SHEET 1 OF 1

		-			Marikina River Channel				(GROU MLLW STATI	/ = Ze	ro Dat							MEA					
					e Offshore, Pasig-Mariki					WEAT					IR		Т	IME	MEAS	SURE	D:	8:	00 /	٩M
and the second se	26	_			E DRILLED: 11 - 13 Dece	mber 2				OOR	DINA	TES:		16	1797	1.1	1		N,	1	5088	1)50	
SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION		15		15	P	ENETH	ANDAR RATION (SPT)		r	JRAL MOIST. NTENT, %	TOTAL UNIT WEIGHT, g/cc	LIN			COMF	NFINED	% F	EVE AL	
SAME	RECO	LOG	CLAS				ст	cm	cm	10	(N 20	VALUE 30		0	NATU	0 III	LIMIT	PLASTICITY INDEX. %	50	STRENGTH kg/cm ²	STRAIN &, %	4	10	4
SS-1	67		sw	1	Medium To Fine SAND; gray, medium sand with traces of coarse and shell fragments; VERY LOO	sand	1	0	1						25				2.63			96	90	2
SS-2	67		SM		Silty SAND; gray; 49% plastic silt; 20% medium s 25% fine sand with trace	sand; es of	2	3	3	$\left \right $														
SS-3	78				coarse sand and sub-ang gravel; LOOSE TO DENSE	gular 	4	2	6						30				2.62			98	94	7
SS-4	67				Sandy Clayey SILT; light b	rown	15	17	14															
SS-5	89				to brown; 12% fine sand; very low plasticity clayey VERY STIFF.	84%	14	13	12		(/												-
SS-6	89		ML				6	7	10						30			-	2.60			100	99	9
SS-7	89 X							9 50,							-									\vdash
SS-8	100				Gravelly Sandy SILT; light b to brown; 25% sub-angular gr 7% coarse sand; 11% me sand; 10% fine sand; 47%	ravel; dium		50, 13					\square					$\left \right $						-
SS-9 SS-10	78				plastic silt; HARD.			14 50, 11					$\left \left\langle \right\rangle \right $		26				2.62			75	68	5
COP-12	and a second		SS		SILTSTONE; light brown; weathered; generally broken; HA	highly	c	ORI	G															F
SS-11	100 100	2	SC		Clayey SAND; brown; fine to medium low plasticity clay; VERY DENSE.	n sand; /	43	50 15																
CR-2 SS-12	NR 100		ML		No Recovery	n sand:	C 50	ORII	IG															
CR-3	NR				non-plastic silt; VERY DENSE.																			Γ
SS-13 SS-14	100 100		GN		Sandy Silty GRAVEL; brown; 11% mediur with traces of coarse and fine sand; 29% non silt; 46% sub-rounded gravel; VERY DENS	n-plastic	C 50/5 50/5	1	G						24				2.64			54	48	3
CR-4	65		SS		SILTSTONE; light gray to b highly weathered; gene broken; HARD.	rown;		ORI	ΫG															
CR-5	53			-			c	ORI	G															
CR-6	33		ST		SANDSTONE; yellowish bro gray; highly weathered; gen broken; HARD.	wn to erally	с	ORII	G															
CR-7	33	1			End of Borehole (20.05 n	n)		OR	NG															
•••	1	M	IAN	AGE	ECHNOLOGY AND EMENT CORPORATION Prudential Bank Building,	MA(DRI										_	LEGE		v	IS - SP VS - W		AMPL	E	

Figure 5-3-3 (106/221) BORING LOGS (PHASEI)

20	JI	ECT	r: <u>F</u>	asi	g-M	arikina River Channel	Imp.	Pro	oj.	(GROUND ELEV. MLLW = Zero Datum)+			1				ER:				-
C	ATI	ON:	-			de Offshore, Marikina I			_		STATION NO.: <u>11</u> WEATHER: F	+ 000)					D:		:00 F		쓰
N	0:	BML	.W-2	0 0	ATE	DRILLED: 20 - 22 Dece	mber	200)1			5178	21.2		N			5091				-
		(%)	Ы	LION								ST.			RBERG			NFINED P. TEST		EVE A		
	SAMPLE NO.	RECOVERY ("	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION			15 cm		STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT: %	TOTAL UNIT WEIGHT, g/cc	LIMIT, %		SPECIFIC GRAVITY	STRENGTH kg/cm ²	1	4	10	40	
S	S-1	100				Gravelly CLAY; grayish b 11% coarse to fine sand; 33% rounded gravel; 56% high pla	sub-	2	3	5		37		53	30	2.61			67	64	60	
S	S-2	100				clay; STIFF to VERY STIFF		Π	5				-									-
S	S-3	100						7	7	10		39	-			2.65			73	60	51	-
S	S-4	100				Silty CLAY; brown to cro brown; 89% high plasticity cla	v with	4	3	3												
S	S-5	100				little amount of fine sand; FIR STIFF.	MIO		4			-										
		100							5			26	-	62	41	2.60			99	97	95	
		100 100				Silty CLAY; brown to cro brown;97% high plasticity cla	eamy vwith		<u>11</u> 9													
		100		сн		little amount of fine sand; N STIFF.	/ERY	Π	10	*		27		69	47_	2.60			100	99	98	
55	S-10	67						7	10	12												
S	S-11	100				Sandy CLAY; creamy brown medium sand with traces of g and coarse and fine sand ;70% plasticity clay; VERY STIF	gravel 6 high	7	10	12		_										
S	S-12	100				HARD.		13	18	18		28	-	59	34	2.61			92	87	77	
S	S-13	100						8	7	10												
		100				Silty CLAY; brown; 85% plasticity clay w/ traces of fine and little amount of grave coarse to medium sand.	sand and	9	12	13		-										
	S-15 S-16	100 100				STIFF TO HARD.		Π	11			29	-	65	38	2.60			96	94	92	
	S-17	X							13													•
s	S-18	100				Silty CLAY; light grayish b	rown.	11				39		48	26	2.60			96	94	93	
S	S-19	100		CL		86% low to medium plasticity contains traces of fine sand little amount of gravel and c sand; VERY STIFF to HARI	d and oarse	11	13	13												
S	S-20	100						14	14	20												
1	1		M 2n	AN/ d F	GE	ECHNOLOGY AND MENT CORPORATION Prudential Bank Building, labini St., Ermita, Manila		CH	INI	E:	ACKER AC J. MADERA OR: M. ESTAU		_		ND:	v	VS - W	PLIT SP IASH S UNDIST	TURB	LE ED S/		

Figure 5-3-3 (107/221) BORING LOGS (PHASEI)

SHEET 2 OF 2

		_			NAL BOREHOLE LC								DF	TE	ST	R	ES	UL	TS	1	ML	W	- 2	0
		-			larikina River Channel I			oj.	(GROUND (MLLW = Z	ero Da	atum)						OF						_ '
CAT	ION:		١	S	ide Offshore, Marikina R	liver				STATION WEATHEI			<u>11 +</u> F A					MEAS						
INO:	BML	W-2	0	DAT	E DRILLED: 20 - 22 Decen	nber	200	00	-	OORDIN		:		1782	21.2	_		N,		5091				E
T	1.	-					в	LOW						ST.		ATTER	RBERG			NFINED		EVE A	NALY	/SI
SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION			15 cm	15 cm	PENET	(SPT) N-VALU	N TES	ST	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/	LIQUID %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	STRENGTH kg/cm ²	STRAIN Æ. %	4		40	T
1 5S-21 2 5S-22	67		SM		Silty SAND; dark gray; 30% r plastic silt; 65% fine sand with amount of medium sand; DEN TO VERY DENSE.	little		<u>19</u> 22						20				2.63			100	99	95	
ss-23	89						21	22	27															
4 SS-24	X		сн		Sandy CLAY; dark gray; 16% sand with traces of medium s and little amount of gravel; 6	and 59%	19	15	15		1			45		59	_39	2.61			95	94	85	
5 SS-25	100				high plasticity clay; VERY ST	IFF.	10	12	17															
6	120				End of Borehole (25.00 m)																			
7	100																							
8	100				<i>č</i> – 7 s																			
9	89	0																						
0	.89	Ń																						
11	-																							
2	65																							
	44																							
	57 3																							
3 88-16	100																							
7 58-17	100	1																						
3 88.10	100	V.																						
9 65.19	100	C																						
		M. 2n	AN/	AGE	ECHNOLOGY AND MENT CORPORATION Prudential Bank Building, Mabini St., Ermita, Manila	MAC DRI SUF	LL	ER	: .	J.	MA	DEF	ACE RA AUR		-		ND:	W U	S - SP /S - W/ DS - U R - CC	ASH S.	AMPL	E ED SA		E

Figure 5-3-3 (108/221) BORING LOGS (PHASEI)

201	EC	т:	Pas	sig	Marikina River Cha	nnel Imp). Pr	oj.		ND EL		um)	9.97	70	D	EPTH	OF	WATE	R:	2	.90	
CAT	101	۷:	L. \$	Side	e Offshore, Calump	ang, Mar	ikina	a				11							D: _(
NO	BN	1LW	-21	DA	TE DRILLED: 28 Dec	c 02 Jai	n. 20	001	c	 HER:			A I R 51744	2.25	-		NEAS		D:			5
-	(%)	T					E	BLOV (SP1	vs				U. ST		ATTE		1		NFINED	SIE	VE A	
SAMPLE NO.	RECOVERY (SAMPLE			DESCRIPT	ΓΙΟΝ	15 cm		15 cm		ATION SPT)	TEST	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	STRENGTH kg/cm ²	-	4	10	
SS-1		X			Silty CLAY; grayish brown; to fine sand with little armou high plasticity silty clay; S	nt of gravel; 88	ie % 2	2	2				31				2.60			96	95	
SS-2 SS-3		X			Sandy CLAY; brow light brown; 14% find high plasticity clay VERY STIFF.	e sand; 829	6	6 9					36		60	33	2.61			99	98	
		X	2																			
SS-4 SS-5	100		Cł	1	Sandy CLAY; brow light brown; high plast sand; STIFF to HAR	icity clay; fin	o e	11			1											
SS-6	100				Gravelly CLAY; brow angular gravel with lit coarse to fine sand plasticity clay; HARD	tle amount of ; 81% hig	of 14	1 19	19				29		61	27	2.61			89	85	
SS-7	100		1				13	3 19	21				-	-								
SS-8	100				Sandy CLAY; brown to fine sand with littl	e amount o	e of	3 29	23				-									
SS-9	89				gravel; 77% high pl HARD.	asticity clay	21	24					_29	-	63	33	2.61			97	92	- 1
SS-10 SS-1								5 <u>25</u> 1 <u>33</u>	17													
SS-1	57		м		Sandy SILT; gray; 19 76% low plasticity amount of gravel. H/	silt with littl		4 26	25				22				2.61			97	96	
SS-1:	56	X					15	5 19	27				-									
SS-1 SS-1		A	GN		Silty GRAVEL; gray medium sand; 41%	low plasticit		2 17	27				21				2.62			51	51	-
SS-1	5 100			+	silt; 49% angular gr DENSE TO DENSE.	avel; VER		0 18	17		1								,			
SS-1	100	X					12	2 15	17				-									
SS-1		X	C	н	Silty CLAY; gray plasticity clay with tr sand; HARD.	; 93% hig aces of find	h <u>1</u>	1 17	20				36		67	41	2.60				100	
0 55-2		A	1					<u>6 17</u> 3 15					-									
•			MAN 2nd	Flo	TECHNOLOGY GEMENT CORPORA or Prudential Bank Bu Mabini St., Ermita, M		RILI	HIN	IE: R:	 J. I	MA	ER AC	24	_			v	VS-W JDS-U	PLIT SF ASH S JNDIS ORE S	TURB	E ED S	

						~~							~				-		-	HEE		2		F	
			_			والقاطوي وتصفيك	1000		-	GROUN		Southern State	0	- 1	E	ST	T			Constanting of the	and the state of the		-	- 2	1
					Iarikina River Channel				1 (MLLW	= Zero	Datu				0					R:		2.90 an.		1
OCATI	ON:	1	S	ide	Offshore, Calumpang, I	Marik	kina	<u>a</u>	1	NEAT				FAI			ТІ	ME I	MEAS	URE	D:	4:	00 1	PM	
H NO:	BML	W-2		AT	E DRILLED: 28 Dec 02	Jan.				OORE	DINAT	ES:		1617 T	442	2.25		N			095	1			
	(%) E	BOL	ATIO					(SP1			STAN	DARC)	TOIO	% 021 021	g/cc	ATTER	RBERG	0.	COMP	FINED			NALY NG SI	
SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION		15 cm	15 cm	15 cm			(PT) (ALUE)			CONTENT	TOTAL UI WEIGHT,	LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	STRENGTH kg/cm ²	STRAIN & , %	4	10	40	2
1 55-21	100		SM		Silty SAND; gray; 46% plasticity silt; 50% fine s	low and;	12	15	21					-	19				2.62			98	97	96	Ī
SS-22 SS-23	X				DENSE.			18																	$\left \right $
SS-24	X		CL		Sandy CLAY; gray; 37% sand; 62% low to medium pla clay; HARD.	fine sticity	Τ	14						-	33		48	30	2.61				100	99	T
<u>SS-25</u>	100				End of Borehole (25.00 m)		14	18	26		+				-										+
6 7 8 8 9 9 0 0 11 2 2 3 4 5 6 6 7 7 8 8 9 9 0																									
	Ц Ц	M 2r	AN/	AGI	TECHNOLOGY AND EMENT CORPORATION r Prudential Bank Building, Mabini St., Ermita, Manila	MA DR SU	RILL	.EF	२ :	 OR: _	J. I	MAC M. E			Ē	-	- 1		V L	VS - W IDS - U R - CO	LIT SP ASH S JNDIST DRE SA	Sampi Turb Ampl	LE BED SA	AMPL	

Figure 5-3-3 (110/221) BORING LOGS (PHASEI)

OJ	EC	T:	Pas	ig-N	larikina River Channel	Imp.	Pro	oj.		GROUN			m) <u>+</u>	10.0	12	D	EPTH	OF	WATE	R: _	2	.50	
		1			Offshore, Calumpang,				5	STATIO	NN	D.:	12 +	000		I.				D:			
					E DRILLED: _04 - 05 Ja					VEATH OORD				IR 1754	1.10	-		MEA:		D:			IM
	(%)	T					8	.OW	s					1.	}	ATTER	RERG		UNCO	NFINED P. TEST	SIE	EVE AN	VALY
SAMPLE NO	RECOVERY (LOG \$YMBOL	CLASSIFICATION	RQD	DESCRIPTION	1	15	15 cm	15		IETRA {S (N-V	NDARD ATION 1 SPT) (ALUE) 30 40	FEST	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	LIQUID %	PLASTICITY INDEX, %	SPECIFIC GRAVITY		T	4	ASSIN	40
SS-1	89		1				3	4	6					38		81	49	2.60				100	99
SS-2	89		3				5	8	9														
SS- 3	89				Silty CLAY; light brownish g brown; 92-98% high plastici	tv siltv	8	11	19					27		65	39	2.60			100	99	97
SS-4	89		СН		clay with little amount of fine STIFF TO VERY STIFF.	sand.	11	12	15					_									
SS-5	89						5	8	10					-									-
SS-6	89						5	9	10					31		69	42	2.60					100
SS-7	89		1				6	7	10					-									
SS-8	89	X	ML		Sandy SILTY; brown; 539 sand with little amount of m sand; 45% non-plastic silt;	edium		8			N			-									
SS-9 SS-10		X			STIFF TO HARD.	VEIXI		12						29		-		2.63				100	98
SS-11								13			/	$\left \right\rangle$											
SS-12	89		сн		Silty CLAY; brown to dark 90% high plasticity silty cla traces of fine sand; STIF VERY STIFF.	y with			7		1			39		62	38	2.60			100	99	97
SS-13	89						10	11	.11														
SS-14	89		ML		Sandy SILT; dark gray; fine non-plastic silt; VERY STIFF Sandy CLAY; dark gray; 16	=. % fine	6	8	9		1												
SS-15	89		1		sand; 85% high plasticity VERY STIFF.	clay.	9	8	11					33		61	40	2.60				100	99
SS-16	89						11	16	21			\sum		-									
SS-17	89		СН		Silty CLAY; dark gray to g brown; 99% high plasticity silt	rayish ty clay.	13	18	21														
SS-18					HARD.		10	16	18					29		74	41	2.60					10
SS-19 SS-20								18															
		21	IAN/		ECHNOLOGY AND MENT CORPORATION Prudential Bank Building Jabini St., Ermita, Manila	000		ER	E: : .		E.	RIE	R ACI				ND:	v	/S - W IDS - U	LIT SP ASH S JNDIST	AMPL	E ED SA	

Figure 5-3-3 (111/221) BORING LOGS (PHASEI)

100

																				SHEE		2	OF	- 2	2
			-		AL BOREHOLE L	A DECK OF A			1		and the second	Contraction of the local division of the loc		OF	TE	ST	R	ES	UL	TS		ML	w.	- 22	2 <i>b</i>
OJ	ECT	: P	asig	-M	arikina River Channel	Imp.	Pre	oj.	(MLL		Zero	Datum						OF \						m
					Offshore, Calumpang, I				1				.:)			MEAS						1_
	BML	N-22	2 DA	TE	DRILLED: 04 - 05 Jar	nuary	20	01			ATHE		S:		1754	11.1	_		MEAS	400-00-	0999				E
NU:	2 Same and a second			Τ			В	LOV	vs						1	1	1		1	r	FINED	SIE	EVE A		SIS
SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQU	DESCRIPTION		15	Γ	15		PENE	ETRAT (SF	DARD FION TE PT)	ST	NATURAL MOIST. CONTENT. %	TOTAL UNIT WEIGHT, g/cc	IMIT, %	ASTICITY DEX, %	SPECIFIC GRAVITY	STRENGTH O	STRAIN M % .		ASSIN 10	NG SIE 40	
SP	X	10	СН	+	Sandy CLAY; grayish brown; fine sand; 61% high plasticity HARD.	38% clay;	11	16	19					50	27			ਦੋ ≚ 27		S			100	99	
IS-21	89 83		sw		Gravelly SAND; brown; 12% plastic silt; 33% sub-rour gravel; 16% coarse sand;	nded 25%		24	26										2.01						0
S-23		1	GH		medium sand; 14% fine s VERY DENSE.	and;		19 36	20 14						14				2.65			67	51	26	12
55-24			C1 51 51		End of Borehole (23.91 m)		43	36	~ 6						14				2.65			67	51	26	12
		20	d Flo	JOR	ECHNOLOGY AND MENT CORPORATION Prudential Bank Building, labini St., Ermita, Manila	MA(DRI SUF	LL	.EF	R :	OR		E.	KER RIEZ I. EST VILLA		A			ND:	v u o	S - SP VS - W DS - L R - CC	ASH S JNDIS DRE S	Sampi Turb Ampl	LE IED SA	MPL	E

Figure 5-3-3 (112/221) BORING LOGS (PHASEI)

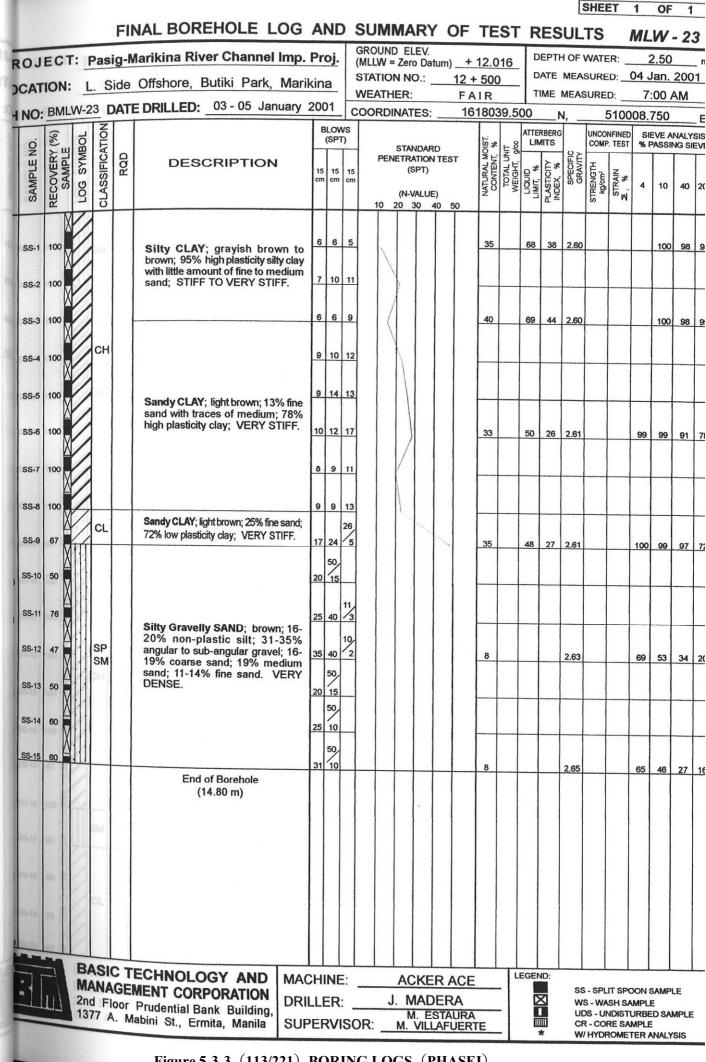


Figure 5-3-3 (113/221) BORING LOGS (PHASEI)

1	OF	2
	1	1 OF

OJ	EC	T:	Pa	sig-	Ma	arikina River Channel	Imp.	Pr	oj.	(GROUND ELEV. MLLW = Zero Datum)+	12.4	75					R:				
CAT	ION	:	L. 3	Side) (Offshore, Sta. Elena, I	Marik	ina	a		STATION NO.: 13)					:D:				1
	BM	LW-2	24	DAT	TE	DRILLED: 09 - 10 Jan	uary	20	01			1853	34.65	-		NEAS		D:		_	21/1	-
	(%)				T			B	LOV	vs		T		ATTE	RBFRG		UNCO	NFINED	SIE	EVE A	NALY	SI
SAMPLE NO.	RECOVERY (LOG SYMBOL	CI ASSIFICATION	ROD		DESCRIPTION		15 cm	15	15	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST.	TOTAL UNIT WEIGHT, g/cc		PLASTICITY INDEX, %	SPECIFIC GRAVITY		1		2ASSI	40	T
SS-1	100	X	SN			Silty SAND; brown; 12% plastic silt; 5-11% gravel; 7 coarse sand; 24-25% me sand; 35-52% fine sand; MEI DENSE.	-17% dium	5	6	6		25				2.63			95	88	64	
SS-2	100		4	+	+	DENSE.		4	6	7		16				2.63			89	72	47	╞
SS-3	89							6	8	9		29		63	38	2.60			100	99	96	-
SS-4	100		1					7	10	13		-										╞
SS-5	100		Cł	+		Silty CLAY; grayish brown 96% high plasticity clay with to of fine sand; VERY STIFI HARD.	races	12	16	19		-										
SS-6	100						-	14	14	20		34		65	43	2.60			100	99	98	
SS-7	89								18			-										
SS-8 SS-9	100 67		SF	,		Gravelly SAND; light gray,19% non-plastic s angular gravel; equal amount of medium to fir with traces of coarse sand; MEDIUM DENS	ne sand		11			21		61	35	2.60			98	98	96 44	
SS-10	100					Sandy CLAY; brown to gray	1: 13-		14			37		61	32	2.60				98		I
SS-11	100					19% fine sand; 75-84% plasticity clay; VERY STIFF HARD.	high	13	14	16												
SS-12	100					Silty CLAY; grayish brow	/n to	16	12	15		37		53	27	2.61			96	95	94	
SS-13	100		CF		-	brownish; 97% high plasticity VERY STIFF. Sandy CLAY: gravish brow	clay;	9	11	14		43		60	33	2.60				100	99	
SS-14	100				-	brown; 11% fine sand; 85% plasticity clay. VERY STIFF.		7	9	9		35		61	30	2.60			_98	98	96	
SS-15	67	ľ				Silty CLAY; grayish brow brown; 79-92% high plasticity with traces of fine sand; V STIFF.	/ clav	10	11	12		41		58	21	2.61			100	95	87	
SS-16			SN	+	+	Silty SAND; grayish brown; 11% angular 39% non-plastic silt; 24% medium sand; 20	gravel; 0% fine	9	12	14		33		65	33	2.60			100	99	99	-
SS-17 SS-18					+	sand with traces of coarse sand; DENSE		12	15	17		22			_	2.63			89	83	59	
SS-18			С			Sandy CLAY; grayish brown; medium sand; 16% fine sand traces of coarse sand and amount of gravel; 50% lo medium plasticity clay; HARI	l with little w to		<u>16</u> 19			29		46	20	2.62			96	88	66	
SS-20	67	Z						4.5	10	20												
		M. 2n	AN d F	AG loo	EM r F	CHNOLOGY AND ENT CORPORATION Prudential Bank Building, bini St., Ermita, Manila	MAC DRI SUF	CH	ER	E:	ACKER ACE J. MADERA I. LUENGAS M. ESTAUR/ DR: M. VILLAFUER	4	- -			W	/S - W/ DS - U	LIT SPO ASH SA NDIST	AMPL	E ED SA		E

Figure 5-3-3 (114/221) BORING LOGS (PHASEI)

1

0.1	ECT	() F	asi	g-M	arikina River Channel	Imp.	Pro	oj.	1	GROUND E MLLW = Ze	LEV.	um) +	12 4	75	D	EPTH	OF	WATE	ER:	-	W .	College and	
					t Side, Sta. Elena, Maril			-		STATION					D	ATE	MEA	SURE	D:	10 J	an.	200	1
SAL	ION:	-			DRILLED: 09 - 10 Dece		200	00		NEATHER		F A		4.0	-				D:			PM	_
NO:		1					В	LOW	/s	OORDINA	TES:		1853	1	ATTE	REPC	ı,	1	NFINED	-	500 EVE A		_
SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION		15	(SPT		PENET	(SPT)	D TEST	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	INIT, %	ASTICITY	SPECIFIC GRAVITY	COMP	STRAIN 8 % . %		PASSIN 10	NG SI	
SA	REC	2	CL	_						(N 10 20	-VALUE 30 4) 10 50	z		133	5 Å		STI	w M				
55-21	44		sw		Gravelly SAND; brown; 11% plastic silt; 40% sub-angular g 18% coarse sand; 19% me sand; 12% fine sand; V DENSE TO DENSE.	ravel; edium	17	22	28				_15				2.65			60	42	23	
5-22	44	ť.			End of Borehole (22.00 m)		19	21	27		-									-			+
58-3	60				(22.00 m)																		
554		0																					
55-4	50	10																					
55.5	85	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.																					
554 554	- 109		10																				
55.1	-80	0.0																					
88-10 88-10	8 4	0																					
15.1	44	.0.	GL											-									
	44	0																					
	9	1.4.																					
		21	d F	IGE	ECHNOLOGY AND MENT CORPORATION Prudential Bank Building, abini St., Ermita, Manila	DRI	LL	ER	: _		MAD	ACE		-		ND:	W U	/S - W DS - L	LIT SP ASH S JNDIST DRE S/	AMPL	LE ED SA		E

OJ	EC				larikina River Channel I					GROUN (MLLW	= Zer	o Da				6				WATE			.45	
CAT	ION				Offshore, Sto. Niño, M					STATIC				3 + 4 F A I I						SURE			:00	-
NO:	BM	LW-	25 [DATI	E DRILLED: <u>11 - 12</u> Janu	ary 2	200	01	. 0	OOR	INA	TES:		1619		5.10			I, _		5098		500	
· ·	(%)	OL	TION					SLOV						CT CT		L 8	ATTER	RBERG		UNCO	NFINED		EVE A	
SAMPLE NO.	RECOVERY	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION		15 cm				NETR (SPT) VALUI	N TEST	OM INGI ITAN	CONTENT,	VEIGHT, 9/	LIQUID %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	STRENGTH kg/cm ²	STRAIN Æ, %	4	10	40
SS-1	56				Sandy CLAY; gray; 12% fine s 86% high plasticity clay; V SOFT.	sand, ERY	1	0	1			Ī			67		73		2.60			100	99	98
SS-2	78		сн		Sandy CLAY; brownish gray gravel; 36% fine sand with tr of gravel and coarse sand; con	aces	2	3	7															
SS-3	89		1		little amount of medium to fine s 49% high plasticity clay; STIF Silty SAND; brownish gray; 33%	F	5	6	6						31		53	31	2.63			93	88	85
SS-4	89		SM		plastic silt; 62% fine sand w/ little au of medium sand; DENSE.	mount	11	16	14						26				2.63				100	95
SS-5	89	0					3	5	6	K	1			4	22		_		2,63			91	82	33
SS-6	89	0	GP GM		Gravelly SAND; brownish gra 22% non-plastic silt; 9-37% ang gravel; 6-23% coarse sand; 49% medium sand; 4-32%	gular 14-	7	7	7					ŀ	17	_	_		2.64			73	65	35
SS-7	89	0			sand; MEDIUM DENSE.	Tine	7	7	9					$\left \right $	+	_	-							
SS-8	89	0 1 0					6	7	9					-	22		_		2.63			86	80	42
SS-9 SS-10	89 89	V	сн		Sandy CLAY; gray; 12% fine sand with tra coarse to fine sand; contains little amo gravel; 68% high plasticity clay; MEDIUM DB	unt of	7	10	11					Γ	7				2.64				40	
SS-11	89	0			Sandy GRAVEL; gray; 7% plastic silt; 32% coarse to fine s	non-		9							40		59		2.61			97	88	80
SS-12	89				61% sub-angular to rounded gra MEDIUM DENSE.	avel;	15	13	12						9				2.65	•		39	27	15
SS-13	44		GW				18	20	18								_							
SS-14	44	0	SIVI		Sandy GRAVEL; gray; trace non-plastic silt; 14-15% coa sand; 12-14% medium sand	arse	14	15	28					-		-								
SS-15	44	0			7% fine sand; DENSE TO VI DENSE.	ERY	15	21	27						6	_			2.64			43	28	14
SS-16 SS-17	44		G					20	16					┝		-						_	-	
					End of Borehole (16.90 m)		16	35	5						6				2.65			37	23	_11
					и ж																			
		21	d F	Ige	ECHNOLOGY AND MENT CORPORATION Prudential Bank Building, labini St., Ermita, Manila	MA(DRI SUF	LL	ER	e: .		J. I.	MAI	ER A DERA NGAS			- Li - Li			W	5 - SPL S - W/ DS - U	ASH S/	AMPL	E ED SA	

Figure 5-3-3 (116/221) BORING LOGS (PHASEI)

SHEET		OF	
SHEEL	1	OF	1

CATION: L. Side Offshore, Sto. Niño, Marikina STATION NO: 13 + 975 OATE MASHED: 12 Jan. 20 NO: BMLW-26 DATE DRILLED: 12 - 15 January 2001 Value (Marine) 10 + 976 25 - 00 No: 000000000000000000000000000000000000	OJ	EC	т:	Pa	si	g-M	arikina River Channel I	mp. I	Pro	oj.	0	ROUND E	LEV. to Dat	um)+	10.9	75				WATE	_			
NO: EMLW-25 DATE DRILLED: 12 - 15 January 2001 00	-										5	TATION N	0.: _	13	+ 975		1				0.000			
Open construction BLOWE STREMON	NO	BM	LW-	26	D	ATE	DRILLED: 12 - 15 Janu	ary 2	200	1	-					8.2	_							IVI
Ss1 100 Silty CLAY: grayish brown to brownish gray: 91-92% high pleasing ray: 91-9	-	T	T			Τ			в	LOW	/s				1		ATTER	RBERG		UNCON	NFINED	SIE		
95-1 100 Silty CLAY; grayish brown to brownish gray; 91-92% high plasticity silly clay wi traces of medium to fine sand; FIRM TO STIFF. 2 2 2 95-1 80 Silty SAND; gray; 14% non-plastic sill; 11% medium sand; 75% fine sand; MEDIUM DENSE. 5 4 6 95-4 80 Silty Gravelly SAND; gray; 8- 10% non-plastic sill; 10-38% sub- rounded to angular gravel; 12-15% contains appreciable amount of non-plastic sill; sub-rounded to angular y SM for models sub-rounded to angular y SM for models sub-rounded to angular y SM models and the sam of SM monpatic all, 6% fine sam of SM monpatic all, 6% fine sam of SM monpatic all, 6% fine sam of SM monpatic all, 5% modium sam with taces of medium sam down sam y LEYY DENSE. 10 10 26 0 26 0 26 0 0 0 0	SAMPLE NO				CLASSIFICAL	RQD	DESCRIPTION		15	15	15	PENETF	ATION SPT) VALUE	TEST	NATURAL MOIS CONTENT, 9	TOTAL UNIT WEIGHT, g/o	LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	STRENGTH kg/cm ²				40
ss.2 ap medium to fine sand; FIRM TO 3 4 5 ss.3 ap SIty SAND; gray; 14% non-plastic sin; 11% medium and; 75% fine sand; MEDIUM DENSE. 2 4 40 56 35 2.60 1000 for sand; MEDIUM DENSE. ss.4 ap sity SAND; gray; 14% non-plastic sin; 11% medium sand; 75% fine sand; MEDIUM DENSE. r e a a ss.4 ap sity Gravelly SAND; gray; 6 r e a a ss.4 ap sity Gravelly SAND; gray; 6 a a a a ss.4 ap sity Gravelly SAND; gray; 6 a a a a ss.7 ap c sity Gravelly SAND; gray; contains appreciable amount of non-plastic sit; abro-rounded to angular gravel; fine to coarse sand; DENSE TO VERY DENSE. a <t< td=""><td>SS-1</td><td>100</td><td></td><td></td><td>Ч</td><td></td><td>brownish gray: 91-92%</td><td>high</td><td>2</td><td>2</td><td>2</td><td></td><td></td><td></td><td>40</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>100</td><td>95</td></t<>	SS-1	100			Ч		brownish gray: 91-92%	high	2	2	2				40								100	95
83-3 89 SM Sitty SAND; gray; 14% non-plastic sand; MEDIUM DENSE. 5 4 6 85-5 89 SM Sitty Gravelly SAND; gray; 8- 10% non-plastic sitt; 19-38% sub- rounded to angular grave; 12-138% sub- rounded to angular grave; 12-138% sub- rounded to angular grave; 12-12 15 2.64 81 69 85-6 89 SP Sitty Gravelly SAND; gray; 8- 10% non-plastic sitt; 19-38% sub- rounded to angular grave; 12-12 12 12 12 2.65 62 47 85-8 89 SP Sitty Gravelly SAND; gray; 17% angular grave; fine to coarse sand; DENSE 12 12 12 2.65 62 47 2 85-10 66 79 Sitty Gravelly SAND; gray; 17% angular gray: contains appreciable amount of non-plastic sitt; sub-rounded to angular grave; fine to coarse sand, DENSE TO VERY DENSE. 10 16 16 12 2.65 62 47 2 85-12 Gravelly SMD; gray; 17% angular grave; fine to coarse sond; 4% mon-plastic sit, 4% mealum with reace of fine;57% angular grave. 11 10 11 10 12 2.66 3 1 9 2.66 3 1 12 2.66 3 1 2.66 3 <td>SS-2</td> <td>89</td> <td></td> <td></td> <td></td> <td></td> <td>medium to fine sand; FIRM</td> <td></td>	SS-2	89					medium to fine sand; FIRM																	
85.5 89 7 6 6 85.6 89 Sifty Gravelly SAND; gray; 8- 10% non-plastic sift; 19-38% sub- rounded to angular gravel, 12-15% coarse sand, 21-38% medium fine sand 18-21% fine sand; MEDIUM DENSE. 5 6 9 85.7 89 Sifty Gravelly SAND; gray; 6- coarse sand, 21-38% medium fine sand 18-21% fine sand; MEDIUM DENSE. 9 7 8 85.9 5 6 9 12 12 13 85.9 56 76 12 12 13 85.9 56 6 10 16 18 9 7 8 10 16 18 9 7 8 10 16 18 12 2.65 62 47 2 9 2.65 62 47 2 9 2.65 82 47 2 9 2.65 83 81 1 9 2.66 3 1 1 9 2.66 3 1 1 2 9 2.66 3 1 2				5	SM		silt; 11% medium sand; 75%	astic fine							40		56	35	2.60				100	_99
Silty Gravelly SAND; gray; 8- 10% non-plastic silt; 19-38% sub- rounded to angular gravel; 12-15% coarse sand; 21-38% medium fine sand 18-21% fine sand; MEDIUM DENSE. 9 86-0 78 86-0 78 86-0 78 86-0 78 86-0 78 86-0 78 86-0 78 86-0 78 86-0 78 86-0 78 95 9 96 9 97 12 12 12 12 12 12 265 12 12 12 265 12 12 12 12 12 265 12 12 12 12 12 12 13 12 14 10 15 14 16 0 17 12 18 12 19	SS-5	89	X			、 	sand; MEDIUM DENSE.		7	6	6				33				2.63				100	89
SS-7 89 rounded to angular gravel, 12-15% corps sand, 21-38% medium fine sand 31-18 12-2.66 31-11 Stity Sandy GRAVEL; gray; conceptsic sit; 45% medium fine sand, 21-38% medium fine sand fine sand, 21-38% medium fine sand fine sand fine sand, 21-38% medium fine sand fine sand, 21-38% medium fine sand fine sand fine sand, 22-55 12-19-24 9 2.66 31-15 16 2.6	SS-6	89					Silty Gravelly SAND; gra 10% non-plastic silt; 19-38%	y; 8- sub-	5	6	8				15				2.64			81	69	31
SS-9 78 SM 12 12 13 12 12 13 SS-10 56 Silty Gravelly SAND; gray; contains appreciable amount of non-plastic silt; sub-rounded to angular gravel; fine to coarse sand; DENSE TO VERY DENSE. 10 16 18 SS-11 100 Gravelly Silty SAND; gray; 17% angular and sub rounded to sub-angular VERY DENSE. 11 129 5 Gravelly Silty SAND; gray; 17% angular and sub rounded to sub-angular VERY DENSE. 19 14 10 SS-12 100 GP GRAVEL; gray; sub rounded to sub-angular VERY DENSE. SS-13 78 O O GW GRAVEL; gray; complastic silt 10% coarse sand; 4% medium w/ traces of fine;7% angular gravel. DENSE. 19 37 2 SS-14 78 O GM Silty SAND; gray; 20% non-plastic silt 10% coarse sand; 4% medium w/ traces of gravel and coarse sand; 4% medium w/ traces of gravel and coarse sand; 19% medium sand with traces of gravel and coarse sand; 19% medium sand with traces of gravel and coarse sand; 19% medium sand with traces of coarse and fine sand; 61% angular to sub-rounded gravet; VERY DENSE. 19 22 7 SS-16 51 O GP Silty Sandy GRAVEL; brown 12% non-plastic silt 50 11 22 26 SS-17 50 Silty Sandy GRAVEL; brown 12% non-plastic silt 50 11 22 5 6 2.86 39 30			X		P		rounded to angular gravel, 12- coarse sand, 21-38% medium sand 18-21% fine sand; MED	-15% 1 fine							-									
SS-10 56 contains appreciable amount of non-plastic silt; sub-rounded to angular gravel; fine to coarse sand; DENSE TO VERY DENSE. 10 16 18 SS-11 100 Gravelly Silty SAND; gray; 17% angular and sub rounded gravel; 34% non-plastic silt; 91 11 29 5 SS-12 100 GRAVEL; gray; sub rounded to sub-angular VERY DENSE. 19 14 10 SS-13 78 Co GW GRAVEL; gray; sub rounded to sub-angular very DENSE. 19 14 10 SS-13 78 Co GW GRAVEL; gray; for non-plastic silt 10% coarse sand, 14% medium wit traces of fine,57% angular gravel. DENSE. 19 13 14 10 SS-14 78 SM Silty SAND; gray; 20% non-plastic silt, 45% medium sand; 19% fine sand with traces of gravel and coarse sand; VERY DENSE. 12 19 24 SS-16 51 Co GP Silty Sandy GRAVEL; brown; 12% non-plastic silt; 45% medium sand; with traces of gravel and coarse sand; 14% medium sand with traces of gravel and coarse sand; 14% medium sand with traces of gravel and coarse sand; 14% medium sand with traces of gravel gravel; VERY DENSE. 16 2.66 43 33 SS-16 51 Co GP Sity Sandy GRAVEL; brown; 12% non-plastic sil; 5% medium sand with	55-0	100	X .												12				2.65			62	47	26
SS-12 100 Gravelly Silty SAND; gray; 17% angular and sub rounded gravel; 34% non-plastic silt, 46% fine sand; MEDIUM DENSE. 19 14 10 SS-12 100 GRAVEL; gray; sub rounded to sub-angular VERY DENSE. 19 14 10 SS-13 78 9 2.63 83 81 8 SS-13 78 9 2.63 83 81 1 SS-13 78 9 2.66 3 1 2.66 3 1 SS-13 78 0.9 GRAVEL; gray; 10% non-plastic silt 10% coarse sand, 14% medium w/ traces of fine,57% angular gravel. DENSE. 19 37 2 9 2.66 43 33 SS-14 78 Silty SAND; gray; 20% non-plastic silt; 45% medium sand; 19% fine sand with traces of gravel and coarse sand; VERY DENSE. 12 19 24 50 16 2.66 43 33 SS-16 51 0 GP Silty Sandy GRAVEL; brown ;12% non-plastic silt; 19% medium sand with traces of coarse and; 61% angular to sub-rounded gravel; VERY DENSE. 19 23 5 50 50 50 50 50 50 50 50 50 50<	12.11						contains appreciable amou non-plastic silt; sub-rounde angular gravel; fine to co	nt of ed to arse				4	/											
SS-13 78 78 angular VERY DENSE. 19 37 2 1 2.66 3 1 1 2.66 3 1 1 2.66 3 1 1 2.66 3 1 1 2.66 3 1 1 2.66 3 1 1 2.66 3 1 1 2.66 43 33 1 2.66 43 33 1 2.66 43 33 1 2.66 43 33 1 2.66 43 33 1 2.66 43 33 1 2.66 43 33 15 6 2.64 92 16 2.64 92 84 16 2.64 92 84 17 0 GP Sitty Sandy GRAVEL; brown ;12% non-plastic gravel; 19 23 19 23 5 50 32 50 16	32.4	35					and sub rounded gravel; 34% non- silt, 46% fine sand; MEDIUM DENS	plastic SE .						\geq	79				2.63			83	81	80
SS.14 78 0:3 GM GM fine,57% angular gravel. DENSE. 12 19 24 SS.14 78 Sitty SAND; gray; 20% non-plastic silt; 45% medium sand; 19% fine sand with traces of gravel and coarse sand; VERY DENSE. 12 19 24 9 2.66 43 33 SS.15 67 GP Sitty SAND; gray; 20% non-plastic silt; 45% medium sand; 19% fine sand with traces of gravel and coarse sand; VERY DENSE. 31 15 16 2.64 92 84 SS.16 51 O GP Sitty Sandy GRAVEL; brown; 12% non-plastic silt; 9% medium sand with traces of coarse and fine sand; 61% angular to sub-rounded gravel; VERY DENSE. 19 23 5 6 2.66 39 30	SS-1	3 78		2			angular VERY DENSE. Sandy GRAVEL; gray;10% non-plastic:	silt 10%	19	37	1 /				1				2.66	3		3	1	1
SS-15 51 GP Sitty Sandy GRAVEL; brown ;12% non-plastic sit; 9% medium sand with traces of coarse and fine sand; 61% angular to sub-rounded gravel; VERY DENSE. 31 15 16 2.64 92 84 SS-16 51 GP Sitty Sandy GRAVEL; brown ;12% non-plastic sit; 9% medium sand with traces of coarse and fine sand; 61% angular to sub-rounded gravel; VERY DENSE. 27 16 2.64 92 84 SS-17 50 31 15 6 2.66 39 30			XÌ		GM SM GP		fine,57% angular gravel. DENSE. Silty SAND; gray; 20% non-plastic si	it; 45%		50					9				2.66			43	33	19
SS-17 50 32 15 6 2.66 39 30	3-5-55	00	X	(1)			gravel and coarse sand; VERY DEN: Silty Sandy GRAVEL; brown ;12% non	SE.			27				16				2.64	1		92	84	39
End of Borehole (16.85 m)	55-1	7 50	X		GM		and fine sand; 61% angular to sub-ro gravel; VERY DENSE . End of Borehole			50					6				2.66	3		39	30	21

F. 5-251

														Imp.			j.	(MLL	W =		o Da	atum		- 11.		5_				WAT					_
CAT	10	N:	_	L.	S	de	Off	sh	ore	, S	to.	Nif	io, I	Maril	kina	a	_				NN ER:				+ 51						SURE	1995)1
NO:	B	ML	N-2	27	D	ATE	DF	IL	E): _	16	- 17	Jan	uary	20	001	1						:		6199		.90			١, _		509				-
	-	-														BL	OW SPT)								ST.		8	ATTER	RBERG		UNCO	NFINE		EVE A		
SAMPLE NO.	RECOVERY (%)	SAMPLE	LOG SYMBOL			RQD		C	DE	SC	RI	РТ	ION			5	15 cm	15 cm			ETR. (3	spt) Valu	N TE		NATURAL MOI	CONTENT,	WEIGHT, g	LIQUID %	ERBERG MITS DIJIDAUS BELICITY SPECIEV SPECIEV		STRENGTH kg/cm ²	STRAIN & %	1	10	40	
SS-1	89	X	1	C	L		Si pla	ty stic	ity	Y; g silty	ray; clay;	low Fil	to me RM.	edium		2	3	3	1						4			45		2.60					100	2
SS-2	85			1											1	2	3	4							3	5				2.62					100	2
SS-3	89			c	н		Sa	ndy CLAY ; nd; 56-90%	gra	ay; 1	0-44%	% fine		2	2	2							38		_			2.62					100	,		
SS-4	89	X						RM		50 70	ingi	i þíð	sucity	r ciay,		2	3	4							39	,	-	53	34	2.61			-	\vdash	100	>
SS-5	89	X													ſ		2	3							-	+							-	-		
SS-6 SS-7	89	X					Si	ty s	AN %	D; g	ray;	46%	non-j	olastic E TO	T		2	3							4			55	34	2.60					100	
SS-8	85			s			M	DI	JM	DEI	ISE	•			1	2	4	13			1					+										
SS-9		X					to sul 24	bro ≻ar %r	vn; gula ned	17% r gra	non vel; 1	-plas	astic silt; % coarse s 4% fine s o brown; 42% nd; 22% ma 22% ma 23% ma 24% ma 24% ma 24% ma 24% ma 24% ma 22% ma 24% ma 24% ma 25% ma 2	e sand; sand; 2% non- medium	3	2 -	7	_					1	1	50		-			2.64			73	55	31	
SS-10 SS-11		X					pla: san	Silty SAND; brown plastic silt; 10% c sand; 23% fine san SANDSTON weathered; S Silty Sandy G non-plastic silt 13% medium s 51% sub-angu	iit; 1 % fi	0% c ne sa	oarse sand nd; VERY IE; bro SOFT.	e sand; <u>VERY E</u> brow			5	Т	10								3	,				2.62			97	87	65	-
CR-1	3	5	1.	S	Т		we		ere	d; S		r.			c	-	RI	IG				-														
SS-12 SS-13		X		G	ЭМ	и			Silty San non-plast 13% med 51% sub- Sandy SIL sand; 25%	silt; 10% m sand; 1 gular grav prownish,grav ne sand w/	% c	EL; brown; 6 coarse s 12% fine s avel; DEN gray 14% m // little amo	sand; sand;	ľ	T	19						ľ		40	3				2.64			49	39	26		
SS-14		X		м	L		sub-angula y SILT; brown ; 25% fine sa e sand; 57%	,gray w/ lit			ne sand DENSE. 6 medium amount o			Т	46								30	5				2.62			99	96	82	-		
	SS-15 100 SS-16 100		s	м		22° gra	6 nel;	n-p	astic	silt;	31% and;	sub-a	ount of HARD. brown; angular nedium	2		41	9/4							48	3	_			2.64			69	56	38	-	
	10		1					-		nd c		reho				4					-			+		+								\vdash		-
			2	nd	FI	BASIC TECHNOLOGY AND MANAGEMENT CORPORATION 2nd Floor Prudential Bank Building, 1377 A. Mabini St., Ermita, Manila								MA DF SL	RIL	LE	R	: _			E.	R	ER IEZ	Ά						V	IS - SF VS - W JDS - U	ASH S	SAMP	LE BED S/		

Figure 5-3-3 (118/221) BORING LOGS (PHASEI)

OJI	EC	Т:	Pas	sig-	Ma	arikina River Channel Imp	. Pr	oj.	(1		Zero	Dat	um) <u>+</u>							R:			200	
CAT	ION	1:	Ł.	Sid	e	Offshore, Malanday, Maril	kina		1	TATIO).: _		+ 100)	1				D:				
	DM		8	DAT	TE	DRILLED: 17 - 19 January	200)1		DORDI		ES:		52048	31.10	00	N	I,	Ę	5096	99.2	250		
NU.	-	Τ.			T		[e	(SP						ST.	0	1 18.4	RBERG			NFINED		VE AN		
SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CI ASSIFICATION	ROD		DESCRIPTION		15	5 15 n cm		(S) (N-V	TION PT> ALUE	TEST	NATURAL MOIST CONTENT, %	TOTAL UNIT WEIGHT, g/cc		~	SPECIFIC GRAVITY		STRAIN A. %	4	10	4(
SS-1	-		CI	T		Sandy CLAY; gray; 12% fine sand 87% high plasticity clay; FIRM TC STIFF.								39		66	44	2.60				100	9	
SS-2	00		1	t	+		5		6					34		44	23	2.61			99	99	9	
SS-3 SS-4	2		c			Sandy CLAY; brown; 33% fin sand; 65% low plasticity clay VERY STIFF.	1.	7	10															
SS-5	89	XII		-	+			ε	3 10							-							_	
SS-6	89	X				Silty SAND; brown; 31% nor plastic silt; 66% fine sand with littl amount of medium sand MEDIUM DENSE TO DENSE.	e 9 I;		2 13			/		31				2.63				100	9	
SS-7 SS-8	89	X	SI	M		Silty Gravelly SAND; brown; 129	6 20		5 26 23 7 13															
SS-9	89	X				non- plastic silt; 15% sub-angula gravel; 18% coarse sand; 399 medium sand; 16% fine sand VERY DENSE TO DENSE.	6	2 1	5 11		5			19				2.64			85	67		
SS-10				7 GW			Silty SAND; brown; 20% sub-angular grav 31% non-plastic silt; 14% coarse sand; 22 medium sand: 13% fine sand: DENSE.	el; %		7 <u>18</u> 5 16			$\left \right\rangle$		29				2.64			80	66	
SS-1 SS-1		X o				Gravelly SAND; brown; 39% sub angular gravel; 27% coarse sand 18% medium sand; 10% fine san)- 1, 2 d		20 20 10					10				2.65			61			
SS-1:	3 33		O GM		with 6% non-plastic silt; VER DENSE TO DENSE. Silty SAND; brown; non-plast	1	6 1	9 28					-	-		-			-					
SS-1 SS-1		A C	1	+	_	silt; fine to coarse sand. DENSE Sandy GRWEL; brown; 16% coarse sand; 15 medium sand with traces of non-plastic silt a	1 i% nd		7 19			<		-			-						-	
	5 44 6 52	X		н		fine sand; 57% sub-angular gravel; DENSE. Sandy CLAY; gray; 32% fine sand wi traces of medium sand; 61% hig plasticity clay; HARD.	th Jh	T	24 26 27 23 14					53		63	42	2.6			43	27		
						End of Borehole (15.99 m)																		
			BA	SIC	GE	MENT CORPORATION	IAC				a sea of the second second			CE_		LEG	END:		SS-S WS-1					

Figure 5-3-3 (119/221) BORING LOGS (PHASEI)

SHEET 1 OF 1

			_		-	IAL BOREHOLE LO	-	-	-	T	CRAI		EV			-		1		_	-	R		° L - .30	8	_
	CAT		-			larikina River Channel I Bank, Ugong Sur, Pasig			>j.		(MLLV STAT	V = Zer ION N THER:	o Dai O.:	2	+ 14 + 0 F A I	00	36	D	ATE 1	MEAS	URE	D: <u>2</u> D: _2	8 F			1
BH	NO:	BN	IRL-8	3_0	DATE DRILLED: 28 February 2001 COORDINATES: 1611,711.											1.1	00	N	,	5	07,9	31.		E		
ε	Ň	لر ۲ (%)	SYMBOL	ATION					LON SP				NDAR		- I all		LIN SON		RBERG			NFINED TEBT		VE AI ASSIN		
DEPTH, m	SAMPLE NO.	RECOVERY (%)	LOG SYN	CLASSIFICATION	ROD	DESCRIPTION		15 cm		15 577	5 (SP		spt) Value			NATURAL MOIST.	TOTAL U WEIGHT.	LIMIT, %	PLASTICITY INDEX #	SPECIFIC GRAVITY	STRENGTH kg/cm²	AIRAIN *	4	10	40	2
1 2 3 6 6 7 7 8 8	53-1	89		СН		Silty CLAY; gray; 94% I plastic clay; traces of fine s SOFT.	high and;	1	٥	1					_	74		84	59	2.60					100	19
- 2	6 8-2	100	X	-		Gravely SAND; brownish g 43% gravel; with little amou	gray;	1	1	a	1	1			-							-				
- 3	SS-3	89	X	sw		non-plastic silt; 24% coa sand; 21% medium sand; fine sand; VERY DENSE.	arse	5 50, 12		30				~		57				2,65			57	33	12	
- 4	SS-4 CR-1	83 38	4 6 4 6	Ts	12	Sandy TUFF; gray; hi weathered; moderately; HAF	ghly RD.			ING																
- 6	CR-2	45			0	SANDSTONE; brown; compl	letely	c	DR	ING								-	-					_		
-7	CR-3	34			0	weathered; VERY SOFT.	olog	C	PR	ING									_							1
- 8 	CR-4 CR-5	29 57		8T	0	SANDSTONE; brownish g completely weathered; Vi SOFT.	ray; ERY																			
- 9 - 10	CR-6	69			14	PANDOTONE, areas and		C	DR	ING																
	CR-7	62			62	SANDSTONE; gray; coa grain sandstone; modera weathered; HARD.	stely	C	DR	ING	-															
-12	CR-8	54	0.0	CG	44	Tuffaceous CONGLOMERATE; light with occasional gravel size pur	t gray mice;		OR	ING						7	1.49				37.026	2.148				
-13 -	CR-9	27		ST	18	moderately weathered; HARD, SANDSTONE; light gray; me grain; highly weathered; M rately HARD.	dium Iode-																			
-14 - -15	CR-10 CR-11		0.0	CG	11	Tuffaceous CONGLOMERATE; light with occasional gravel size pur highly weathered; Moderately H/	gray; mice.			ING																
11 12 13 14 15 15 15 16 17 18 19 19 20						End of Borehole (15.00 m)																				
20			M 2n	AN/ d F	GE	ECHNOLOGY AND MENT CORPORATION Prudential Bank Building, abini St., Ermita, Manila	MA DRI SUI	LL	EF	२: ह	OR:	A	ΓEN	ER A	FE		_			V U C	/S-W DS-L R-CC	LIT SP ASH S INDIST WRE S/ ROME	ampl Iurbi Mpli	.e ed sa e	MPU	E

Figure 5-3-3 (120/221) BORING LOGS (PHASEI)