% non-plastic silt; 21-23% medium sand; 52-64% fine sand; MEDIUM DENSE.	5	6	6											
6	SS-6	100					6	7	8		20				2.63			98	94	71
7	SS-7	100					8	12	12		21				2.63				100	79
8	SS-8	100		CH		Sandy CLAY; brown; 14% fine sand with traces of medium sand; 76% high plasticity clay; HARD.	15	20	21		32		54	28	2.61			100	99	90
9	SS-9	67		SM		Silty SAND; brown; 20% coarse sand; 43% medium sand; 16% fine sand; with little amount of gravel; 16% non-plastic silt; DENSE TO VERY DENSE.	17	18	18		14				2.64			95	75	32
10	SS-10	100					23	26	24/12											
11	SS-11	100					24	27	23/10											
12	SS-12	100		CH		Silty CLAY; brown to gray; 93-98% high plasticity silty clay; HARD.	26	29	21/10		26		73	42	2.60				100	99
13	SS-13	100					18	28	23		37		67	36	2.80				100	98
14	SS-14	89		SM		Silty SAND; gray; 20% non-plastic silt; 70% fine sand; with little amount of coarse to medium sand; LOOSE.	2	2	3		34				2.63			99	95	90
15	SS-15	100		CH		Sandy CLAY; gray; 23% fine sand; 75% high plasticity clay; VERY STIFF TO HARD.	12	13	15		37		69	36	2.61				100	98
16	SS-16	100					13	15	16											
17	SS-17	100				Silty CLAY; gray; 93% high plasticity clay with little amount of fine to medium sand; VERY STIFF TO HARD.	12	13	13											
18	SS-18	100					13	12	14		53		83	31	2.60			100	99	95
19	SS-19	100					20	21	21											
20	SS-20	67					23	22	23											

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/ HYDROMETER ANALYSIS

Figure 5-3-3 (136/221) BORING LOGS (PHASEI)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRL - 24b

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Libis, Quezon City
BH NO: BMRL-24 DATE DRILLED: 12 January 2001

GROUND ELEV. (MLLW = Zero Datum) + 15.748
STATION NO.: 8 + 450
WEATHER: FAIR

DEPTH OF WATER: 1.80 m.
DATE MEASURED: 12 Jan. 2001
TIME MEASURED: 10:00 PM

COORDINATES: 1610,058.750 N, 508,412.500 E

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, gr/cc	ATTERBERG LIMITS LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST STRENGTH kg/cm²	STRAIN %	SIEVE ANALYSIS % PASSING SIEVE 4	10	40	200
21	SS-21	89		CH		**Sandy Silty CLAY**; gray; 83% high plasticity clay with fine to medium sand; HARD.	20	18	22		45		61	39	2.80			98	97	93	83*
						END OF BOREHOLE (21.00 m)															
22																					
23																					
24																					
25																					
26																					
27																					
28																					
29																					
30																					
31																					
32																					
33																					
34																					
35																					
36																					
37																					
38																					
39																					
40																					

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/ HYDROMETER ANALYSIS

Figure 5-3-3 (137/221) BORING LOGS (PHASEI)

SHEET 1 OF 1

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRL - 25

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Libis, Quezon City
BH NO: BMRL-25 DATE DRILLED: 10 - 11 January 2001

GROUND ELEV. (MLLW = Zero Datum) + 16.032
STATION NO.: 8 + 800
WEATHER: FAIR
COORDINATES: 1616,429.750 N, 508,251.250 E

DEPTH OF WATER: 1.00 m.
DATE MEASURED: 11 Jan. 2001
TIME MEASURED: 10:30 AM

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm / 15 cm / 15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS: LIQUID LIMIT, %	ATTERBERG LIMITS: PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST: STRENGTH kg/cm²	UNCONFINED COMP. TEST: STRAIN %	SIEVE ANALYSIS % PASSING SIEVE: 4	10	40	200
1	SS-1	89				Sandy CLAY; brown to grayish brown; 7-16% fine sand; 84-93% high plasticity clay; SOFT.	2 / 1 / 1		38		58	38	2.80					100	84
2	SS-2	100					1 / 1 / 1												
3	SS-3	100					1 / 1 / 2		55		68	45	2.80					100	93
4	SS-4	100					1 / 2 / 2												
5	SS-5	100				Sandy CLAY; gray to light brown; 15% fine sand; 81% high plasticity clay; VERY STIFF.	2 / 9 / 10												
6	SS-6	100		CH			10 / 14 / 16		31		57	32	2.61			99	97	96	81
7	SS-7	67					16 / 14 / 14												
8	SS-8	100					5 / 7 / 9												
9	SS-9	100				Silty CLAY; light brown; traces of medium fine to fine sand; with little amount of gravel and coarse sand; HARD TO VERY STIFF.	39 / 29 / 21		27		58	37	2.61			97	94	85	77
10	SS-10	100					13 / 16 / 17												
11	SS-11	100					5 / 8 / 15												
12	SS-12	78		SM		Silty SAND; brown; 14% non-plastic silt; 35% medium sand; 50% fine sand; DENSE.	16 / 16 / 20		27				2.63			100	99	84	14
13	SS-13	78					30 / 29 / 21												
14	SS-14	100					28 / 26 / 24												
15	SS-15	89		CH		Silty CLAY; grayish brown to brown; 97% high plasticity silty clay; with little amount of fine sand; HARD.	20 / 20 / 21		38		75	45	2.80					100	97
16	SS-16	100					30 / 32 / 21/10												
17						End of Borehole (15.90 m)													
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 JIMENEZ
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 (138/221) BORING LOGS (PHASEI)

SHEET 1 OF 1

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRL - 26

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Libis, Quezon City
BH NO: BMRL-26 DATE DRILLED: 29 Dec. - 02 Jan. 2001

GROUND ELEV. (MLLW = Zero Datum) + 14.435
STATION NO.: 9 + 125
WEATHER: FAIR
COORDINATES: 1616,758.950 N, 508,345.500 E

DEPTH OF WATER: 3.00 m.
DATE MEASURED: 02 Jan. 2001
TIME MEASURED: 2:00 PM

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm / 15 cm / 15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS: LIQUID LIMIT, %	ATTERBERG LIMITS: PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST: STRENGTH kg/cm²	UNCONFINED COMP. TEST: STRAIN, %	SIEVE ANALYSIS % PASSING SIEVE: 4	10	40	200
1	SS-1	67		CH		Sandy CLAY; brown; 22% fine sand; with little amount of coarse to medium sand; 72% high plasticity clay; STIFF.	3 5 5		35		56	36	2.61			99	97	84	72*
2	SS-2	78					2 3 4												
3	SS-3	89				Sandy CLAY; brown to grayish brown; 10% fine sand; 89% high plasticity clay; FIRM TO VERY SOFT.	1 0 1		42		61	39	2.60			100	99	99	89*
4	SS-4	100					1 1 1												
5	UDS-1	100					PRESSED		38	C 40kpa 1.58	65	37	2.60	Cc 0.538	Pc 0.690		100	99	89*
6	SS-5	44		GM		Sandy GRAVEL; dark gray; 12% non-plastic silt; 13% coarse sand; 14% medium sand; 12% fine sand; 49% sub-angular gravel; MEDIUM DENSE.	8 11 12												
7	SS-6	67					10 11 8		9				2.65			51	38	24	12
8	SS-7	89		CH		Silty CLAY; grayish brown; 97% high plasticity silty clay; VERY STIFF.	7 8 9												
9	SS-8	89					8 10 9												
10	SS-9	89					7 8 10		36		72	52	2.60			100	98	98	97*
11	SS-10	89		SM		Silty SAND; brown; 27% non-plastic silt; 10-12% medium sand; 61-63% fine sand; MEDIUM DENSE TO VERY DENSE.	11 14 15												
12	SS-11	100					14 15 17												
13	SS-12	82					10 10 15		29				2.63				100	90	27
14	SS-13	44					9 10 18												
15	SS-14	49					12 15 22												
16	SS-15	78					19 25 32		24				2.63				100	86	27
17						End of Borehole (16.00 m)													
18																			
19																			
20																			

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, M. VILLAFUERTE

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

Figure 5-3-3 (139/221) BORING LOGS (PHASEI)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS *MRL - 27*

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, C-5 Pasig - Marikina
BH NO: BMRL-27 DATE DRILLED: 27 - 29 December 2000

GROUND ELEV. (MLLW = Zero Datum) + 15.305
STATION NO.: 9 + 300
WEATHER: FAIR
COORDINATES: 1616,894.100 N, 508,469.100 E

DEPTH OF WATER: 1.40 m.
DATE MEASURED: 28 Dec. 2000
TIME MEASURED: 5:30 PM

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS: LIQUID LIMIT, %	ATTERBERG LIMITS: PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST: STRENGTH kg/cm²	UNCONFINED COMP. TEST: STRAIN %	SIEVE ANALYSIS % PASSING SIEVE: 4	10	40	200
1	SS-1	56		CH		Sandy CLAY; brown; 26% fine sand; 72% high plasticity clay; SOFT.	2	1	2	31		61	29	2.61				100	98	72*
2	SS-2	67				Silty CLAY; brown; 95% high plasticity silty clay; with little amount of fine sand; SOFT.	2	1	1											
3	SS-3	67					2	1	1	38		65	38	2.60					100	95*
4	SS-4	100		SM		Silty SAND; grayish brown; fine sand with non-plastic silt; VERY SOFT TO SOFT.	1	1	0											
5	SS-5	67					1	1	1											
6	SS-6	56		GM		Silty GRAVEL; light gray;11% non-plastic silt; traces of coarse to fine sand; 69% sub-angular gravel; DENSE TO VERY DENSE.	7	25	21	9				2.66			31	23	16	11
7	SS-7	74					40	50/12												
8	SS-8	100		CH		Silty CLAY; light brown; 90% high plasticity silty clay; with little amount of medium to fine sand; FIRM TO VERY STIFF.	3	3	5	34		88	47	2.60			99	97	94	90*
9	SS-9	100					4	5	8											
10	SS-10	100					7	8	10											
11	SS-11	100				Gravelly CLAY; brown; 14- 15% sub-angular gravel; traces of coarse to fine sand; 68-76% high plasticity clay; VERY STIFF TO HARD.	10	12	14											
12	SS-12	100					13	15	18	24		53	33	2.61			85	78	72	68*
13	SS-13	95					7	27	23/7											
14	SS-14	78					10	17	20											
15	SS-15	78					8	18	17	28		53	31	2.61			86	84	81	76*
16	SS-16	78					7	13	20											
17	SS-17	78					9	12	18											
18	SS-18	67		GM		Silty GRAVEL; brown; equal amount of non-plastic silt and sub-angular gravel; with 26% fine sand; DENSE.	13	17	22	19				2.65			68	62	58	32
19	SS-19	78					9	16	21											
20	SS-20	44				End of Borehole (20.00 m)	22	24	17											

STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50

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

MACHINE: ACKER ACE
DRILLER: J. DAWI
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 (140/221) BORING LOGS (PHASEI)