							Swissbo	ring i	D <b>ra</b> rs	COPP. Ltd. CEPA SICA SHORY TO LOG OF BORING		REHO	ILE: she	BS-1	6 2/2	
					El Ita					SOIL INVESTIGATION OFF SHORE	DRIL	L RIG	: LY-34			
DEP							ORDINA			13*19' 54.8" - 87* 49' 8.2"	-	LER:		ssbor		
ŲC.		SOIL	14,90 SAM	~~~	m Ka	BU	TOM SE	AL	EVE	-4.67 Chart Datum Level		E (STAF GED I	RT - FINISH	): 	19-2	)/1
TYPE	NUMBER	18 от	33 cm	55 E2		up D	G	EO	TEC	NICAL INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR			Rodolfo	Alvara	ido	
SAMPLE	BAMPLE	1 BET	2 SET	3 BET	N VALUE	RECOVERED			Sv	SWISSDORING authoring Overseas Corporation Ltd.	INSPI	ECTO	R I	Dr. Pu	ıcai Ya	ng
		RO	CKC	ORE	<u> </u>	r			<del>- 1</del> -	<u> </u>	<del> </del>		· · · · · · · · · · · · · · · · · · ·		<del></del>	
CORE BIZE	RUN NUMBER	RUN LENGTH IN	RECOVERY om	* RECOVERY	Rab am	* Rab	כסר ש	OEPTH IN m	SAMPLE TYPE GRAPHIC LOG	DESCRIPTION	-	PT TE	ST 0 50 >50	N 2	RC 0 40 6	
SPT	8	10	14	24	30	20	_	-	\[e			$\prod$		T	TT	T
×1	-		•	-4ª.	38	30	-	-	T				<b> </b>	38		
на	9	55	0	D	o	0	-15.67	11	S.		1		$N \square$			
SPT		24	24	40	ا می	ار	_	-	\\€	7 da 451 da 651			X			
200	.7	64	-21	40	>50	30	-	-	<b>b</b>	From 11.45 to 14.30 m				-50		
		55	_		0	0	-16.67	12	) (206	Gravel, brown to red, consists of angular to subangular rock	4					ĺ
SPT	10	30	10/50	) 	>50	30	_	-	Λ,	fragments up to 100mm in size, matrix was not recovered				×50		
									1							ļ
но	11	70	35	50	0	0	~17.67	13	Choch							
ł								-	K	Gravel 40% to 50%, fines 50% to 60%						
							-	_	C	Glaves नवक to 30%, IEEES 50% to 50%						١
HQ	12	100	40	40	0	D	-18.67	14								
1							-	-	Q	14.3 m				-		
ĺ								_	Ç	Clayey sit, tuffaceous, reddish brown, soft, weak, poorly cemented						
но	13	90	90	100	٥	-0-	-19. <del>6</del> 7	15	F	water laid						
							-	_		14.90 m END OF BORING	1			1		
}							•							İ		
								16						j		ļ
										•						
																1
Į								17					+ $+$ $+$	1		
								-								
.								_								
1								18								
								19								
										•						
)									1.						]	-
í	1				1	l	-24.67	20				1	1 1 1	- 1		ŧ

	- ······			<del></del>			Suda et a	elan Ouse	·······	Corp. Ltd. CEPA JICA Study Ti					
							OWNERDO	ARMS CARE	19363	COPPA JICA SHIRLY TO LOG OF BORING	-				
										•	B	IOREHOLE:			
		NIF			_					SOIL INVESTIGATION OFF SHORE	Ti	DRILL RIG: LY-	sheet	1/	3
COL	~	RY.EI	22.00			_	ORDINA			13°19′ 51.2" - 87° 49′ 2.0"	Ţ	DRILLER:	Swissb	oring	
Der		SOIL			m G	LBO	TOM SE	ALEVE	EL_	-4.67 Chart Datum Level	_	DATE (START + FI LOGGED BY:	MISH):	18-2	20/10/01
TYPE	NUMBER	ts cm	an can	45 cm		G.	G	EOTE	CH	NICAL INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR			olfo Atv	arado	
SAMPLE	SAMPLE	1 SET	2 SET	3 8ET	N VALUE	RECOVERED		s	wi	SWISSBOTING		NSPECTOR	Dr.	Pucai Ya	ang
	·	RO	CK C	ORE											
CORE BIZE	RUN NUMBER	RUN LENGTH IN	RECOVERY am	RECOVERY	D cm	Rap	Ę	BAMPLE TYPE	GRAPHIC LOG	DESCRIPTION		SPT TEST		R	GGC
8	2 2	2 8	REC	*	Rab	\$	ਲੁੱ	4 8	<u>₹</u>		10	0 20 30 40 50	>5C N	20 40	60 80 too
HQ	1	55	0	0	o	0		1		Clay with traces of sand, greenish gray, very soft consistency, hig water content, high plasticity, moderate dry strength.					
SPT	1 2	30	0	0	1	45 0	-5,67	1					1		
	-	3			-	Ů	-	- - -		Shelby #1.					
							-6,67	2							
HQ	3	55	0	0	0	o	_				1				
SPT	2	1	0	0	1	45	-7.67	-\							
HQ	4	30	0	0	0	0	~				r		1		
							~	-		Shelby #2.					
							-8.67								
HQ	5	55	0	0	0	0	-								
SPT	3	1	0	1	1	45	-9.67	± <b>√</b>					1		
HQ	6	55	0	0	0	0		-							
SPT	4	1	0	_1_	_1_	45	-10.67	-  -  -					1		
HQ	7	55	0	0	0	0	-								
SPT	5	1	1	1	2	45	-11.67						2		
ΗQ	8	55	0	0	0	0	_								
SPT	8	1	1	1	_2_	45	-12.67	<b>ĕ</b>					2		
HQ	9	55	0	0	0	0	_								
SPT	7	1	1	.1	2	45	-13.67	•₩					2		
ΗQ	10	55	0	0	0	0	-								Parlament Principle Section 1
SPT	8	1	1	1	2	45	-14.67	10					,		

CLIENT: NIPPON KOEI INJ  SOIL INVESTIGATION OFF SHORE  COUNTRY: EL SALVADOR  COORDINATES: 13°19°51,2°-87°49°2.0°  DEPTH 22.00 m BOTTOM SEA LEVEL: 4.67 Charl Dahm Level  DATE (START-FINISH): 18:  SOIL SAMPLING  COORDINATES: 13°19°51,2°-87°49°2.0°  DATE (START-FINISH): 18:  SOIL SAMPLING  COORDINATES: 13°19°51,2°-87°49°2.0°  DATE (START-FINISH): 18:  COGGED BY:  COGGED BY:  SWISSDOPTING  INSPECTOR Dr. Pucal You be a few of the purpose of t																
Columbia   Social Notes   Social N	Γ_	· 	···			*		Swissbo	ving (	Yerset	s Corp. Ltd. CEPA JECA Souty Yee	-	<del></del>	<del></del>	i	<del></del>
CLIFIN: NIPPON NOB IN   SOIL INVESTIGATION OFF SHORE											LOG OF BORING	Đ	30REHO			17 <i>21</i> 3
DESCRIPTION	_												DRILL RIC			
SOL SAMPLING    Sol   Sampling   Sampling   Sol   Sampling   Sol   Sampling   Sampling   Sol   Sampling   Samp										VEI ·						ing 18-20/1
Symbol   S		_										-			- 0.	10-201
ROCK CONE	TYPE	NUMBER	1	1			E 6	GEOTE	CHI	NCA	L INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	₹		Rodol	fo Alvara	ecio .
ROCK CONE	SAMPLE	SAMPLE	SET	SET	3E7	VALUE	ECOVERED						NSPECTO	XR.	Dr. Pi	ucai Yang
DESCRIPTION   SPT TEST   Representation   SPT TEST   SPT TEST   Representation   SPT TEST   SPT TEST TEST   SPT TEST TEST   SPT TEST TEST   SPT TEST TEST TEST   SPT TEST TEST TEST TEST TEST TEST TEST	-	<u>!</u>	<u> </u>	CK C	ORE	<u>.                                    </u>	1 €			.,	salarang Creates Corporation Lat.					
HO 11 55 0 0 0 0 0 0	ONE GIZE	CN NUMBER	LENGTH IN CO	μo	RECOVERY	#5	i	# 7c	ETH (N m	APHIC LOG	DESCRIPTION		THE	EST	]	RQD
SPT 9 1 2 2 4 45 -15.67 11  HO 12 55 0 0 0 0 0 0  SPT 10 2 3 5 8 45 -16.67 12  HO 13 65 0 0 0 0 0  SPT 11 2 2 3 5 45 -17.67 13  HO 14 45 0 0 0 0 0  SPT 13 2 3 3 6 45 -18.67 14  HO 15 90 0 0 0 0 0  SPT 13 2 3 3 6 45 -18.67 14  HO 16 55 0 0 0 0 0 0  SPT 13 2 3 3 6 65 -19.67 15  HO 17 70 0 0 0 0 0  SPT 14 3 12 8 20 45 -21.67 17  O  SPT 14 3 12 8 20 45 -21.67 17  O  SPT 15 1550 -50 10 0 -23.67 19  SPT 15 1550 -50 10 -23.67 19  Tuff, reddish brown, weak, poorly cemerated, consists of sandy silk tuffaceous, contains some rock blocks up to 50mm in length  Tuff, reddish brown, weak, poorly cemerated, consists of sandy silk tuffaceous, contains some rock blocks up to 50mm in length					_		$\vdash$		-	00	Same material as above	ť	9 20 30	40 50 >	5C N 2	20 40 60
SPT 10 2 3 5 8 45 -16.67 12  HO 13 65 0 0 0 0 0 0	SPT	9	1	2	2	4	45	-15,67	11	V					4	
SPT 10 2 3 5 8 45 -16.67 12  HO 13 65 0 0 0 0 0 0  SPT 11 2 2 3 5 45 -17.67 13  HO 14 45 0 0 0 0 0 0  SPT 13 2 3 3 6 45 -19.67 14  HO 15 90 0 0 0 0 0  SPT 13 2 3 3 6 45 -19.67 14  HO 15 55 0 0 0 0 0 0  SPT 14 3 12 8 20 45 -21.67 17  O SPT 14 3 12 8 20 45 -21.67 17  HO 19 55 0 0 0 0 0 0 -22.67 18  Gravel 0% to 55%  Fines 45% to 100%  SPT 15 1550	но	12	55	0	0	o		_	-			$\ $				
SPT 11 2 2 3 5 45 -17.67 13  HO 14 45 0 0 0 0 0 0  SPT 12 2 2 4 6 45 -18.67 14  HO 15 90 0 0 0 0 0 -20.67 16  HO 15 55 0 0 0 0 0 0  SPT 13 2 3 3 6 45 -19.67 15  Gravel and sand, consists of subangular to sub rounded volcanic blocks up to 60mm in length (petities size), matrix was not recovered blocks up to 60mm in length (petities size), matrix was not recovered blocks up to 65mm in length (petities size) matrix was not recovered blocks up to 65mm in length (petities size).  Tuff, reddish brown, weak, poorly cemented, consists of sandy site tuffaceous, contains some rock blocks up to 50mm in length		Γ	<b>†</b>		<u>├</u>	一	<u> </u>	-16.67	12						8	
HQ 14 45 0 0 0 0 0 0 0	НΩ	13	65	0	0	0	0	~								
SPT 12 2 2 4 6 45 -18.67 14   SPT 13 2 3 3 6 45 -19.67 15   SPT 13 2 3 3 6 45 -19.67 16   SPT 14 3 12 8 20 45 -21.67 17   SPT 14 3 12 8 20 45 -21.67 17   SPT 14 3 12 8 20 45 -21.67 17   SPT 14 3 12 8 20 45 -21.67 17   SPT 14 3 12 8 20 45 -21.67 17   SPT 14 3 12 8 20 45 -21.67 17   SPT 15 1550	SPT	11	2	2	3	5	45	-17.67	13	V					5	
HQ 15 90 0 0 0 0 0 0 15 15 15 15 15 15 15 15 15 15 15 15 15	HQ	14	45	0	0	0	0									
SPT 13 2 3 3 6 45 -19.67 15  HQ 17 70 0 0 0 0 0 Gravel and sand, consists of subangular to sub rounded volcanic blocks up to 60mm in length (petibles size), matrix was not recovered  SPT 14 3 12 8 20 45 -21.67 17 CO  Gravel 0% to 55%  Fines 45% to 100%  18.50 m  Tuff, reddish brown, weak, poorly cemented, consists of sandy six tuffaceous, confains some rock blocks up to 50mm in length	SPT	12	2	2	1	6	45	-18.67	14	V					6	
HQ 16 55 0 0 0 0 0 -20.67 16	-	+-		$\vdash$		<del> </del>	-	10.67	-							
HQ 17 70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	511		-	-	-		1	-19,07	13			1			6	
SPT 14 3 12 8 20 45 -21.67 17 0 0 20	ю	16	55	0	0	0	0	-20.67	- 16		16.00 m	4				
HO 18 55 0 0 0 0 0 -22.67 18	НΩ	17	70	0	0	Ó	0	-	- -	0	Gravel and sand, consists of subangular to sub rounded volcanio blocks up to 60mm in length (pebbles size), matrix was not recovered					
HQ 18 55 0 0 0 0 -22.67 18	SPT	14	3	12	8	20	45	-21.67 -	17	U _			1		20	
HQ 19 55 0 0 0 0 0 18.50 m  SPT 15 1550 >50 10 -23.67 19 0 tuffs reddish brown, weak, poorly cemented, consists of sandy sit, tuffaceous, contains some rock blocks up to 50mm in length	ю	18	55	0	0	0	o	- -22.67	- 18		Gravel 0% to 55%					
tuffaceous, contains some rock blocks up to 50mm in length	НО	19	55	0	0	0	0	-	-		Fines 45% to 100%					
	SPI	15	15/50	! 	-	>50	10	-23.67	19	\ğ o	Tuff, reddish brown, weak, poorly cemented, consists of sandy silt, tuffaceous, contains some rock blocks up to 50mm in length	t.			>50	
	НО	20	55	55	100	0	0	-		9						

							Swissbi	oring O	)Ver see	Corp. Ltd. CEPA JICA Study Yes	an .					7
										LOG OF BORING	2.2					
				ż	٠.	٠.					BOREHO		BS heet	-17 _		
CLI	ENT:	NIF	PON	KO	l Itd					SOIL INVESTIGATION OFF SHORE	DRILL RIG	~~~~~			3/3	
	****	RY:E					ORDINA			13*19' 51.2* - 87* 49' 2.0*	DRILLER:	~~~~	wissb	oring		
DEF		SOIL.	22.00 SAM		m	BOT	TOM SE	ALE	VEL:	-4,67 Chart Datum Level	DATE (STAF		SH):		3-20/10/01	丑
ы	NUMBER	5 E	Ę	Ę,			G	EOT	ГЕСН	NICAL INVESTIGATION FOR LA UNION PROJECT, EL	LOGGED E	y: Rodoli	n Akr	eradn		
TYPE	Ş	9	8	9		Ę				SALVADOR						
SAMPLE	SAMPLE	SET	SET	BET	VALUE	RECOVERED				swissboring	INSPECTO	R	Dr.	Pucai	Yang	
8	ò	۳ ۵	7	85	z	Ã.			Swi	Isboring Overseas Corporation Ltd.	* .			٠		-
	<b>_</b>	RO	CK C	ORE			<u></u>	<del>                                     </del>			ļ <u>.</u>					
		Z T	E	≵					ا _ ایر							
SIZE	ZAE	RUNLENGTH S Cm	ER.	RECOVERY	Ħ	gg.		E	200	DESCRIPTION	SPT TE	ST		ļ	RQD	,
CORE SIZE	3	ਬ 3	RECOVERY	# REC	RaD em		<b>ස 1</b> දුර	DEPTH IN	BAMPL GRAPHII			· .		L		1
3	æ	25	ax.	3-	A2*	*	<u> </u>	*	130	Brecciaceous tuff, dark brown, weak, consists of subangular to	10 20 30 40	50 >5	C N	20 40	60 80	100
			1		ŀ		_	] ]	Q	besaltic and andesitic clasts, up to 60mm in length, and contains						-
							_		Õ	occasional cobbles up to 200 mm, matrix is poorly cemented and loose, water laid, bedding can not be determined, appears to be						
HQ	21	100	70	70	0	0	-25.67	21	O	massive				<u> </u>	<u> </u>	
		, e					_		0.0						459	
									Ŏ.				İ	1		1
HQ	22	100	80	80	45	45	-26.67	22	8	22.00m END OF BORING				$\sqcup$		
Ì			:										İ			1
							_									ł
								23				1.				1
Ì								11								
								-						-		
								24								
								] -								
								25								١
				1									İ			1
							٠.	-	1 1							
								26								
			i										İ			
								-					İ			
								27								
													į			
								28					ĺ			
													ļ			
					:											
					1	]		29								
Ì								-								
					'	1 :		]					Ì			1
	Ш				L	Ш		30					ļ			-

							Swissbo			• • • • • • • • • • • • • • • • • • • •		LOG	OF	BC		G			CA Study	14441							
		:												*						ŧ	3OR	EHO		B shee	S-18	1 <i>1</i> 3	
				KOE VAD		~	ORDINAT	ES		SOIL IN					SHO	æ						L RIG	LY3	14			
DEF	'nн	- 3	23.80		m	+	TOM SE		VEL:			l Datun									DATE	(STA	₹T - FINE	Swiss ISH):	$\overline{}$	9 21-22	/10/0
.	1	5 E	5	- Un			CEOTE	C LIN	IC ÁI	L INVESTI	CAT	ION C	Λ <b>α</b> ί	A LIN	lési n	IL	'AT 1			: J	LOG	GED I		· · ·			
TYPE	NUMBER	ě.	8	45 0		the C		.01131	, roma	LINVESTR	GAI	CAT I	OK L	. OII	(F.)	ncor.	, c	EL SA	шурш			· 		A obta	<i></i>	<u> </u>	
SAMPLE	SAMPLE	SET	6ET	£ <u>5</u>	N VALUE	RECOVERED				SW	İS	sb		ir	ng	J .				ı	NSP	ECTO	R	Dr	. Puc	ai Yan	g.
S)	Ś	۳.	7	ORE	z	Ä		4.	Swi	issboring	Ov		as C	ionpo	ratio	n Ltd	•										
		E Z	E					П										-		1					T		
CORE SIZE	AUN NUMBER	RUN LENGTH		RECOVERY	Ę	700 A		£ 2.0	10 109				D	ESCI	રાગદ	N				l	Si	PT T	EST			RO	<u>D</u>
CORE	AUN	RUN:	RECOVERY	% RE	202	*	6 00	N HE THE	GRAPHIC		٠.			<u>.</u>				·				٠.	0 50 >	>5C 1	1 20	40 6	0 80
ध	1	1	G	0	1	45	-	1		From 0 to Clay, gre	enish	gray,	very :	soft co	xnsiste	ncy, h	gh wa	eter co	ntent, f	high					1		
							-8.02	- 1		plasticity,	mode	erate di	ry stre	ngth.							:						
							_	-					•					- 1	-		1						
ŧΩ	1	155	45	29	0	o	-9.02	- 2																			
							-	-		Sheiby #1	,													-			
ot Ot	2	30	0	0	D	0	-10.02	-		GREIDY IF	•																
PI		1	0	1			-10.02	1													-						
۲	٤				1	45		-																	1		
							-11.02 	4		Shelby #2																	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
ΙΉ		1	0	1	1	45	-	- \																	1		
	3		0	0	0	0	-12.02	5								4	,				1						
Tq	4	1	1	1	2	45	_			From 5.50	) to 1	7.2 m		·			•								2		
				-			-13.02	8		Sifty clay, plasticity,	gree high	enish g dry stre	gray v ength	very so	oft to s	soft, hi	gh wa	ster co	rderd, t	nigh							
М	5	1	1	1	2	45	-	1													•				2		
10	4	35	0	0	0	0	-14.02	7				-						•		.							
म्	6	-1	1	1	2	45		1													,				2		
							-15.02	8					•														
РТ	7	1	2	2	4	45	-   -	<b>[</b> ]		Same ma	terial,	soft to	medi	um sti	ā, with	fine sa	nd tra	ces						!			
ю	5	35	٥.	0	D	0	-16.02	9													1				4		
PI	8	1	1	2	3	45	- -	1		į.			1				٠.								3		
ю	6	55	0	0	0	0	_ -17.02	10													j			_			
				+ 2			,									: <del></del>			-								
													٠		٠												•

				····				Seis	boring	OYAT	orp. Ltd. CEPA	JICA Study Team	<u></u>		
											LOG OF BORING		BOREHOLE:	DC 4	.
L							. :							heet	2/3
-			NIP RY:EL				0.5	NDA.			OIL INVESTIGATION OFF SHORE *19" 48.3" - 87" 49" 2.0"		DRILL RIG: LY-34		
1-	DEP	*****	./	23.80		m m		ORDINAT		VEL:	19 48.3 - 8/ 49 2.0 02 Chart Datum Level		DRILLER: S  DATE (START FINIS	wissbonr H):	ng 21-22/10/01
Γ			SOIL	SAM	PLIN	g	1						LOGGED BY:		
	TYPE	NUMBER	15 cm	85 E	45 cm		5	GEOTI	CHI	VICA	VESTIGATION FOR LA UNION PROJEC	CT, EL SALVADOR	Rodel	o Alvara	do
	SAMPLE	SAMPLE	SET	SET	SET	N VALUE	RECOVERED				swissb <b>o</b> ring		INSPECTOR	Dr. Pu	cal Yang
F	Ø	9		8	ю.	z	Æ			Sw	oring Overseas Corporation Ltd.				
$\vdash$		_	RO §	CKC	ORE					Т	<u></u>			T	
		#	Z	8	E.				Į.	90	STOOPING				
	CORESIZE	RUN NUMBER	RUNLENGTH	RECOVERY	RECOVERY	£	ğ	£	I O	皇	DESCRIPTION		SPT TEST		RQD
	ğ	Š	25	REC	*	Rab	*	ਲ	PEPTH	GRAPHIC			10 20 30 40 50 >5	C N 20	0_40_60_80_too
8	РΤ	9	2	. 1	2	3	45	_	-/		ime material as above			3	
	10	7	55	0	0	0	0	-18.02	11						
2	;PT	10		2	2_	4_	45	-	1					4	
								-19.02	12						
S	PT	11.	2	2 .	2	4	45	-	1					4	
١	НΩ	8	55	0	0	0	0	-20.02	13						
Ş	PT	12	2	2	2	4	20	-	1					4	
	на	9	55	0	0	0	0	-21.02	14						
5	ЭРТ	13	1	2	2	4	20	-						4	
-	ťQ	10	55	0	0	0	0	-22.02	15						
H	PT		2	3	3	6	30	-					•	6	
-	IQ.	$\dashv$	55	0	0	0	0	-23.02 	16		•				
+	PT	-	2	3	3	6	35	-					<b>+</b>	6	
F	1Q PI	12	55	0	0	0	0	-24.02 -	17						
H	ήQ.		3 55	4	5	0	30	-25.02						9	
-	PT		3	4	6	10	35	-25.02	"						
+	-		$\vdash$	0	0	0	0	-28.02	19		9.0 m			10	
}	PT	18	5	7	12	19	45	- 1		0	it with some fine gravels, gray to dark, to	w water content, low	1 \	19	
	но	15	55	0	0	0	0	-27.02	20	10	asticity, moderate dry strength, exhibits block righth.	s from 10 to 20mm in	1 1		

		····				····	Swissko	rity) O	Vel 541	Corp. Ltd. CEPA JICA Study Tee		
										LOG OF BORING		•
											BOREHOLE:	
CLI	ENT:	NIF	PON	KOE	l Itd	Γ				SOIL INVESTIGATION OFF SHORE	DRILL RIG: LY-3	sheet 3/3 4
· · · · ·		₹Y:EL	SAL	VAD	OR	$\infty$	ORDINAT	ES:				Swissboring
DE	गम	SOIL	23.80		m	ВО	TOM SE	ALE	VEL	-7.02 Charl Datum Level	DATE (START - FINE	sh): 21-22/10/0
	1 :	- I	2200	r Life	_	l					LOGGED BY:	
TYPE	NUMBER	15 cm	30 om	45 cm		   ह	GEOTE	CHN	HCA	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	Rodo	ifo Alvarado
	1		,		Ì	e						
SAMPLE	SAMPLE	SET	SET	9E.1	VALUE	RECOVERED				<b>swissboring</b>	INSPECTOR	Dr. Pucal Yang
23	6		7	n	ź	Ä			Sw	ashering Overseas Corporation Utd.		
-	<del>-</del>	RO	CK C	ORE	·	Τ	<u> </u>	г-т	·			
	E.	ž	Ę		:							
SIZE	NUMBER	RUN LENOTH	/ERY	RECOVERY	Ę	gg	_	E 2	5 10	DESCRIPTION	SPT TEST	RQD
CORESIZE	2 2	T NO.	RECOVERY	%. AE	ROD	*	E TOO	HANGE	GRAPHIC L		10 20 30 40 50	-5C N 20 40 60 80
F	-		È	<u> </u>	_	H			.0			
SPT	19	8	12	15	27	45		- \	\ <sub>©</sub>	Company and the second		27
Ю	16	55	0	0	0	0	-28.02	- 21	9	Same material as above		
<u> </u>	<del> </del>			ļ.,					8			
	ĺ						-	-	0			
ΗQ	17	100	0	0	0	O.	-29.02	- 22				
	-					-	~	-	6			
	l							-	8			
				ŀ			-30.02	23	3			
110	1,0	160	400	100	0	0		-		CO OO END OF FOUND		
	1.0		100	100		"		} <u>-</u> }	$\vdash$	23.80 m END OF BORING		
				:				24				
								-				
								25				
								-				
]								] _]	j			
								26				
		. :										
l								-				
							·	27				
								[ ]				
						1	* .	-				
1	1	}		-		1		28	1			
								_				
						Į		29				
					ļ			-				
								30				
_	<u> </u>		٠	ч	<u> </u>		<del></del>	يحر	ــــــــــــــــــــــــــــــــــــــ			

ı							Spirebo			s Corp. Ltd. CEPA JRCA Study Te	-··	
							9465900	~419 U	- CH 546	CEPA JICA SOUDY TO LOG OF BORING	en	
											BOREHOLE	
		NIP				L				SOIL INVESTIGATION OFF SHORE	DRILL RIG: L	sheet 1/1 Y-34
		RY:EL					TANIGRO			13°19′ 54.7" - 87° 49′ 11.2"	DRILLER:	Swissboring
DEF		SOIL	10.00		m	BOI	TOM SE	ALE	VEL.	-4.47 Chart Datum Level	DATE (START	
	1										LOGGED BY	
TYPE	NUMBER	15 сп	30 cm	45 cm		6	GEOTE	CH	iica	. INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	₹ R	todolfo Alvarado
1		"	n	4		1 1					<b></b>	
SAMPLE	SAMPLE	ser	SET	SET	VALUE	RECOVERED				<b>swissboring</b>	INSPECTOR	Dr. Pucai Yang
1 th	ð		**	6	z	REC			Sw	sahoring Overseas Corporation Ltd.		
<u> </u>	<u> </u>	RO	CK C	ORE					1 -		<u> </u>	
	œ	∡ ;	Ę						u ,			
SIZE	JMBE	ENG.	ER.	RECOVERY	<b>6</b>	gos		£	0070	DESCRIPTION	SPT TES	T ROD
CORE SIZE	RUN NUMBER	RUN LENGTH	RECOVERY	% REC	ROD	% 8.	כטר ש	DEFTH IN	GRAPHIC			
<del>ان</del> ا	ez.	-	α.	•		-	- 5	å	7 5	Gravel and sand, weak, consists of angular to subangular basalti		50 >5C N 20 40 60 80 100
SPT	1	12	18	50	>50	35	_		\ <u>&amp;</u> ;	and andesitic rock blocks, ranging in size up to 150mm in length		>50
HO	1	55	0	) ;   0	0	0	- -5.47	-	20	matrix was not recovered		T III
	Ė	133	<u>-</u> -	U	-	-	-J.41	ļ	Ó			
SPT	2	9	26	28	>50	25	-	1	18			>50
HQ	2	55	0	0	0	o	-6.47	- 2	Θ.			
COT	2		-		_		. –	-	2			
HQ	3	16 55	24 0	0	>50 0	28 0	. –	-	Ąģ			>50
SPT	<del>†                                      </del>	10,50	_		>50		-7.47	3	8			
一			-				-	-f	Ö			<b>→</b> >50
								-	8			
HQ	4	90	30	33	0	0	-8.47	4	Ö			
Ì							-	-	Ó			
Į							-	-	8			
		100		35		0	-9.47	5	0	Gravet 35% to 60%		1
SPT	5	14/50			≥50	13		-f	Ω.	Fines 40% to 65%		<b>♦</b> >50
									Ò.			
HQ			40	-	0	0	-10.47	6	Q			
25.0	6.	15/50			>50	_13_	~	-	é			>50
									6			
ΗΩ	7	90	36	40	0	0	-11.47	7	Ó			
						l i	-	-	0000	·		
		•					_		0			
HQ	8	100	60	60	0	0	-12.47	8	000			
но	9	55	55	100	0	0	-	-	) Exe			
SPT	7	15	25	30	>50	45	-13,47	9	\ <u>&amp;</u> ;			>50
HQ	10			100			~	-	30.0			
	T	ļ-				0	-		000			
SPT	8	10	28	35	>50	45	-14 47	10	٧٧.	10.00 m END OF BORING		>50

							4										
							Swissbo	ring ()	<b>1915-06</b>	COMPA. LINE. CEPA JICA SOLODY TOME  LOG OF BORING	n						,
											ВО	REH	IOLE	£: F	3S-2	20	
a	IEN	T: NI	PPON	KOE	1 itd			<del></del>		SOIL INVESTIGATION OFF SHORE	T FX	RILL F	DIG: I	she	et_	1/2	<u> </u>
		TRY:E				$\infty$	ORDINAT	ES:		13°19′ 48.5" - 87° 49′ 8.2"	1	RILLE		Swis	sbori	ng	
DE	PΠ		18.00		m	BOI	TOM SE	A LE	ÆL:	-3.57 Clvart Datum Level	<del> </del>			FINSH):		17-1	8/10/01
	,		1								LC	XGGE	D BY:				
TYPE	NUMBER	15 em	₩ 25	45 cm		Ę	GEOTE	CHN	ICAI	. INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR			R	odolfo A	Nara	do	
ı			"	•		뎵					┪						
SAMPLE	SAMPLE	SET	置	SET	VALUE	RECOVERED				<b>swissboring</b>	INS	PEC	TOR	ŧ	X. Pi	xcai Ya	ng
<u> </u> "		<u> </u>	14	6	z	₩			Swi	saboring Overseas Corporation Ltd.							
-	Т		CKC	OKE				İΤ			_				1		
	1 5	RUN LENGTH IN OR	E	ERY				# N	8					:			
CORESIZE	RUN NUMBER	ENG	RECOVERY	RECOVERY	Ë	60	Æ	TH (N	Ž	DESCRIPTION	[	SPT	TES	Ţ		RC	Œ
ŝ	į	Ş	) ji	35	RCD	*	CDL	130	GRAPHIC		10	20 30	40	50 >5C	<u>н</u>  2	0 40 6	\$0.80 too
SP	╣ 1			0	1	45		-1		From 0 to 2.0 m Clay, greenish gray, very soft to soft consistency, high water content,		Ī					
-	†	Ť	Ť	~		_	_	_		high plasticity, moderate dry strength.	7			11	1		
HC	1	95	0	0	0	0	-4.57	1							1		
$\vdash$	+-	+-	├				_	-		•			11				
							_			Shelby #1.							
1				l			-5.57	2		From 2.0 to 8.0 m. Sitty sand, dark brown, low plasticity to non plastic, moderate water							
SP	T 2	1	0	0	1	45	-	1 1)		content, moderate dry strength, exhibits blocks from 20 to 30mm in					1		
Н		55		0		ا ، ا	-6.57	-		length.					1		
F	╁	+~	۲	U	0	0	-6.51	٨									
SP	<b>⋣</b> 3	1	1	0	1	45	-	- `	Ø						1		
		1					- -7.57	4		Shelby #2.					-		1
							_										
SP	1 4	1	1	2	3	45		-[\	W						٦		
HK	3	40	0	0	0	0	-8.57	5				-			1		
SP	T 5	1	2	2	4	45		1-1		•							
	†*	+	1				-								1		
			1				-9.57	6									
SP	η <sub>6</sub>	2	2	3	5	45	-	<b> </b>				-					
-	╁	+-	<del> </del>	_		<b>-</b>	_	] _}							5		
HC	4	40	0	0	0	0	-10.57	7						i			
SP	7 7	2	3	3	6	45	~	1 1/							6		
							_ -11.57	-		20-		$\sqrt{}$					
		1					-11.5/	8	ſ"	8.0 m			N				
SP	т в	9	22	37	>50	45	_	-]\	0	Gravel, weak, consists of abundant basaltic and andestic rock fragments up to 120mm, medium to hard rock fines was not			1				
ж	5	40	0	0	Ġ	a	-12.57	9	S	recovered					50		
	T							4									
SP	<del>T 9</del>	32	10/50	)	>50	20	-	-	0			-			50		
H	<u> 6</u>	75	60	80	0	0	- -13.57	10	8								

	·						Swissbo	ring C	741001	8 Corp. Ltd. GEPA JICA Shady To					······································		<del></del> -	
										LOG OF BORING	D:	(ND)		. p.,	Ď0	20		
			:								D	UK	ENVI	LE: s	bs: heet		2/2	
			PON LSA			-	ORDINAT	TEC.		SOIL INVESTIGATION OFF SHORE	<del></del>			LY-34				
DEF			18.00		m		TOM SE		VEL:	13°19′ 48.5° - 87° 49′ 8.2° -3.57 Chart Datum Level	_	_	LER:	Si T-FINS	wissb		19/10	
		SOIL	SAM	PLIN	G						-		SED B		ery.		<u>-18/10</u>	701
TYPE	NUMBER	15 cm	30 cm	45 cm		Ę	G	EO1	ECH	NICAL INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR			. !	Rodoik	Alva	rado	.·	
SAMPLE	BAMPLE	1 8ET	2 BET	3 SET	N VALUE	RECOVERED			Sw	SWISSDORING saboring Overseas Corporation Ltd.	iN	SPE	СТО	₹	Dr. I	Pucai '	Yang	
	·	RO	CK C															
CORE SIZE	RUNNUMBER	RUN LENGTH IN	RECOVERY CM	RECOVERY	, cu	Rab	ε	DEPTH IN m	GRAPHIC LOG	DESCRIPTION		SF	रो 1ह	ST]			ROD	_
ğ	2	\$ E	S.	#	ROD	*	o d	130	38		10	20	30 40	50 >5	C N	20 40	60 80	O 100
SPT	10	15/50	)		>50	12	_	-	B		Ť			•	>50	1	$\prod$	T
HQ SPT		100 13/50	80	80	0 >50	0	-14.57 -	11	SO 000	Same material as above					>50			
HQ SPT		100 15/50	100	100	0 >50	0 13	 -15,57 	12	ල ගෙ	Gravel 60% to 100%, fines 0% to 40%					>50			
		100 13/50	95	95	0 >50	0 12	-16.57 -	13	තිංගය						>50			
		100 12/50	100	100	0 >50	0	- -17.57 -	14	0000						>50			
HQ	11	100	100	100	0	0	-18.57	15	ල ගෙන							un beliebele he dansersked bi		
НΩ	12	100	65	85	0	0	-19.57	16	90 000	16.0 m								
HQ	13	100	75	75	0	0	-20,57	17	වර පුල පුතුව ම	Clayey gravel, brown, low water content, low plasticity, low dry strength, medium stiff to very stiff consistency.								
							-		Ö									
HQ	14	100	100	100	0	0	-21.57	18	000	18.00 m END OF BORING								
								19										
								- - 20								11		

					<del></del>	· · · · · · · · · · · · · · · · · · ·	Swissbe	oring Oversea	Corp. Ltd. CEPA .RCA Study Te	
									LOG OF BORING	
ļ	٠.									BOREHOLE: BS-21 sheet 1/1
CLI	NT.	NEP	PON	KOE	i Itd				SOIL INVESTIGATION OFF SHORE	DRILL RIG: LY-34
		RY:EL			*****		ORDINA		13° 20' 7.5" - 87° 49' 0.3"	DRILLER: SWISSBORING
DEF		OIL :		0.00		BO	TOMS	EA LEVEL	-13.22 Chart Datum Level	DATE (START - FINISH): 27/10/01 LOGGED BY:
TYPE	NUMBER	16 टमा	30 cm	48 cm		em c	GE	OTECHNIK	AL INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	RODOLFO ALVARADO
SAMPLE	รวสพรร	1 6ET	2 SET	3 GET	N VALLUE	RECOVERED		<b>S</b>	SWISSDORING wissboring Overseas Corporation Ltd.	INSPECTOR Dr. PUCALYANG
		ROC	ЖС	DRE				· 		
CORE SIZE	RUN NUMBER	RUN LENGTH IN	RECOVERY cm	* RECOVERY	Rad om	% Rab	m ngo	DEPTH IN IN BAMPLE TYPE GRAPHIC LOG	DESCRIPTION	SPT TEST RQD  10 20 30 40 50 >5C N 20 40 60 80 100
					_		-	- 0	Chu arganish arau yan end consistancy high water contest higher	
но	1	55	0	0	0	0	-		Clay, greenish gray, very soft consistency, high water content, high plasticity, moderate dry strength.	<b>[</b>
SPT	1	1			1	45	-14.22	14		
HQ	2	55	0	o	0	0	-			
SPT	2	1			1	45	-15.22	2	Idem material	b. 1
но	3	55	o	0	0	0	-			
SPT	3	1			1	45	- -16:22	3 ↓	Idem material	1
HQ	4	55	0	0	0	0	, ~ _			
SPT	4	1			1	45	-17.22	₺		
HQ	5	55	0	0	0	0	-	-		
SPT	5	1			1	45	 -18.22	5.	Idem material	
НΩ	6	55	0	G	0	0	<b>-</b> -	-		
SPT	6.	1			1	45	-19.22	₹		1
HQ	7	55	0	0	0	0	_			
SPT	7	1			1	45	-20.22	<del> </del>	idem material, moderate water content.	
НΩ	8	55	0	6	0	0	-			
SPT	8	1			1	45	-21. <b>2</b> 2	ᠯ∭		
но	9	55	0	0	0	c	-			
SPT	9				1	45	-2222	<b>-</b> ₩	idem material, moderate water content.	1
нα	10	55	0	0	0	0	-	-		
SPT	10	1			1	45	-23.22	10	10.00 m END OF BORING	

Γ	-	·			· · · · · ·		Swissb	oring	Overse	Corp. Ltd. CEPA JICA Study Tel		· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •			
								•		LOG OF BORING						
											BC	PREHOLI			3S-22	
		NIP		-						SOIL INVESTIGATION OFF SHORE	Ð	RILL RIG: L	She Y-34	ક્લા	1/	<u></u>
	UNTE TH	RY:EI					ORDINA	<del></del>		13° 19' 17.6" - 87° 47' 51.3"	-	RILLER:			BORIN	
DE		OIL		0.00 PLIN		BO	TOMS	SEA.	LEVE	-11.52 Chart Datum Level	7	ATE (START-		ť.	25/1	0/01
l	Ĕ,	5	e	F							``					
77.	NUMBER	<b>5</b> 5	8	<b>2</b> 5 cπ		Ę	GE	:01:	EUHM	AL INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR		RODO	LFO /	ALV/	ARADO	)
15	<u> </u>				Ę	8	1			swissboring			***		<del></del>	
SAMPLE	SAMP	ᆬ	138	Ê	N VALUE	RECOVERED				_	IN:	SPECTOR	Ðr.	PUC	AI YAN	iG
-	L	RO	L∾ CKC	ORE		<u>~</u>			•	wissboring Overseas Corporation Ltd.						
		Z				Γ		Γ	П		<del> </del>			Т		
122	BER	HE	es A	RECOVERY	Ì _			E	2 2	DESCRIPTION	Ι.				<u> </u>	
CORE 9IZE	RUN NUMBER	RUN LENGTH	RECOVERY	JECO ECO	Ę	8	Ε	DEPTH IN	GAMPLE TYPE GRAPHIC LOG	DESCRIPTION		SPT TE	ST	E	RO	D
8	₹	2 €	Æ	*	ğ	<b>*</b>	ਲੁੱ	B			10	20 30 40 5	50 >5C	N 2	0 40 6	0 60 100
SPI	L	1			L	45	-	-		Clay, greenish gray, very soft consistency, high water content, high						
								]	1	plasticity, moderate dry strangth, contains shelves.	$\mathbb{I}$			1		
				١.			-12.52	1						ı		
						l	_	-	1 🛭							
						ļ	-	-	∖∅	klem material						
SPT	2	1	-		_1_	45	-13,52	2	10					1		
	1					l										
CDT	_	١.						-	۸Ø							
SPI	×2	-			1	45.	-14.52	3	10	idem material	P			1		
	ĺ	1						_	1 🛭						1	
SPT	4	,				45	-15,52	] ;	∖∭	Man makend made at the first contract	L					
						1	-13.32		]	Idem material, moderate to high water content.	Γ			1		
1							_	١.	1 🛭							
SPT	5	1			.1	45	-16.52	]	M	Idem material, moderate to high water content.	L					
				}					1 💹	The second of th	$\prod$			1		
					ĺ		-	-	┧∭							
SET	6_	1	L	<u> </u>	1	45	-17.52	,	1	Idem material, moderate to high water content.				1		
							-	-		- -						
								-	10							
SPT	7.	1_1_			L	45	-18.52	] 7	14//	Idem material, moderate to high water content.	•			1		
							-	-	┨							
} ;		}							١W							
SPT	8	1			1	45	-19.52	٤	₩	idem material, moderate water content.	•			1		
							-	-	1 💹							
								]	١W							
SET	9	1	$\vdash$		_1	45	-20.52	9	HØ	Idem material, moderate water content.	P			1		
							֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	_	1 🛭							
							-		٨Ø	Idem material, moderate water content.				1		
SPT	10	1.1.			_1_	45	-21.52	10	<b>1 Y</b>	10,00 m END OF BORING	<b>je</b> i			1		.

										LOG OF BORING	B	OREI	HOLE	<b>:</b> :	BS-2	3
GLI	ENT:	Mit	PCM	ΚO	를 Nd		·			SOIL INVESTIGATION OFF SHORE		ru -	7125	shee	11	//1
_				VAC		co	ORDINA	ATES	):	13° 18' 22.7" - 87° 46' 56.0"	_	RILLE	RIG: L'		SBORI	N
DEF			*********	0.00		_			_	-12.32 Chart Datum Level				FINISH:	25/	~
		OIL	SAM	PLIN	G					·			D BY:			<u> </u>
TYPE	NUMBER	45 EP	5 8	45 CH		£	GE	OTE	CHN	AL INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR		R	ODO	LFO AL	VARAL	ю
SAMPLE	SAMPLE	1 657	2 BET	3 857	N VALUE	RECOVERED			8	SWISSDORING wissboring Overseas Corporation Ltd.	iN	SPEC	TOR	Dr. Pl	JCAI YA	UNC
			ЖC	ORE			<u> </u>									
CORE SIZE	RUN NUMBER	RUN LENGTH IN CH	RECOVERY on	RECOVERY	ט מוו	Rab	E	Off PTH IN m	SAMPLE TYPE GRAPHIC LOG	DESCRIPTION		SP	T TES	<u> </u>	R	QE
8	쭚	15	Æ	#	ő e	¥	ਰ ਹ	ă	के हे		10	20 30	40 5	0 >5C N	20 40	60
SPT	_1_	1_			1	45	- - -13.32	1		Clay, greenish gray, very soft consistency, high water content, hi plasticity, moderate dry strength, contains some shelves.	<b>-</b>			1		
SPT	2	1			_1_	45	-14.32	2	¥	Idem material				1		
ser	3	1			1	45	-15.32	33		klem material				1		
SPT	4_	1			1	45	 -16.32 	4		Idem material, moderate to high water content.				1		
SPI	_5_	1			1	45	-17.32 -	5		idem material, moderate to high water content.				1		
SPT	_6_	1_1_			1	45	-18.32 	6   1		Idem material, moderate to high water content.				1		
SPI	_1_	1_			.3	45	-19.32 -	7		Idem material, moderate to high water content.				1		
SPT	8	1			1	45	-20.32 -	8		Idem material, moderate weiter content.				,		
SPT	-2-	<u> </u>			-1-	45	-21.32 -	9		Idem material, moderate water content.				1		
SPT	10	1			1	45	- -22.32	10		Idem material, moderate water content. 10.00 m END OF BORING				1		
																-

			-	·			Swissb	orine Own	s Corp. Ltd. CEPA JRCA Sainty T		
									LOG OF BORING		
							٠.	•		BOREHOLE:	BS-24 t 1/1
		NIP					***************************************		SOIL INVESTIGATION OFF SHORE	DRILL RIG: LY-34	
DEP		YY.EI		.VAD 4.00			ORDINA	NTES: SEA LEVE	13* 13* 50.7* - 87* 47* 42.0* : -11.67		SBORING
		Oil,				LBO	TOM	EN LEVE	: *11.07 Crimit Court in Cores	DATE (START - FINESH): LOGGED BY:	30/10/01
TYPE	NUMBER	TE OTH	30 cm	46 cm		Æ	GE	OTECHN	CAL INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	RODOLFO AL	.VARADO
SAMPLE	BAMPLE	1 <b>3</b> ET	2 8ET	3 857	N VALUE	ECOVERED			SWISSDORING Wissboring Overseas Corporation Ltd.	INSPECTOR Dr. P	UCAI YANG
	ـــــا		жо	L		L_&			3.		
CORE BIZE	RUNNUMBER	RUNLENGTH IN OR	RECOVERY om	RECOVERY		ROD	E	SAMPLE TYPE	DESCRIPTION	SPT TEST	RQD
ğ	ş	2	REC	*	8	*	g.	SAN SAN		10 20 30 40 50 >50 N	20 40 60 80 10
ю	1	55	0	0	0	0	-	-	Clayey sitt with fine-grained sand, dark gray, moderate plasticity.		
SPT	1	1			1	45	-12.67	1			
HQ	2	55	0	0	Đ	0	_	-			
SPT	2	1			1	45	-13.67	- ∖			
НΩ	3	55	٥	0	,	0	-13.07	-			
SPT	_	1		-	1	45	-14.67		3.00 m		
но	4	55	0	0	C	0	-		Idem material, exhibits sea shell residues.		
SPT	4	1					_	1			
35	-	<u> </u>			1_	45	-15.67		Sandy silt with clay, dark gray, low plasticity. 4.00 m END OF BORING		<b>'</b>
							-16,67	5			
							1				
	·					•	-17.67 —	6			
1							-	-			
					·		-18.67	7			
							_				
							-19.67	8			
							-				
							-20.67	9			
							-21.67	- 10			

			· • • • • • • • • • • • • • • • • • • •	·········	<del></del>		Syrksob	orina Overs	is Corp. List. CEPA JRCA Shady Tai	
						٠		•	LOG OF BORING	
1								.'		BOREHOLE: BS-25
CUI	ENT:	NIP	PON	KOE	i Itd	Γ		······	SOIL INVESTIGATION OFF SHORE	sheet 1/1 DRILL RIG: LY-34
		RY:EL					ORDINA		13" 11" 18.7" - 87" 48" 47.6"	DRILLER: SWISSBORING
DEF		SOBL :		5.00		BO.	TOM S	EA LEVE	: -12.07 Chart Datum Level	DATE (START - FINESH): 30/10/01 LOGGED BY:
TYPE	NUMBER	E	E 2	5			GE	OTECHN	CAL INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	RODOLFO ALVARADO
٤	쿭	₽	8	\$	·	Ω Ω				
BAMPLE	BAMPLE	SET	9ET	SET.	N VALUE	RECOVERED			SWISSDORING SWISSBORING OVERSEAS CORPORATION Ltd.	INSPECTOR Dr. PUCALYANG
لتبا		ROX	ЖC	က ORE	Z	2			Withdraw Corporation Liu.	
		Z								
92	BER	E	RY CIT	RECOVERY	<u>.</u>			₽ <b>2</b> 3	DESCRIPTION	[
CORE SIZE	RUN NUMBER	RUN LENOTH CM	RECOVERY	RECO	E C	8	Æ	BAMPLE T	<b>DEDOTAL TION</b>	SPT TEST   RQD
8_	5€	₹ 5	RE	*	50 CD	*	형		Silty sand with little clay, dark gray, exhibits sea shell residues, low	10 20 30 40 50 >5C N 20 40 60 80 100
HQ	1	55	G ·	0	0	0			plasticity.	
SPT	1	1			1	45	-13.07	1		
HQ	2	55	c	0	0	0			From 1.5 to 5.0 m	
SPT		1			1	45	-14,07	<b> </b>	Sandy sixt with little clay, dark gray, exhibits see shell residues, low plasticity.	
							-14,07		pessucary.	
E	3	55	0	0	0	0	-	1		
SPT	3	1			1	45	-15.07 _			
НΩ	4	55	0	0	0	0	-	<del> </del>		
SPT	4	1			1	45	-16.07	4		1
но	5	55	0	٥	0	0	-			
SPT	5	1			1	45	 -17.07	<b>- 1 1 1 1 1 1 1 1 1 1</b>	5.00 m END OF BORING	
							-18.07	6		
							_			
							-			
							-19.07	7		
							-			
							-20.07	8		
							-			
							-21.07	9		
							-			
							-			
			<u> </u>	L		<u> </u>	-22.07	10		

····											
							Swissbo	ring Overse:	CORP. LIED. SELECT STREET LOG OF BORING		
	٠									OREHOLE:	BS-A1
CLIE	NT:	NIP	PON	KOE	l Hut	Γ	<del></del>		SOIL INVESTIGATION OFF SHORE	S KILL RIG: LY-34	heet 1/3
		₹Y:EL			OR .		ORDINAT				wissboring
DEF		SOIL:	21.30 SAM		m 3	BOI	TOM SE	A LEVEL:		DATE (START - FINS .OGGED BY:	Hi: 23-24/10/01
						i				COOCD B1.	
TYPE	NUMBER	15 cm	30 am	E G		8	GEOTE	CHNICA	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	Rodol	fo Alvarado
	l			,	w	ERED			cuiccharing		
SAMPLE	SAMPLE	SET	2 SET	3 SET	N VALUE	RECOVERED		S-1	SWISSDOPING asboring Overseas Corporation Ltd,	ISPECTOR	Dr. Pucai Yang
	 		CK C						Salarang O'res salas Conjunantas Ligo,		
	_ ا	N CM	E E	ير				ا ا			
SIZE	RUN NUMBER	RUN LENGTH	/ERY	RECOVERY	E	Rab		E TYP	DESCRIPTION	SPT TEST	RQD
CORESIZE	SS	RUN L	RECOVERY	% RE	Rab	£.	# 7co	SAMPLE GRAPHICI	10	20 30 40 50 >	5C N 20 40 60 80 100
							-	- 8			
					:				Clayey sitt, dark brown, very soft consistency, high water content, low plasticity, low dry strength.		
HO	,	130	0	,			-12.00	1  🎉			
H	<del> </del>	130		0	0	0	_				
							40.00		Sheiby #1.		
							-13.00				
SPT	1	1	_0_	0	1_	45		+	<b>k</b>		1
							-14.00	3 <b>3</b>			
HO	2	85	0	0	0	0	· _				
							-		Shelby #2.		
							-15.00	1			1,1,2
SPT	2	1	0	0	1	45	_				1
							-16.00	5			
							<u>.</u>	-			
но	3	155	0	0_	0	0	-17.00	6			
SPT	3	1.		1	2	45	_	🎼			2
Ιнα	4	55	0	0	0	0	-18.00	-			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
							_				
SPT	4	1	_1_	2	3	45	_		7.50 m		3
ю	5	55	0	0	0	٥	-19.00	1 8	Gravel, consists of abundant angular to subangular basaltic and andesitic blocks ranging up to 10 mm in length, medium hard to hard,		
SPT	5	4	8	16	24	45		<u>†</u>  ∫8	contains silt and medium to fine sand, gray, moderate plasticity, still consistency	7	24
							-20.00		continued by		
							-20.00	_   8			
							_	-   8			
на	6	155	O	0	D	0	-21.00	I −ila	<u> </u>		

		· · · · · ·	<del></del>				Switze	borin	Over	LOG OF BORING	and expenses are an expensive above the second seco	(va. p
					•						BOREHOLE:	BS-A1 heet 2/3
CLI	ENT:	NUF	PON	KOE	l itd			······································	•	SOIL INVESTIGATION OFF SHORE	DRILL RIG: LY-34	
		Y:EL				cox	RDINAT	ES:		13'20' 10.3" - 87" 49' 16.7"		wissboring
DEF			21,30		m.	BOT	TOM SE	A LE	VEL:	-10.92 Chart Datum Level	DATE (START-FINIS	n): 23-24/10/0
ı	. 1	SOIL.	SAM	PLIN	g !	.					LOGGED BY:	
JYPE	NUMBER	15 cm	30 cm	45 cm		£	GEOTE	ЕСНІ	VICA	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOF	Rodoff	o Alvarado
SAMPLE	SAMPLE	1 SET	2 SET	3 SET	N VALUE	RECOVERED			Sw	SWISSDORING Laboring Overseas Corporation Ltd.	INSPECTOR	Dr. Pucai Yang
		RO	CK C								]	
CORESIZE	RUN NUMBER	RUN LENGTH IN CO.	RECOVERY on	% RECOVERY	ROD cm	% RCD	CDL m	DEPTH IN M	GRAPHIC LOS	DESCRIPTION	SPT TEST	RQD C N 20 40 60 80
Ť	-						_	1	6		10 20 30 30 30 30 30 30 30 30 30 30 30 30 30	C N 120 40 00 00
TS	6	13	18	19	_37.	45	-	+	O			37
НО	7	55	0	0	0	0	-22.00	11	00	Idem material, medium stiff consistentcy.	1	
PI	7.	20	16	25	_41_	45	_	-1	0	11.70 m		41
на	8	55	0	0	0	0	-23.00	12	Ø			
PT	В	19	22	27	49	45		1	ģ	Gravel and sand, brown to red, consists of angular andesitic and		
	*				-50.		_	-	X	basaltic rock fragments up to 25 cm in length, hard rock, fines was not recovered.		49
IQ PT		55 10/50	0	0	0 >50	9	-24.00	13	Ö			>50
							_	-	O			
į							- -25.00	14	0		1 1 1 1 1	1 1 1 1 1
нa	10	140	55	39	ò	0	20.00	''	8		1     1   1	{
		15/50			>50	12	_	1	ĮÕ.		1   1   1   1	>50
ı	1		i				_	-	3.6	•	1 1 1 1 1	
u	4.1	100	-	50	ō	0	-26.00	15	Ö			
		10/50	J	30	>50	-		-	Ş.		1   1   1	>50
							_		Ċ		1	
							-27.00	16	Š			
_		100) 15/50		50	I	2	-	-}	ŏ		1 1 1 1 1	<b>{                                    </b>
25.1	'^	13/30			>50	10	-	-	Q.	•	<u> </u>	
ı							-28.00	17	9.9			
HQ		100 10/50		65	0	_		-	0	•	1	
271	13	10/30			>50	10		1	ŏ		1 1 1 1	>50
į						l I	-29.00	18	8		.  }   }   [	
нα		100		100		0		_	Ó		1 1 1 1 1	
SPT	14	14/50			>50	12	-	4-	12			>50
на	15	75	75	100	0	0	-30.00	19	0		1 1 1 1 1	
_		10/50			>50	_		1	ġ	19.30 m		>50
							-	_[	ે		-	'  <del>       </del>
			, ;		i '	, 1	. 1		1.0	· · · · · · · · · · · · · · · · · · ·	. 1 :	52

									-					٠		
				. •												
													. *			. *
	ļ									···		ees Corp. Ltd. CEPA JCA Study Teem			****	
									SWM.	• DOTH	g uvai:	CEPA JCA Study Teen LOG OF BORING			٠.	. 1
					- 1				:				EHOLE:	BS-	A1	
				`. <u> </u>	<u> </u>	·:	·	·	· .					sheet	3,	/3
						KOE	_						RIG: LY-3			
		DEF			21.30	VAD	m		ORDINAT		VFI.	13°20' 10.3° - 87° 49' 16.7° DRIL -10.92 Chart Datum Level DATE	LER:	Swisebo		-24/10/01
						PLIN			10000	-,	<u>,</u>		ED BY:		<u></u> <u>-</u> -	201001
				.											٠.	- 1
		ų,	NUMBER	6	8	5			GEOTI	ECHI	VICA	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	Rodo	lfo Alvar	ado	1
		TYPE		5	ន	ð.	lu l	6				in the property of the second second second second second second second second second second second second sec				
		SAMPLE	SAMPLE	SET	SET	SET	N VALUE	RECOVER				swissbering INSPE	CTOR	Dr. F	ucai Y	/ana
		i)	οş	-	М	65	z	5			•	asbaring Overseas Corporation Ltd.				
				RO	έκç	ORE		·	ļ	 - T	1	asporting Overseen Corporation Ltd.				
-		]	g l	Z Z	₹	λ		<u> </u>			9			. ]		
		SIZE	UMBE	ENG	/ERY	RECOVERY	€	ROD	_ ;	Σ. n	3 2	DESCRIPTION	T TEST		R	100
		SORE SIZE	RUN NUMBER	RUN LENGTH	RECO	8	G.	%	CO.	DEPTH	SRAPH		30 40 50 >	. s		
	٠.									_	T.al	Brecciaceous tuff, medium soft to medium hard tock, weak to		<u>~ "</u>	1	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )
			'						_	-	0	moderate strength, consists of subangular to sub rounded basaltic and andesitic clast, ranging in size from 5mm to 300mm in length, matrix is	. }			}   L
									22.00	-	ģ	fine grained, sandy tuffaceous, poorly to moderate cemented				48%
		HQ	16	130	130	100	63	48	-32.00	21	X		11			,
•					_				_			21,30 m END OF BORING				
			}						-	-				11		
		١ .								22						
							1									
100	23				. !	. 1		i		_						i
									1 3 1	23						
										-						
		'					, ;		}				-			
	* *									24						i
		[							ٔ ا	[ -[						
														1		
										25						i
										-						
										26			-     [			
									İ	-						
**									l	-				11		
										27				.		
																[.]
										-	H					
										- 28						
										[ -					.	
						l				20						
									( ' '	[ ]					11	
																[ ] ] ]
										30						

				<u></u>			Bwissi	sorina	Overe	Les Corp. Ltd. CEPA JPCA Study Team	
										LOG OF BORING	
					•		•				BOREHOLE: BS-A2
											sheet 1/3
		NIF	-							SOIL INVESTIGATION OFF SHORE	DRILL RIG: LY-34
	ONII PTH	RY EI	22.00		m	_	ORDINATI		E1 ·	13° 20' 12.6" - 67° 49' 18.8" -11.27 chart datun level	DRILLER: Swissboring  DATE (START - FINISH): 23-23/11/01
OL,		SOIL					TOM OD	1269		711.21	LOGGED BY:
TYPE	NUMBER	ئة 19	89	<b>8</b>		8	GEOTE	CHN	ICAI	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	Rodolfo Alvarado
SAMPLE	SAMPLE.	1351	2 SET	3 SET	N VALUE	RECOVERED			8	SWISSDORING Wissboring Overens Corporation Ltd.	INSPECTOR Dr. Pucal Yang
	,		CK C	ORE				, ,			
CORESIZE	RUNNUMBER	RUN LENGTH IN OT	RECOVERY on	% RECOVERY	ROD am	% ROD	E 1GD	DEPTH IN IN	GRAPHIC LOG	DESCRIPTION	SPT TEST ROD
							_	-			
HQ		55	0	0	Ó	0	-	-		Sity clay, dark gray-brown, very soft consistency, high water content moderate to high plasticity, moderate dry strength with traces of sity sand, contains few shell fragments	
SPT	1	1	0	0	1	45	-12.27	1			
							1				
							-13.27	2		Shelby #1.	
					}		_	4			
HQ	2	160	0	0	0	0	-	-		Shelby #2.	
SPT	2	1	1	1	2.	45	-1427	3		Idem material, very soft to soft consistency	2
нα	3	55	0	0	0	0	_		7		
SPT	3	1	1	2	3	45	15.27	<u> </u>		Idem material, soft consistency	
HQ	4	55	0	0	0	0	-	-			
SPT	1-	1	2	3	5	45	-16.27	-		Idem material, medium stiff consistency	
HQ		55	0	0	.0	0	-	آ ۔			
SPI	П	1	2	4	5	45	17.27	6		Idem material, medium stiff consistency	
НΩ	6	55	0	0	0	0	-	-			<b>17</b>
SPI	6	1	2	3	5	45	-18.27	-			5
на	7	55	0	0	0	0	- -	-{   -			
SPT	7	1	2	3	5	45	-19.27	-\ 8	W	8.00 m	5
НQ	8	55	0	0	0	0	_	-  -	9	Gravelly Sand, hard, contains gravel traces, moderate	
SPI	8	4	в	8	14	25	-20.27	9	88	water content, low to moderate plasticity, low to moderate dry strength	14
НО	9	55	0	0	0	Ó	-	-	8		
SPT	9	23	28	30	>50	45	-21.27	<sub>10</sub> 1	\8		>50

			- <del></del>				Suries		Over-	see Corp. Lid. CEPA JKCA Study Tees							
							OWIGH	come .	CAN	LOG OF BORING	кTA		: -			1.	
												BOR	EHO	LE:	BS-	A2	
-	-6						. ,	· 						sh	eet	2/3	·
		NIP				-			<u></u>	SOIL INVESTIGATION OFF SHORE	4		. RiG:				
DEF			22.00		m m		ORDINATI		FI	13* 20' 12.6" - 87* 49' 18.8" -11.27 chart datun level	4	DRILL			issbo		
		5OIL	~~~				10,,100	1 10 60 7		11127 31111 31111 31111	+		ED B	T-FINISH Y	j.	23-23	/11/01
	8		_	ا ا		]		Aciti									
∃d/r	NUMBER	to en	30 CH	£		ŧ	GEOTE	CHN	ICAL	. INVESTIGATION FOR LA UNION PROJECT, EL SALVADOI	R			Rodolfo	Aivar	ado	
			.,	,		e		1	٠.		ı						
SAMPLE	SAMPLE	ь	SET	SET	VALUE	RECOVERED	ĺ			swissb <b>e</b> ring	1	INSPE	CTOR		Dr. P	ucai Yan	a .
Š	Ş	1 SET	(A)	3 5	z.	REC			8	wissboring Oversees Corporation Ltd.	1						:
		*****	CK C	ORE					1.		1		- 1				
		5	F						17		T				1		•••••
<sub>w</sub>	BER	ᄩ	ι cm	VERY				E 7	8	DECODISTION	١		4 1 4				
CORE SIZE	RUN NUMBER	RUN LENGTH	RECOVERY	RECOV	5	å	£	3 u	SRAPHIC L	DESCRIPTION	İ	SF	T TE	ST .	.	RQ	5
8	Ş	5	REC	<b>%</b>	ROD	*	8	HLG30	38		j	10 20	30 40	50 >50	N	20 40 60	80 100
					٠.		_	Ι-Ι			1	T	1	ΙΠΙ	~	TT	T
HQ	10	55	33	60	0	0	-	-	8	Idem material as above	-						
SPT	10	45	50		>50	13	-22.27	11	0								
									101		1				>50	1.	
Ю	.11	70	70	100	0	0	_	_	9		1	1		1			
	4.0			- 1	_		<u>-</u>	-	8	11.80 m	. 1		.	111			
HO	12		12/50	80	0 >50	0 23	-23.27	12			-	11			l		
-				H	-30	2.5	-	- }	8		1		. ]		>50		
						ŀ	_		3	Tuff, weak, dark brown - orange brown, consists of sitty sans	d				1		
НО	13		83	100	0	0	-2427	13	3	tuffaceous, moderate water content, low plasticity to non plastic, low i moderate dry strength, contains some very weathered took fragment	to				- 1		
SPT	12 14	15/50 45	45	100	>50 0	10	-	-	ľ	weak, poorly cemented, water laid, massive	7	-   -		•	>50		11
-	<u> </u>	<u> </u>	7	183	<u> </u>	Ť	-	-	18		1		- }-		1		
SPT	13	10	21	22	43	45	-25.27	14	ß.		1			171-1	43		H
							_	1-[	95		1	11		<b>i</b>	1	11	{ }
ΗΩ	15	55	55	100	0	0	-	-	Ĭ		1			I V. I	1		
SPT	14	35	43	48	>50	13	-26.27	15	8					\			
						Ť			10						>50		
ю	_	50	50	100		0	_	-	ġ,						1		
SPI	.15	tivso		$\dashv$	>50	10		[-[	1.34						>50		11
							-27.27	16	8								
				Í					(š		1		1		- 1		
ΗQ		140	140	100		0			195				1	} -{			
SPT	16	15/50			>50	13	-28.27	17			١				>50	1	
нα	18	57	57	100	0	0	-	-	8								
SPT				-~~	>50	3	_		(6)		-				اري	1 .	
			-				29.27	18	ġ.						>50		
							-	-	13		}			[			
нα	19	90	72	80	0	0	-	-					-				
HQ	20	35	72 35	100	0	0	30.27	19	Ě				1			-	
-	-	$\vdash$				Н	_		Q.				ĺ			1 1.	
							_	[ -	020			}					
ж	21	75	75	100	0	0	-	<b> </b> -	8	20.00 m							
	ـــــا						-31.27	20		29.00 III	$\perp$		1	<u> </u>			

				<b></b>		Swiss	oring (		se Corp. Ltd. CEPA JICA Study Tea	11
									LOG OF BORING	<b></b>
										BOREHOLE: BS-A2 sheet 3/3
CLIEN	T: Nil	PPON	KOE	l ltd			<del></del>		SOIL INVESTIGATION OFF SHORE	DRILL RIG: LY-34
COUN				OR		ORDINATE			13* 20* 12.6" - 87* 49* 18.8"	DRILLER: Swissboring
DEPTI		22.00 SAN		m	BO	TOM SEA	LEVI	EL:	-11.27 Chart datun level	DATE (START - FINISH): 23-23/11/01 LOGGED BY:
TYPE	1	8	£5 cm		€	GEOTE	CHN	ICAI	INVESTIGATION FOR LA UNION PROJECT, EL SALVADO	
SAMPLE		2 SET	3 SET	N VALUE	RECOVERED			s	SWISSDORING viasboring Overseas Corporation Ltd.	INSPECTOR Dr. Pucai Yang
	RC	CK C	لسببا							
CORE SIZE	RUN LENGTH IN COM	RECOVERY on	% RECOVERY	ROD on	¥ RQD	CD: m	DEPTH IN M.	SRAPHIC LOG	DESCRIPTION	SPT TEST RQD
HO 2	_	_	100	0			0 8	7.7	TOP OF SOUND ROCK, BRECCIACEOUS TUFF, weak, consists	10 20 30 40 50 >50 N 20 40 60 80 toc
HQ 2	+	$\vdash$	100	0	0	-	-	SO B	subangular to subrounded volcaric clasts, up to 40mm in length matrix is sandy buffaceous, poonly cemented, water laid, some parexhibit thin bedding.	
	T	1				-32.27	21	Ġ.		
HQ 2	4 80	80	100	0	0	-		ď Ó		
HQ 25	5 35	35	100	0	0	-33.27	22	Ó	22.00m END OF BORING	
							23 - 24 - 25 - 26 - 27			

<u> </u>			~~~				Swizab		Qvare	sare Corp. Ltd. CEPA JICA Brudy Tossn					:	
										LOG OF BORING				:		
											BOR	REHC		BS- sheet	A3 1/	9
			PON	_					<u> </u>	SOIL INVESTIGATION OFF SHORE	DRIL	L RIG	: LY-3			
COL			L S.AL 19,80	~	OR m		ORDINATE ITOM SEA		ÆL	13* 20* 10.1* - 87* 49* 23.1* -10.20 chart datun level		LER:	RT-FIN	Swissbo		20/11/01
95.		***	SAM			1.00	TOWISE	, LE	/EL:	-10.20 Final Cardin 1979		GED		iiSH),	20-	20/11/01
TYPE	NUMBER	15 cm	30 cm	45 cm		Ę.	GEOTE	CHI	ICA	. INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR			Rodo	olfo Alvar	ado	
SAMPLE	SAMPLE	1 SET	2 SET	3 SET	N VALUE	RECOVERED			S	SWISSDORING wiseboring Overseas Corporation Ltd.	INSP	ECTO	R	Dr. F	ucai Y	ang
-	r—	RO	CKC	ORE		<u></u>	ļ		1							
CORE SIZE	RUN NUMBER	RUNLENGTH IN	RECOVERY on	% RECOVERY	Rab am	% % %	e Too	осетн н м	SAMPLE TYPE	DESCRIPTION	_	PT T				QD
۴	e e	2.5	~	•		-		٩		Fro 0.0 to 5.6 m	10 20	30 4	10 50 1	>50 N	20 40	60 60 100
на	1	55	.0	0	0	0		-		Silty clay, dark gray-brown, very soft consistency, high water content; moderate to high plasticity, moderate dry strength with traces of fine						
SPT		1	0	0	1	45	- 11.20	-	\	sand, contains few shell fragments						
HQ	2	30	0	0	0	0									1	
На	3	55	0	0	0	0	-12.20 -	2		Shelby #1.						
	<u> </u>	<u> </u>				<del>                                     </del>	]		\₩							
SPT	2	1	0	0	1	45	-13.20	3	1	ldem material				'[		
HQ	4	55	0	0	0	0	_	_								
SPT	3	1	0	0	1	45	-14.20	-	∖∭							
	_					Γ	_	_						11		
HQ	5	55	0	0	0	0	-	-		•						
SPI	4	1	0	0	1	45	-15.20	5	W							
но	6	55	0	0	0	0	-	-		From 5.6 to 7.0 m			{			
	<del> </del>	<del>                                     </del>					-	-		Sandy silt, dark gray-brown, very stiff to hard consistency, high water			{			
SPT	5	1	1	1	2	45	-16.20	6	W	content, moderate plasticity, moderate dry strength				2		
HQ	7	55	0	0	0	0	_	_								
SPT	6	1	1	3	4	45	-17.20	7	W	7,00m						
HQ	a	55	0	0	o	0	-	-	O		/	-			}	
SPT	-	8	9		23	30	-18.20	- - 8	\ <b>8</b>	Gravel, week, consists of subengular to subrounded volcanic block up to 100mm in length, moderate to high weathered, contains fine to medium sand and sift traces	$    \rangle$			23		
ΗΩ	9	55	0	0	0	0	_ _	-	O							
SPT	8	8	11	17	28	30	-19.20		\ <mark></mark>				1 [		.	
HQ		Π	0	0	0	0	-	-				1		28		
		<b>.</b> .		-	,,	1.		-	ျွဲ့				V			
SPT	9	14	19	27	46	35	-20.20	10	/lo		L. !	11		46	1	

							٠								÷	
٠				·····								· · · · · · · · · · · · · · · · · · ·	······································			
							Swisth	onng	Overs	es Corp. Ltd. CEPA - GCA Brudy Teer LOG OF BORING	4N					-
		1.								LOG OF DOMING	É	BOREH	OLE:	BS-	-A3	1
			201											eet	2/2	_
		RY:EI			_	ÇO	ORDINATE	s:		SOIL INVESTIGATION OFF SHORE  13' 20' 10.1' - 87' 49' 23.1'		DRILL RI		vissbo	oring	$\dashv$
DE	РТН		19.80		m	•	TOM SEA		EL:	-10.20 chart datun level	I	DATE (ST	ART - FINISI		20-20/11/0	耳
	1 !	SCHL	SAM	PLIN	G İ ∣						1	LOGGED	BY;			-
17.PE	NUMBER	\$5 EB	30 cm	£5 CH		8	GEOTE	CHN	ICA	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOS	R		Rodolfo	Alva	rado	Ì
),	2	] ~	°	•			]				r		<del></del>		<del></del>	-
SAMPLE	SAMPLE	SET	SET	SET	N VALUE	RECOVERED	. '			swissb <b>oring</b>	ŀ	INSPECT	OR	Dr. I	Pucai Yang	
3	Š	۳	7	6	z	REC			S	visaboring Overseas Corporation Ltd,						1
-	Ė		CKC	OFLE				7	T-		╁	<del></del>				$\dashv$
	æ	RUNLENGTH IN CO	£	£.				إ			-					
SIZE	RUN NUMBER	5	RECOVERY	RECOVERY	£	Ş.	Æ	E 2	10 FQ	DESCRIPTION		SPT '	TEST		RQD	] [
CORE SIZE	S.	§	RECO	2,	g G	*	ਉ	DEPTH M	READHIC		-	10 20 30	40 50 >50	ı N	20 40 60 80	100
					_		-		J.		1					
Ha	11	55	25	45	0	0	-	_	30	Idem material			V			
SP	10	15	18	19	37	30	-21.20	11	Λõ	from 11.00 to 13.20m			4	37		
На	12	55	30	55	0	0	-	-	b	Volcanic breccia, weak, light gray-brown, consists of subangular subrounded volcanic blocks ranging in size from 5mm to 80mm			N			1
		27			>50	15	-	-	Ó	length, matrix is sandy, tuffaceous, poorly comented, water laid	-			>50		
1							-22.20	12	0		-	111				ĺ
но	13	95	67	71	0	0	_	-	}		1					
SPI	12	18	23	2R	>50	30	-23.20	13	V		-			    >50		
						3		_	<b>.</b>	13.20 m			•	130		
HO	14	55	44	80	0	0				Tuff, orange brown, very weak to weak, consists of						
SP	13	23	28	33	>50	30	-24.20	14	\ <u>\</u>	sandy silt, tuffaceous, hard consistency, water laid,				>50		
							-	-	ď	poorly cemented	1					
							<u> </u>		O							
HQ SPI		100	50	50	0 >50	0	-25.20	15	, C	SPT 8; Idem material, hard consistency						
	Γ.	لتعتا			تعم	14.			O		İ	}		>50		
1		90		100		0		-	Ø							. 1
P	13	14/50			200	10	-28.20	16	S.		1		•	>50		-
			<u></u>					-	۳							
_		95 15/50		100	0 >50	12	27.20	17	O	•				>50		
-					-		-	-	10		1			~		
							-	-	Ó							
но	18	100	100	100	0	0	-28.20	18	Ø							
							-	-{	o,	18.80 m						
							_	_	Ö	Volcanic breccia, week, light gray-brown, consists of subengular						1
Ha	19	100	100	100	0	Ò	-29.20	19	4	<ul> <li>subrounded volcanic blocks ranging in size from 15mm to 600mm;</li> <li>length, matrix is sandy, tuffaceous, poorly cemented, water laid</li> </ul>	'n					
								_	10							
но	20	80	80	100	0	0	- -30.20	-	٥.	19.80m END OF BORING	╛					
_	1	<u> </u>		ــــــــــــــــــــــــــــــــــــــ	Ц	Щ.	-30.20	20	ــــــــــــــــــــــــــــــــــــــ	·	┸			!		_1

						<del></del>	Swissi	orina Č	verse	as Corp. Ltd. CEPA JICA Study Team				· ,				·
								••••••		LOG OF BORING		÷						
							٠.				В	or	EH	OLE	: she	BS- eet	A4 1/	2
		NIP								SOIL INVESTIGATION OFF SHORE	D	RIL	LRI	G: LY				
DEP		RY:E					ORDINATE			13* 20' 7.6* - 87* 49' 27.5* -5.70 chart datun level	+-	<del></del>	LER			ssbo		
DEF		SOIL	16.00 SAM		m G	801	TOM SEA	LEVE	il.	.5,70 chart datun level	+	_		BY:	(NISH)	_	21-	21/11/01
1						ŀ					٦		UL.U	D1.			'	
TYPE	NUMBER	th CB	8	\$\$ 69		uro	GEOTE	CHNK	CAL	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR		· :		Ro	dolfo .	Alvar	ado	
SAMPLE	SAMPLE	1 SET	2 SET	3 SET	NALUE VALUE	RECOVER				<b>swissboring</b>	IN	SPE	CTO	OR		Dr. P	ucai Ya	ang
-			CKC	ORE					254	visaboring Overseas Corporation Ltd.	_						<u> </u>	
CORE SIZE	RUN NUMBER	RUN LENGTH IN	RECOVERY on	RECOVERY	5	ω W	i m	OEPTH IN IN SAMPLE TYPE	GRAPHIC LOG	DESCRIPTION		Si	PT 7	EST	7		R	QD
8	\$	\$ 8	Sec.	*	å	*	ਲੁ	SAMP	8		10	20	30	40 50	>50	N	20 40	60_60 to
SPI	1		_0.	_0_	.1	35	-	-\ -\ -\-		Sandy clay with gravel traces, dark gray-brown, medium soft to hard consistency, moderate to high water content, moderate to high plasticity, moderate dry strength				1		1		
							-6.70	1		Shelby #1.								
HQ	1	110	0	0	0	0	_	-										
SPT	2	1	0	2	.2	40	-7.70	2		Idem material					1 }	2		
нα	2	55	٥	0	0	0	_	-				}						
SPT	3	1	1	1	2	40	-8,70	3∐		Idem material, medium soft consistency						2		
НQ	3	55	0	·o	à	o ·	-	-										
SPT	4	1	1	1	2	45	-9.70	1		Idem material						2		
нα	4	55	0	0	0	0	_	-			Π ·	} 			1			1
SPT	5	1	2	2	4	45	-10.70	5								4		
нα	5	55	0	o	o	0	-	-			٦							
SPT	6	3	4	9	13	45	-11.70	e∏		6.00 m						13		
на	6	55	0	0	0	0		-	o	Sandy gravel, dark brown, stiff to very stiff consistency, high water				ļ				
SPT	7	7	9	18	27	30	-12.70	╽╢	9	content, high plasticity, high dry strength, contains fine to medium sand			N	1	1	27		
на	7	55	0	0	0	o	-	-	8				1					
SPT	8	9	12	20	32	30	- -13.70	  -    -	O							32		
HQ	8	100	60	60	0	a		- - -	000									
SPT	9	14/50	0	0	>50	12	-14.70	9	ä					- [ \		50		
							_	-	8							~		
но	9	92	75	82	0	0	-15.70	10	ď	10.20 m		1	1	ļ		- [		

<u> </u>	·						Swissbori	ing Ov		Corp. Ltd.			CEPA			A Study Tour		~~~~~		<u> </u>	·	<del></del>
	٠						٠.		•		LO	G OF	BORIN	IG								
1		1															BOR	ЕНОЦ		BS-		m
CLI	ENT:	N	PON	KO	i kd					SOIL	INVESTIG	ATION (	OFF SHO	RE	<del>,</del>		DRILL	RIG: L		reet	2	
		RY:EI					ORDINATI		<del>,</del> .	<del></del>	7.6" - 87° 4						DRILL			vissbo	ring	
DEI	PTH	SOIL.	16.00		m G	BO	ITOM SEA	LEV	EL:	-5,70	chart datu	ın level	<del></del>	N				(START-		н):	21-	21/11/01
	Æ				Ĭ	1											LOGG	ED BY:				
77.00	NCMB	15 cm	gg CCJ	45 cm		E	GEOTE	CHN	ICAL	. INVES	TIGATION	FOR LA	UNION	PROJEC	CT, EL SAL	.VADOR		R	odolfe	Alva	rado	
	}	_	"	*		<b>Q</b>											-					
BAMPLE	BAMPLE	SET	SET	B£7	VALUE	RECOVERED				S	WISS	DO	HIN	g			INSPE	CTOR		Dr. F	ucai Y	ang
3	á	- 6	2 6	6	ź	REC		ŀ	S	odeeiw	ring Ove	10052 C	Corpora	tion Ltd	f.		-					
	_	RO	CK C	ORE			ļ	:	· 1	<del></del>			<del></del>									
	~	<u>z</u>	5	Œ.					, ,				٠			:						
3216	RUNNUMBER	RUN LENGTH	ERY	Š	5	S. G.	∶ε	£ 2	GRAPHIC LOG			DE	SCRIPT	ION			िङ्ग	TTES	71		F 8	QD
CORE 8/ZE	N NO	UN I	RECOVERY	% RECOV	ROD	¥.	J.	CEPTH IN	3	2							L×:		1		L	22
SPT	_	i≊ 5 13/50		0	∞ >50	10	-14.22		ð	Gravel	, weak, con	sists of a	bundant h	asaltic an	nd andesitic	blocks 1m	10 20	30 40 5	50 >50 [ ]	. NJ	20 40	60 80 sa
								1		to 200	mm in lengt	th, hand n	ock conta	ins silt a	nd sand, mo				•	>50		
HQ SPT	_	100	70	70	0	0	-	-	0	ngn wa	ater content	iow plast	ix≖y to noi	n ptastic	•							
371		14/50	٥	0	>50	12	-16.70	"	19						-		[		•	>50		
							1		9											~		
HQ SPT		100 15/50	_	70	0	0		-	8													
321	12	15/50	0	0	>50	12	-17.70	12	Ļ٩											>50		
									O											30		
HQ	_	100	75 0	75 0	0 >50	0 12	40.70		잇				•						-			
OF I	13	13/30	Ů	U	>50	12	-18.70	13											4	>50		
							_		မြ		•											
HQ SPT		100 14/50	75 0	75 0	0 >50	0 13	-19.70	14	d													
-	Ť,	۳	M	Ť	- 55	"	-13.70		181										•	>50		
				_	ا _ ا		-	-[	d							1			i [			
		100	70 0	70 0	0 >50	0 12	- -20,70	15	ြု	:									-			
			$\vdash$					4	۲										•	>50		
LIV.	۱,	105	اا		ا ۾ ا		_	-	[													
ric?	15	פטנ	60	60	0	0	- -21.70	16	8	-	4 15	16 00m	END O	F BORIN	G	•				>50		
							İ		1 1						<del>-</del>					i I		
1								-														
								17		•						; .						
,								-														
								18														
							,	-						•								
į								-											1			
								19														
								4										1				
								-						57 .								
								20			1									1		

								·	··				
'								Swisel	xxting	Oyers	MED COTP. Ltd. CEPA JICA Study Teem  LOG OF BORING		
											Piston sample BOREHOLE:	BS-A5	
L											sh	eet 1/2	
_			NIP								SOIL INVESTIGATION OFF SHORE DRILL RIG: LY-34		
-	EP:	-	RY:EL	. SAL 14.00		OR m		ORDINATE		net .		issboring	4 4714
۲		_	SOIL:		_		1.50	TOMBE	LE	EL.	-4.00 chart datum level DATE (START - FINIS)  LOGGED BY:	): 21-21/1	1/01
1	1	- 1	1	- 1	1		'						
ZYPE	1	NUMBER	£ 9	8	£5 £2		8	GEOTE	CHN	IICA	. INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR Rodolfo	Alvarado	. :
~	1	^ ا		"	4				-				
SAMPLE	۱	SAMPLE	,	ь.	ħ	N VALUE	RECOVERED	ĺ			SWISSDORING INSPECTOR	Dr. Pučai Yang	
3	1	3	1 SET	2 SET	3 SET	Z	Ğ.			s	wissboring Overeeas Corporation Ltd.		
	_		RO	ЖÇ	ORE								
			8					•					
1	1	ğ	RUN LENGTH IN ON	- 8	ÆRY		}	1	E	<u> </u>	DESCRIPTION (ORT TEST)	\ <u></u>	
328 335		RUN NUMBER	ğ	RECOVERY	RECOVERY	5	å	E	DEPTH IN A	ARC I	SPT TEST	RQD	
800		5	ž	8 8	34	ROD	*	ថ្ង	DEPTH	SAMPLE GRAPHIC (	10 20 30 40 50 >50	N 20 40 60 8	30 100
	Т							-	-	0			1
		-					'	~	-	00	Gravel, weak, consists of subrounded volcanic blocks, up to 70mm in length, contains sandy silt and clay, high water content, moderate		•
1	1	ł						-5.00	-	b	plasticity, moderate dry strength		
		١						V.50		6			1
1	ı	- }						_		þ			
_			155		100		0	-	-	0			1
SF	7		14/50	-		>50	13	-6.00	2	<b>1</b> 0		>50	;
								-	-	<b>b</b>			
H			155		100	o	0	-		0			
SF	4	2	15/50	$\Box$		>50	13	-7.00	3	do l		>50	ļ
	-	1						-	7	10 10			İ
Ш	ما	3	95	95	100	0	0		~	6			!
			14/50			>50	13	-8.00	4	þ.		>50	1
Γ		1						-	_				
1	$\rfloor$			70	70	_		-	-	0			4
SF	_	_	100 13/50		70 0	0 >50	12	-9.00	-	<b>J</b>			
	Ť	寸					<u> </u>	3.00		0		>50	į
		- 1	ı						_ _	þ			-
$\overline{}$			100		75	0	0		-	0			
SF	+	5	14/50	٥	0	>50	12	-10.00	6	윤	6.0 m	>50	
1.		- }						-	-	b			
H	_	6	100	70	70	0	0	_		[o	Clayey gravel weak, consists of subrounded volcanic blocks, and contains sandy silt and clay, high water content, moderate plasticity.		-
SF	4	6	15/50	0	0	>50	14	-11.00	7	ا واد	moderate dry strength, brown gray brown.	>50	1
		-	į	į				· -	-	0			
Н	ا د	7	100	75	75	0	0	-	-	٦			i
SF	-	-	13/50	0	0	>50	_	-12.00	8	۱d-		>50	į
	T	T						_	_	o			
				_ [				-	-	Ď.			
7	-	_	100 14/50	70 0	70	0 >50	12	12.00	-	h			
۲	+	Ť		Ť	Ť	-30		-13.00	9	o		>50	
		- 1	1					_		þ.			[
			1	i						ļα			1
1+	<u> 1</u>	9	100	65	65	0	0	-14.00	10	Ŋ:			

_							Swinsbori	ng Onw		Corp. Ltd.							·	<u>.</u>		ac.	Study 1									
				٠				-	-			LOG	OF Pisto	B	ORI						•		AD	<b>:</b> 4 te	.e r			A =		
							100		. :		٠. ١		1810	11 52	mishi	E			,			В	OK	EHC	LE:	she	BS-, et		212	
	~	: NHF	_							SOIL II					F SH	ORE						T	ORILI	L RIG	:LY-	34				
_	ON I	RY:EI	. <b>SAI</b> 14.00		m		ORDINATE		3 .	13° 20′6		37* 49 datun										~+~		LER			ssbo			
		SOL				IBU	TOM SEA	LEVE	<u>.                                    </u>	4.00	CIMIL	Cacui	Kerci											SED I	RY FI	HIISH)		2	-21/1	1/01
1	噩	_						<b>~</b>	~							<b></b> -						1								
2	NUMBER	15 CH	30 00	#5 AT		8	GEOTE	CHNK	CAL.	INVEST	KGATI	ION F	OR E	ΑU	NION	PRO	IJΕ	CT, I	EL S	<b>AL</b>	VADO	R			Rode	olfo /	War	ade		·
SAMPLE	KAMPLE		1	h.	VALUE	RECOVERED				SV	Nİ:	SS	bo		rir	10							<b>ISPF</b>	сто	R		De D	ucai	سمدن	
3	3	* 8E7	2 557	3 857	ž	REC.		+	Sw	rissbori				-				d.							••	•		u.a		
┝╌			CK C	ORE				- 1 1	Т		<del></del>											+		· 		-				<del></del>
<u></u>	£	Z T	Y CT	ÆRY				E 2	g			•	_			-											١			
CORE SIZE	RUN NUMBER	RUN LENGTH I	RECOVERY	RECOVERY	RGD cm	S C	E .	SAMPLE	F 1					/E34	CRIP	: NVM							SF	ग ग	ST		1		ROD	
SPT		⊋ ह 15/50	O RE	*	\ 2 >50	≠ 13	0	§ §	20	····												10	20	30 4	0 50		H 50	20 40	60	80 100
110		100	70	70	,	0	-	-	٥	ldem ma	tenai		٠.,	:																
SF	_	14/50	2 0	0	>50	12	-11.72	ū	0																		×50			
								-17	9																		1			
		100	Į	70	0.	0		1	0																		١	İ		
SPI	11	15/50	٥	0	>50	13	-12.72	12	2									•								•	·50	ļ		
								1	σl						-							l						į		
SPT		100 15/50	03	60 0	0 >50	12	-13.72	13	ן מ		•	1						٠							-		١	1		İ
Γ							-		2									•												ļ
							_		) [										٠.								١			
HQ	16	100	70	70	0	0	-12.72	14  }					14.0	0 m E	END C	¥ 80	RIN	G				4								)
								_]																			-	ĺ		
							-	- 15	١																					
							_		-																1		1	į		
							-	-	-																					
					İ			15														1						-		1
							-	-11	1				-															İ	ĺ	ĺ
	1			-				-	1													1			'		1	1		
							-	17												•								ļ		
			٠,		ŀ		-		- 1							•							]							Ì
							-	]	١		•																1			
								18	į																					
	'				ľ		-	-																			١	İ		
				4.					ĺ																		1			
							-	19							-				٠.								-			
								41	1																		ĺ			
L	<b>I</b> _						-	20																			١			

[					<del>-</del> -		Swieti	oring	Overs	as Corp. Ltd. CEPA 3CA Study Ta	MTs .
										LOG OF BORING	
											BOREHOLE: BS-A6 sheet 1/1
		NIP RY:EL					SPINIATO	70.	*****	SOIL INVESTIGATION OFF SHORE	DRILL RKG: LY-34
	PTH		10.00		m		ORDINATE		EL:	13° 20° 3.5° - 87° 49° 33.1° -2.20 chart datun level	DRILLER: Swissboring DATE (START - FINISH): 21-21/11/01
Г		SOIL	SAM	PLIN	G	······		•			LOGGED BY:
TYPE	NUMBER	\$ \$	30 CB	£		Б	GEOTE	CHN	IICA	INVESTIGATION FOR LA UNION PROJECT, EL SALVADO	R Rodelfo Alvarado
SAMPLE	SAMPLE	SET	SET	SET	VALUE	RECOVERED				swissb <b>o</b> ring	INSPECTOR Dr. Pucal Yang
3	8	~	۲۷		z	ñ			S	wisaboring Overseas Corporation Ltd.	
-		ð	CKC	ORE					<del>T</del>		
	5	X X	5	ERY					8		
CORESIZE	RUNNUMBER	RUN LENGTH	RECOVERY	RECOVERY	8	900	E	F F	GRAPHIC LOC	DESCRIPTION	SPT TEST RQD
8	S.	R.	REC	*	ő	*	ਰੰ	HT-JO			10 20 30 40 50 >50 N 20 40 60 80 100
SPT	1	17	15	19	34	45	-	1	6	Sandy gravel, greenish gray, very soft consistency, high water conte	
но		100	0	0	0	0	-		0	high plasticity, moderate dry strength.	
SPT	2	20	18	25	43	45	-3.20	1	p		
JSF 1	-	20	10	23	43	43	_		þ		43
		***					40.00	-	0		
Но	-	100	-0	0	0	0	-12.20	2	0		
SPI	3	19	18	25	43	.45		-	Ď		43
на	3	100	0	0	0	0	13.20	3	Ď		
SPI	4	26	23	30	>50	45	-	1	0		
но	4	100	0	0	0	0	-14.20		8	3.80m	
	T			Ů	-	Ů	-14.20		0		
SP1	-5	21.	24	25.	49.	45	~	+	8		49
на	5	100	0	0	0	0	-15.20	5	0	Sitty sand with clay with some gravels, brown to red, modern plasticity, low water content, stiff.	ate
SEI	6	23	25	31	>50	.45	-	-	١g		>50
но	6	100	0	٥	0	0	-16.20	-	Ō		
SPI	7	24	28	31	>50	45	-	1	VO.		<b>●</b> >50
							-17.20	7	Q		
							-		O.O.		
							-	-	8		
но	7	200	0	0	0	0	-18.20	в	0.00.00.0		
SPI	8	31	25	30	>50	45			٧"	: 	>50
							-19.20	9	0		
на	8	150	o	o	o	0	-	-	00		
SBJ	9	19	26	28	>50	40	-20.20	10			
1000	, ,	. :3		20	1 - 30	1 40	-20.20	1 105	1		

Г								Sirina	orlon	Own	to Corp. Ltd. CEPA JICA Brudy Teer						
									~111179	VI412	LOG OF BORING	B4 5 P					
												1	BOREH		BS-		
c	LIE	NT:	NIF	PON	KOE	) It <del>d</del>	<u> </u>				SOIL INVESTIGATION OFF SHORE	-T	DRILL R	S: IG: LY-34	heet		7
-			RY:EI			OR		ORDINATE			13* 20' 5.8* - 87* 49' 21.5*		DRILLER		vissbo	ring	
٣	EP	TH:	SOIL	17.00 SAM		m G	ВО	TOM SEA	LE	ÆL:	.9.20 chart datun level	4		ART - FINIS	H):	21-	21/11/01
	J					Ĭ							LOGGE				
Į ž	1	NUMBER	ъ Б	30 cm	£5 E		6	GEOTE	CKN	IICAL	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOF	R		Rodolfi	o Alva	rado	
	- 1	- 1					GE C					Ī					<del></del>
T AMAS		SAMPLE	SET	SET	SET	N VALUE	RECOVERED	}		_	<b>swissboring</b>	ا	INSPECT	OR	Or. F	Pu⇔i Y	ang .
Ļ	1	o l	٠.,	7	60	Z	RE			S	visabbring Overeses Corporation Ltd.	-					
-	Т	-		CKC	ORE			<del> </del>		1	· · · · · · · · · · · · · · · · · · ·	+		· · · · · · · · · · · · · · · · · · ·	<u>1</u>	·	
۱.	.	£	RUNLENGTH INCO	8	ERY				E	8		-					
SCIS SIZE		RUN NUMBER	LENG	RECOVERY	RECOVER	8	RCD	E	3	SAMPLE IVE	DESCRIPTION	İ	SPT	TEST	l	R	QD
2	}	2	2	<u>S</u>	8	800	gt.	ਰੁ	DEPTH	GRAPHIC		<u> </u>	10 20 30	40 50 >5	ON	20 40	80° 80° 100
1								-	-[		Clay, dark brown, very soft consistency, high water content, hig						11
									-		plasticity, medium to high dry strength, organic smell	"]			1		
								-10.20	1								
		ŀ						~	-							1	
	-	İ						-	-			1					
-		귀	700 1	0	0	1	0 45	-11.20	2			h	•	1	1		
۳	ή	Ť	<u> </u>	Ť	Ť	Ė	Ť	7	_	V		∦					
			400					42.22	-					}			
SF	~	2   2	100	50	50 1	2	0 45	-12.20	3						2		
Γ	T							_	4	VØ					1		
l,	٥	3	40	30	75	0	0	~13.20	-								
1		3	1	1	2	3	45	_	1					{	3		
	-	-							-	1		∥					1 1
-	0	4	65	60	92	0	0	-14.20	5			-					
SI	7	4	1	2	4	6.	45	-	-1						6		
	1	ĺ															
H	Q	5	55	0	0	0	0	-15.20	6	M			1				
Si	귀	5	1	2	3	5	45	-	1		Shelby #1.				5		
Γ	7				-												
	۵	6	55	0	o	0		-18.20	7								
r	1	٦	-	-		۲	H	-									
SI	7	6	1	2	4	6	45	17.00		<b>1</b>	8.00 m	_	•		6		
H	0	7	55	0	٥	0	٥	-17.20	8	8	Gravel, week, consists of subrounded volcanic blocks, up to 50mm in	, ]	\				
-	$\dagger$	_					<u> </u>	-	-	١١٥	length, contains sandy silt and clay, high water content, moderate plasticity, moderate dry strength					ļ	
Si	7	4	4	6	8	14	35	-18.20	-  e	9			M	{	14		
1							l		-	0		İ				{	
۳	o	8	55	0	0	0	0		-	8						1	
S	-	8	7	10	10	20	30	-19.20	10	۷ő		_[_	1		20	1	

						<u> </u>											
					-		Swisat	boring	116YO	AS COPP. LID. CEPA JICA STUDY THE LOG OF BORING	m.						
										EGG OF BORNING	B	ORI	HO	F	88	Δ7	
					<u></u>										neet	^' 2/	/2
_		NIP RY:EL			-		OPP NAME OF			SOIL INVESTIGATION OFF SHORE				LY-34			
DEP			17.00		E I		TOM SEA			.: 627547; LAT.:246397 -8,00 chart datun (evel		DATE		S1 T-FINIS	vissbo		21/11/01
		SOIL	SAM	PLIN	G -							OGG			<u>,,,</u>		21/11/01
ш	NUMBER	5	. 5	5			GEOTE	CHN	ICA	INVESTIGATION FOR LA UNION PROJECT, EL SALVADO	R			Rodelf	Alva	nado	
TYPE	NO.	2	용	12		6											
삘	y				병	RECOVERED				swissb <b>o</b> ring							
SAMPLE	SAMPLE	1 SET	2 SET	3 35.7	N VALUE	RECO			S	vissboring Overeeas Corporation Ltd.	"	4SPE	CIO		Dr. F	rucal Y	ang .
	لمبيا	RO	:KC	ORE											•		
		8	£					П	Г		+				. ]		<del></del>
35	MBER	LENGTH	ž.	RECOVERY	ا ا			€ 2	8	DESCRIPTION			: ·			· ·	
CORE SIZE	RUN NUMBER	N LE	RECOVERY	SECO :	Rab an	Rab	E TO	DEPTH IN M	GRAPHIC LOG			SP	TTE	ST		L R	QD
SPT	_	∑ 15/50		*		*		8	કું	and the state of t	10	20	30 40	50 >5	N	20 40	60 80 10
SF.	-	15/50			>50	12		-	o						>50		
HQ	10	100	100	100	٥	0		-	0								
SPT	10	14/50			>50	13	-20.20	''	ြိုင			}	l			1 1	
			-		1			] _[	Q,						>50		
HQ	11	100	55	55	0	0		-	6								
Set	11	15/50			>50	14	-21.20	12	7 W			11					
									50						>50		11
HQ	12	100	30	30	0	0	-22.20	13	ြိ							11	11
SPT	12	13/50			>50	13	2220		્રિ િ			<b>[.</b> ]			>50	11	
но	4.5	4.25	145	100		,		-	Ş	13.40m	4	1				. ]	
		145 14/50		100	9 >50	12	-23.20	1.4		Gravel and clay, weak, consists of subrounded volcanic blocks, and			1		ll	-	
								1_	16	contains sandy silt and clay, high water content, moderate plasticity, moderate dry strength, brown gray brown.					>50		
НΩ	14	100	30	30	,	0		-	90	and any orange, stanning any stanna.					1		1 1
TGS		13/50			>50	j	-24.20	15	o				Ì				
							·	1-1	100				}		>50		11
HO	15	100	30	30	o			-	Ö								
SPT	15	15/50			>50	12	-25.20	16	10			1 [					
								-	16						>50		
HQ	16	130	30	23	ò	0			1							11	
$\vdash$				_			-26.20	17	÷	17.00 m END OF BORING					11		
								-									
															-		
								18					İ				
							"	18									
									}								
1								19	1		1	1	}				
							,**										
								[-]					İ				
					لبسا		<u> </u>	20]	٠		1	1 1	. !	L [	i	- 1 1	

							Swisst	oring O	versea	is Corp. Ltd. CEPA JICA Study Yearn		
		,				. *				LOG OF BORING	BOREHOL	
CLIE	NT:	NIP	PON	KOE	l ltd					SOIL INVESTIGATION ON LAND	DRILL RIG:	sheet 1/2 LY-34
COL			. <b>SAL</b> 15.60	VAD			ORDINAT	ES:	LONG	3: 627517.73; LAT.:246049.02 12:34 most	DRILLER:	Swissboring
DL.				PLIN		Ere	VATION,			12:34 most	LOGGED B	<del></del>
TYPE	NUMBER	15 cm	8	45 cm		us c	GEOT	ECHN	ICAL	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR		Rodolfo Alvarado
SAMPLE	SAMPLE	1 SET	2 SET	3 SET	N VALUE	RECOVERED			S	SWISSDOPING wissboring Overseas Corporation Ltd.	INSPECTOR	R Dr. Pucal Yang
		ROX	K C	ORE				· · ·	· · ·			
CORESIZE	RUN NUMBER	RUNLENGTH IN	RECOVERY on	% RECOVERY	RGD om	% AOD	ELEVATION m	ОЕРТН ІМ М	SRAPHIC LOG	DESCRIPTION	SPT T	RQD RQD 0 50 >5C N 20 40 60 8
КQ	1	55	55	100	0	0	-	-		CLAYEY SILT, dark reddish brown, medium plasticity, low to moderate water content, moderate dry strength, contains roots.		
SPT	1	7	12	11	23	43	11.34_	1_	V	0.55 m  SILTY SAND, beige to cream, low to very low water content, non-plastic,		23
на	2	55	55	100	0	0	1 1	-		high dry strength, contains rock blocks, sound to moderately weathered, up to 30mm in length, angular to sub-angular, weak to moderate strength.		
SPT	2	15	38	.45	>50	40	10.34_	2	¥	2.00 m		>50
но	3	55	30	55	0		_	-	D			
SPT		17			0 >50	0 40	9.34_	3_	Š	LAHAR, consists of volcanic blocks up to 300mm in length, most blocks are ranging in size from 20mm to 60mm in length, slightly to moderate		>50
но	4	55	25	45	0	0	-			weathered, weak, fine-grained matrix was not completely recovered, matrix consists of fine sand and silt, tuffaceous, no cemented, dark brown - gray, low consistency, low plasticity to non-plastic, moderate	<b>1</b>	
SPT	4	12	28	43	>50	40	8.34	4_	O	water content, moderate dry strength.		>50
HQ	5	55	40	73	0	0	-	-				<b>♦</b> >50
SPT HQ		15	34 45	27			7.34_ -	5_  -	$\mathcal{C}$			
			24		0 >50	9	6.34	-	$\sqrt{0}$			-cn
НО				91		73	-	-	O			
SPT	7	15	28	35	>50		5.34_	7	V			●>50
НО	7	55	25	45	0	0	-		0.0			
SPT	8	15	28	35	>50	40	4.34 <u>_</u>	- 8_	P			>50
HQ	8	55	40	73	0	0	- -	-				
SPT	9	16	32	45	>50	40	3.34_	9_	10			>50
НО	15	55	50	91	0	0			(3)			
SPT	10	16	34	39	>50	40	2.34	10_	¥:.			>50

					******		Selecte	whom O	<b>/01140</b> 01	Corp. Ltd. CEPA JICA Study Team	· · · · · · · · · · · · · · · · · · ·	
										LOG OF BORING		
											BOREHOLE:	BL-1
CLIE	NT:	NIP	PON	KOE	l Hd				<u></u>	SOIL INVESTIGATION ON LAND	<del></del>	heet 2/2
~~~~		Y:EL				co	ORDINAT	ES:	LONG	3.: 627517.73; LAT.: 246049.02	DRILLER: S	wissboring
DEF			15.60		m		VATION:		20,,,	12.34 mosl	DATE (START FINE	
	S	OIL.	SAM	LIN	G						LOGGED BY:	<u> </u>
, m	NUMBER	5	- 5	E		_	GEOTE	CHN	ICAL.	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	Rodolf	o Alvarado
TYPE	2	₽	8	\$		5	ļ					
BAMPLE	P.E		<b>I</b> ⊷	<b>}</b> -	VALUE	RECOVERED				swissb <b>o</b> ring	INSPECTOR	Bu Bur 134
₹	8AMPL	1 BET	2 SET	3 667	Ν	8			5	wissboring Overseas Corporation Ltd.	inor extore	Dr. Pucai Yang
		ROC	ЖC						-			• •
		2	E									
ы	BER	RUN LENGTH CM		RECOVERY		_	ε	· E	200	DESCRIPTION		_
CORE BIZE	RUN NUMBER	LEN	RECOVERY	ů,	5	QQ.	ELEVATION	DEPTH IN	BAMPLE TYPI GRAPHIC LOG	DECOIGE (10R	SPT TEST	ROD
	Ş	3 5	JE C	*	gg D	*	E1.8	8	3 8		10 20 30 40 50 >	5C N 20 40 60 80 H
HQ	16	55	25	45	0	0	_		3	Same material as above		
		H				<del> </del>	-	-	(V	10.65 m		
SPT	11	16	33	43	>50	40	1.34_	1,-	Ø	LAHAR, consists of volcanic blocks up to 200mm in length, most	]	>50
HQ	17	55	39	55	0	G			(3)	books are ranging in size from 30mm to 70mm in length slightly to moderately weathered, medium soft rock, weak, matrix is fine-to	<b>.</b>	
SPT	12	14	27	33	>50	40	-	-	\\ <u>\</u>	medium-grained sand, tuffaceous, loose, no plastic, low dry		
	-''-	-				10	0.34	12	Λ×	strength, little to not fines.		>50
									0			
HQ		55		73		0	_	-	₩			
SPT	14	14	23	34	>50	40	1.34	13	Vo			
									Ď			>50
HQ	19		30	55	0	0			\ \frac{1}{2}			
SPT	13	15	29	39	>50	40		-	Λ'n			
							-2.34_	14_	70			>50
HQ		55	25	45	0	0			0			
SPT	15	15	27	45	>50	40	-		۷ă			
							-3.34_	15_	Ì۵			>50
HQ	21	55	45	82	0	0	_		0	15.60 m END OF BORING		
	_								1			
								16				
İ	j											
Ì								17_				
					'			-			1	
								-				
					•			18_				
	İ											
ŀ								-				
								19_				
l											]	
		1			l	I	1	1 4	11		<b>]</b> :	

						Swissb	oring O	rersea	s COIP, LLIS, CEPA JICA STUDY TEAM LOG OF BORING	BOREHOLE: BL-2 sheet 1/2
CLIENT:					COC	ROINAT	ce	1.031	SOIL INVESTIGATION ON LAND G: 627658.00; LAT: 245900.00	DRILL RIG: LY-34 DRILLER: Swissboring
DEPTH		14,00	)	m		VATION:		LOIN	12.23 most	DATE (START - FINISH): 17-20/10/01
TYPE	SOIL.	SAMI	es ca	3 	tm2	GEOT	ECHN	ICA	L INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	LOGGED BY:  Rodolfo Alvarado
SAMPLE	1 SET	2 SET	3 SET	N VALUE	RECOVERED			s	SWISSDOTING wissboring Overseas Corporation Ltd.	INSPECTOR Dr. Pucai Yang
CORE SIZE RUN NUMBER	RUN LENGTH IN om	RECOVERY om X	% RECOVERY	ROD cm	, Rab	ELEVATION m	DEPTH (N. m.	SRAPHIC LOG	DESCRIPTION	SPT TEST ROD
		2			3 <sup>e</sup>	. ប	<u> </u>		Sandy silt with clay, stiff consistency, dark brown, moderate water content, low plasticity, moderate dry strength, contains scattered	
HQ 1	55		100	0	0	-	-		decomposed roots, organic debris and few weathered rock fragments up to 10mm in size.	
3PT 1	2	5	6	11	45	11.23_	1-		1.00 m	11
HQ 2	55	55	100	0	0				Sandy silt, hard consistency, tuffaceous, beige to light brown, low water	
SPT 2	6	12	18	30	45	10.23	2		content, non-plastic, low dry strength, contains some weathered rock fragments up to 30mm in size.	30
HQ 3	55	55	100	0	0	-	-			
SPT 3	18	28	39	>50	45	9.23_	3_	胍	3.00 m	>50
HQ 4	55	53	96	o	0	_	-	$\circ$	Lahar, weak, consists of some volcanic bolcks, up to 100mm in length, medium hard to hard rock, contains silt, sand, gray, low consistency, low	
SPT 4	27	37	38	>50	45	8.23_	-	V	water content, non-plastic, low dry strength.	>50
HQ 5	55	55	100	0	0	_		Ö		
3PT 5	5		33			- - 722	-	O	5.15 m	
						7 <i>2</i> 3_	]  -		Sand and silt, lighth brown to cream, loose to medium dense, consists of	47
HQ 6	55	40		0	0	-	_	(Po	fine to medium grained sand, purniceous, with silt and purnice, low water content, non-plastic, low dry strength, contains some rock blocks up to	1
<u> БРП 6</u>	2	8		18		6.23_  -	6_	1	50 mm in length.	18
HQ 7	55	28	51	0	0	· -	_	00		
SPT 7	2	3_	6	9	45	5.23_	7_	¥		9
HQ 8	55	30	55	0	0	7	-		7.55 m	
SPT 8	9	14	20	34	45	4.23	8_	$\parallel$	Sandy sitt with clay, hard consistency, light to dark brown, moderate to high water content, moderate plasticity, high dry strength, contains few	
но э	55	25	45	0	0		-		and scattered, weathered rock fragments up to 20mm in size.	
SPT 9	9	14	20	34	45	3.23_	9_	¥		34
HQ 10	55	55	100	o	٥	<b>-</b>				
SPT 10	6	3	9	18	45	2.23	10	$\mathbb{U}$	10.00 m	18
								٠		

_	*******				·			Swissb	orina C	versea	s Corp. Ltd. CEPA JICA Study Team				·		
											LOG OF BORING						
L												В	ORE	HOLE:	BL sheet		/2
	<del>-</del>				KOE						SOIL INVESTIGATION ON LAND			RIG: LY-3			
	EP			14.00	VAD	m m		ORDINAT	ES:	LON	3.: 627658.00; LAT.:245900.00 12.23 mosl		RILLE		Swiss		
					PLIN		1	VALIDIT.			12.20			START - FIN	NSH):	17-	20/10/01
ļ	,	NUMBER	ę.	e e	cui			GEOT	ECHN	IICAI	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR				lfo Alva	rado	
100	- (		15	ક્ષ	45		E Q					-					
1	SAMPLE	SAMPLE	SET	SET	SET	VALUE	RECOVERED				swissb <b>ering</b>	IN	SPEC	TOR			
-	•	Ø	-	7	m	z	8			S	Wissboring Overseas Corporation Ltd.		٠.				
H	T			KC	ORE							<del> </del>	······				
Ι.		ER	RUN LENGTH IN cm	8	ERY			E		w g			٠.			: . · .	
	CORCORE	RUN NUMBER	ENG	яесолея	RECOVERY	Ę	g.	ELEVATION	€ 3	SAMPLE TYPE GRAPHIC LOG	DESCRIPTION		SF	T TEST		R	QD.
	3	S.	NO.	REC	88	Rac	,e	лэтэ	и нтазо	S S		10	20 3	0 40 50:	>5C N	20 40	60 80 100
1	10	11	55	55	100	0	0	_ 	_				1				
s	PT	11	6	11	13	24	45	2.23	11		Sandy silt with clay, hard consistency, light to dark brown, moderate						
		12			100		o	-	-		high water content, moderate plasticity, high dry strength, contains fe and scattered, weathered rock fragments up to 20mm in size.	^			24		
	十							-	-					$V \mid \cdot \mid$			
8	-	12	8	14	16	30	45	0.23_ -	12_	7				•	30		
۲	0	13	55	55	100	0	0	_	-								
s	РΤ	13	15	15	17	32	45	-1.23_	13_								
		14	8	20	20	40	45	-	-						32		
H	o	14	10	10	100	0	0	-2.23_	14_	╢	14.00 m. END OF BORING				40		
								-	-								
									-								
						-			15_								
									_								
									16_								
									-								
									-								
		:							17_								
		ļ							-								
									18_								
								*	-								
	1			i i					19_								
									~								
L			l	L	L				20_	Ц.							

			PON				Swissh	oring C	YEFTE	COIP, Ltd. CEPA JICA Study Team LOG OF BORING SOIL INVESTIGATION ON LAND	BOREHOLE: BL-3 sheet 1/1 DRILL RIG; LY-34	
COL		₹Y:EŁ	. <b>SAL</b> 7.20				ORDINAT	ES:	LONG	3.: 627811.00; LAT.:245735.00 25.97 musl	DRILLER: Swissboring	
U.		SOIL	SAMI			ELE	VATION:	····		20.97	DATE (START - FINISH): 3-6/10 LOGGED BY:	<i>1</i> /01
SAMPLE TYPE	SAMPLE NUMBER	1 SET 15 cm	2 SET 30 cm	3 SET 45 cm	N VALUE	RECOVERED om	GEÓT	ECHN		INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR SWISSDOFING Wissboring Overseas Corporation Ltd.	Redolfo Alvarado INSPECTOR Dr. Pucal Yan	9
			CKC	ORE				· · · · · ·	<del></del> -			
CORESIZE	RUNNUMBER	RUN LENGTH IN CM	RECOVERY cm	% RECOVERY	Rab cm	% ROD	ELEVATION m	DEPTH IN A	GRAPHIC LOG	DESCRIPTION	SPT TEST RQ1	
ΗQ	1	55	0	0	0	0	-	-	9			
SPT	1	2	4	7.	11	30	24.97	_ 1	ا قا√	Clayey sift with fine sand, stiff to very stiff consistency, dark to reddish		
HQ	2	55	0	0	0	0	_	_	Ö	brown, low water content, moderate plasticity, moderate dry strength contains few weathered rock fragments up to 20mm in size, scattered		
SPT	_	9	12	24	36	35	23.97	-	00	and decomposed roots and organic debris.		
						:	23.51_	2_	T.		36	
HQ		55	0	.0	0	0	-	- -	o			
SPT				5/50			22.97_	3_	0		<b>♦</b> i>50	7
SPT HQ		20 60		5/50 100		25	21.97_	- 4_	×	3.60 m  TOP OF SOUND ROCK.  ANDESITIC BASALT, light to dark gray, hard to very hard rock, strong,	- >50	
							_	-		moderately close to wide spaced jointing, joints are smooth, close, contains iron-oxides and manganese films, dip 0°, 45° and 60°, core is fine-grained, igneous.		
НО	5	145	145	100	115	79	20.97	5_ -		in e-granteu, ignocos.		
							19.97_	6_	,			3%
HQ	6	150	150	100	125	83	· -	-				-
НQ	7	70	70	100	15	21	18.97_	7_		7.20 m END OF BORING	21%	
							- -	8,				
								- - - 9_				
								-				

	·	·	···· •				Swiss		Oven		Corp. Ltd. GEPA JICA Study Team		<del></del>		-		<del></del>	<del></del>	
											LOG OF BORING								
												во	REH	DLE		BL-			
CLIE	ENT:	NIPI	PON	KOF	Het						SOIL INVESTIGATION ON LAND	T 00				eet	1	/2	
		Y:EL				COC	RDINAT	ES:	LO	NG.	: 627915.01; LAT.:245627.02		ILL RIC			issbo	rina		
DEF			15.00		m	ELE/	/ATION:				30,91 mosl	+	TE (ST/					-29/9/01	ı
1		SOIL. S	SAMI	PLING	3 	ı						LO	GGED	BY:					٠
TYPE	NUMBER	15 cm	30 cm	45 cm		E .	GEOTI	ECH	NIC	AL	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR			Ro	dolfo	Alvai	ado		
SAMPLE	SAMPLE	1 SET	2 SET	3 SET	N VALUE	RECOVERED				Sv	SWISSDORING VISaboring Overseas Corporation Ltd.	INS	PECTO	OR.		Dr. F	Pucal Y	ang (	
		ROC	K C	ORE				·											
CORE SIZE	RUNNUMBER	RUN LENGTI4 IN CM	RECOVERY om	% RECOVERY	RCD em	% ROD	ELEVATION m	DEPTH IN M	SAMPLE TYPE	SKAPHICLOS	DESCRIPTION	[	SPT			]		RQD 60 80	]
ЧΩ				405			-	-				10,	1	i	Ť	1	1	1 1	_ <u>'''</u>
HQ	1	55	55	100	0	0		-	Ŋ		Top soil, Redish-brown, wet, low water content, low to						Ì		
SPT	1	6	8	11	19	30	29,91_	1_	H	ÿ	medium plasticity, sandy CLAY with gravels of 5 to 50 mm.				}	19	ļ		l
HQ	2	55	55	100	0	0	1	-					$\mathbb{N}$		-				ĺ
SPT	2	10	18	19	37	30	28.91_	2	14	2						37		{   {	
HQ	3	55 55	55	100	0	0	-	-		ار				X	Ì				
SPT	3	10	32	30	>50	45	_ 27.91_	_ 3_	K					,	1	>50			
НQ	4	55	55	100	0	o	_	-	-	1	3.60 m				1				
SPT	4	4	11	22	33	20	26.91_	4_	Ŋ.		LAHAR, weak, consists of sandy silt with clay, very stiff			/		33			
HQ SPT	<u> </u>	55 14		100 5/50		0 25	-	-			to hard consistency, moderate water content, low plasticity, moderate dry strength, contains angular, volcanic blocks up to 100mm in size, hard rock.								
HQ	6	65	65	100	0	0	25.91_	) <sup>5</sup> -		5				1		>50		}   }	
SPT	6	15	5/50		>50	20	~	-	V					-					ĺ
HQ	7	35		100		34	24.91_	6		عاد						>50		34%	
но	8	55	55	100	12	22	-	-									1_	<sub>  xx</sub>	
SPT	7	15/50			>50	15	_	<u></u> ב	H.	از				ļ		>50	_ ^	2%	ł
HQ.	9	55	55	100	10	18	23.91_	7_	1 6										
HQ SPT	-	35 14/50		100	0 >50	0 10	-	-								>50			
но	11	En l	EΛ	100	10	17	22.91_	8.							V				
SPT			20		45	20	-	-	14	깄					1	45	士	33%	
но	13	45	45	100	D	0	21.91_	- ا	- [ [ ]					1	-		丁		
SP.I	10	10	15	20	.35	25	_16.01_	] =_ 	N.	5				1		35			
но	14	55	55	100	0	0	-	-	1					[					
SPT	11	5	6	20	26	40	20.91	10	14							26			

<u> </u>		~~~	·		*******			wing Ov	W1001	Corp. Ltd. CEPA JICA Sherly Teen				***********
										LOG OF BORING				
											BOR	EHOL	Æ: BL	-4
611	CAIT.	NIP		*^~	1 44 4	·	<del></del>	···		CON INCOMOSTICATION ON LAND	T		sheet	2/2
		Y:EL				CO	OPPINAT	EQ.	LON/	SOIL INVESTIGATION ON LAND 5: 627915.01; LAT.:245627.02		L RIG; LER;	LY-34 Swissb	
DEF			15.00		m		VATION:		LON	30.91 inosi			T - FINISH):	23-29/9/01
	9	OIL.					T T					GED B		23-200001
	1	[ ہے ا		ا ۽ ا		}					]			
YPE	NUMBER	15 cm	30 cm	45 cm		Ę	GEOTE	CHNI	CAL	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	1	F	Rodolfo Alva	arado
,		-	n l			a					-			
BAMPLE	SAMPLE	_	t	<u>, , , , , , , , , , , , , , , , , , , </u>	VALUE	ž.	1			<b>swissboring</b>	INSP	ECTOR	l Dr	Pucai Yang
84%	SAN	1 9ET	2 SET	3 8ET	2	RECOVERED			S	wissboring Overseas Corporation Ltd.			. 21.	, add, rung
┢	·	ROC	K C			<u></u>	1							
						Γ			7		<del>                                     </del>			<u> </u>
ا ا	ER	Z.	5	凝		l	E							
SIZE	Š.	ENG	VER.	RECOVERY	8	ğ	δE	Ę	취호	DESCRIPTION		SPT T	EST	RQD
CORE SIZE	RUN NUMBER	RUN LENGTH	RECOVERY	#     #	Ş	,	ELEVATION	F 480	GRAPHIC LOG		10 20	30.40	EO SEO P	20 40 60 80 10
Ť	<u> </u>	- 4	-			<u> </u>	- 14	H	10		10 20	Ñ	30 /3L N	20 40 00 00 100
HQ	15	55	55	100	Ö	Q		]	lo				>50	
SFT	12	10/50		Н	>50	Q.	-	-	Л~				[[]	0%
]							19.91_	11_	10	From 11.0 15.0 m				
HQ	16	45	45	100	n	0	~	-		Cobble and Gravel, gray, hard rock, fresh to highly weathered, moderate strength to strong, close jointing, joints are rough, open,				
SPT			10/50		>50	20	1 -		∜∷	clean, core is fine-grained, igneous.			50	42%
HQ	17	120			50	42	18.91_	12	Τö					
<u> </u>	┝╌	<u>.                                    </u>				<b></b>	_	-	ŀ'n			1		┞┈┋╌┫┤│
SPI	14.	15	14/50	<u></u>	>50	.20		-	¥۲	•	1		>50	
но	18	80	an i	100	35	44	17.91	13					] ]]]	44%
		23			>50		"."-	"	$\sqrt{\Lambda}$				>50	<del>▍</del> ┆╾┦╏╽
						Γ	]	]	15					
1				1		1	-	-	10	•	1		{	23%
ю	20	80	80	100	18	23	16.91_	14_					1	┡┩╷╿╽
но	21	50	SO.	100	n	0	-	-					<u> </u>	
<u> </u>	<del>-</del> -	_	<b> </b>	<del> </del>	<u> </u>	Ť	1 -		10					0%
нα	22	50	50	100	0	0	15.91_	15_		15.00 m END OF BORING	] ]			
							_	-						
Ì					Ì '			-					]	
		Į.						16						
							]				]		] ] ]	
l						ĺ								
1						1		-						
					Ī	l		17-						
1					ł	1	1 '	17_	1					
					ľ	ĺ		1 1	1	· ·				
								18_ -						
					Ì			-						
								-						
1	l				1	į	}	19_	1					
1					ŀ		'	'"-						
1		1												
			l				-	]	1					
	<u>!</u>	<u> </u>		<u>L</u>	<u> </u>	<u> </u>	<u> </u>	20	L				1 1 1	

<del></del>			·				<del></del>								·			
							Swisst	soring C	)versea	COPP. Ltd. GEPA JICA Study Team  LOG OF BORING								
											во	RE	НО	LE:	Bl shee	5 +	1/2	
_	_		PON							SOIL INVESTIGATION ON LAND	DR	ILL I	RIG	LY-3		<u>`</u>		
DEF			SAL 13.00		DR m		ORDINAT	ES:	LONG	3: 627428.18; LAT.:245964.64 18,09 most	DR					oring		
			SAMI			Lere.	VALION.			10.03	LOC			RY - FIN	SH):	9	3-10/9/01	
TYPE	NUMBER	15 cm	30 cm	45 cm		c us	GEOTI	ECHN	IICAL	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR					to Alv	arado	·	
SAMPLE	SAMPLE	1 851	2 SET	3 SET	N VALUE	RECOVERED	:		S	SWISSDORING wiseboring Overeeus Corporation Ltd.	insi	PEC	то	R	Dr.	. Pucai	i Yang	
	l	RO	K C			بتا												
CORE SIZE	RUN NUMBER	RUN LENGTH IN COM	RECOVERY om	% RECOVERY	Rab em	% ROD	LEVATION m	оертн и м	SAMPLE TYPE GRAPHIC LOG	DESCRIPTION				TEST	<u> </u>		RQD	]
Ť	- 12-		<u></u>	-	-		<u> </u>		3	ORGANIC SOIL, sandy silt with clay, dark brown, medium plasticity		0 3	0 44	50 >	5C N	20 4	40 60 60	100
HQ	1	55	55	100	0	0				medium water content, medium dry strength, contains organic material (roots).					ļ			
SPT	1	3	8	10	18	45	17.09_	1_	\@	0.15 m					16			
HQ	2	55	55	100	0	0	-	-	(G)	SILT, reddish brown with traces of fine-grained sand and clay, low plasticity, low water content, moderate dry strength.								
SPT	2	10	19	. 17	36	40	16.09_	 2_	10	0.75 m  HIGHLY WEATHERED ROCK BLOCKS, light brown to beige, non- plastic, moderate to high dry strength, consists of sandy sitt with rock					36			
HQ	3	55	55	100	0	0	-	-	Q	blocks moderately to highly weathered, very weak.		ľ	П					
SPT	3	10	17	21	38	35	15.09_	_ 3_	\ do	2.55 m Sity sand, greenish gray-brown, low to very low plasticity, low water					36			
HQ	4	55	55	100	0	0	-	-	Ø.	content with some parts of high water content, low to moderate dry strength with rock fragments up to 50mm in size.				$\mathbb{N}$	-			
SPT	4	20	36	32	>50	30	14.09_	 4_	) o						>50			
на	5	55	55	100	0	0	_	-	Θ					И	į			
SPT	5	10	10	9	19	35	13.09_	5_	0.00				1		19			
на	6	55	55	100	0	0	_	-	) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	5.75 m			$\downarrow$		ĺ			
SPT	6	29	49	13/50	>50	32	12.09_	6_	18	LAHAR, sound to moderately weathered volcanic rock blocks up to 200mm in length with fine-grained material that was not recovered. From 9.15 to 9.45m depth, medium-to fine-grained sand bed with rock blocks	1			N	>50			
HQ	7	55	35	64	o	0	-	-		up to 50mm in length.								
SPT	7	29	<b>4</b> 5	10/50	>50	32	11.09_	7_	VIII W						>50			
НQ	.8	55	30	55	0	0	1											
SPT	.8	29	46	12/50	>50	32	10.09_	8_	V						\$ (>50 			
НΩ	9	60	55	92	46	77	1	-	\ Ø									
SPT	9	29	44	11/50	>50	32	9.09_	9_	A S						>50			
			.30 :			0		_ _				-						
SPT	10	29	49	9/50	>50	32	8.09	10_	183	10.00 m					>50	×		

		·					Switz	ating 0	Wers	Corp. Ltd. CEPA JICA Study Tean		
										LOG OF BORING	BOREHOLE: BL-5	
_		·					·				BOREHOLE: BL-5 sheet	2/2
	IENT:					00/	OBBILLA	~~		SOIL INVESTIGATION ON LAND	DRILL RIG: LY-34	
,	PTH		13.00		m		ORDINAT	ES:	LON	i.; 627428.18; LAT.:245964.64 18.09 mosl	DRILLER: Swissborin DATE (START - FINISH):	9-10/9/01
Γ	4	SOIL	SAMI	PLIN	3						LOGGED BY:	
TYPE	NUMBER	15 cm	88 cm	45 cm		E	GEOT	ECHN	IICA	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	Rodolfo Alvarad	lo
SAMPLE	SAMPLE	SET	SET	SET	N VALUE	RECOVERED			. 5	SWISSDORING Wissboring Overseas Corporation Ltd.	INSPECTOR Dr. Puc	ai Yang
-	1	ROI	CK C	ORF	Z.	α					·	
	T		Γ					]	Т		†	
CORE SIZE	RUN NUMBER	RUN LENGTH IN CM	RECOVERY em	* RECOVERY	wo o	Rab	ELEVATION m	DE9TH IN #	SAMPLE TYPE GRAPHIC LOS	DESCRIPTION	SPT TEST	RQD
			<del> </del>	Ī	gg	æ	ELE	oEb.	8 8		10 20 30 40 50 >5C N 20	40 60 80 190
HC	11	25	15	60	0	0	-		\	SILTY SAND, fine-to medium-grained, dark brown, low plasticity to not plastic, low dry strength, with some rock blocks up to 70mm in length		
SP	11	13/50	, 		>50	12	7.09	11	\c	From 12.40 to 13.00m depth, sandy silt with some rock blocks, to plasticity.	>50	
Н	22	80	40	50	0	0	_	-	00			
SP		11/50			>50	11	( -		4		>50	
He	23	80	50	හ	0	0	6.09_	12_	Ċ			
SP		9/50	25	83	>50	12 0	5. <b>0</b> 9_	13_	1	13.00 m END OF BORING	>50	
	1			32	ŭ.	Ť	0.00_		1	13.00 III CAD OF BOILING	<del>-</del>	
-								-				
				. [				14_				
								-				
								- 15_				
								-				
								-				
								16_				
								-				
								17_				
								-				
							}	18_				
								-	-			
								19_				
								-				
								_ 20_				

			-														
								:									
							Swisse	oring (	)versa	s Corp. Ltd. CEPA JICA Study Yearn	R					<del></del> .	
						1.5				LOG OF BORING							•
						-					. E	OR	ЕНО		BL-6 eet	1/1	
	~~~	NIP								SOIL INVESTIGATION ON LAND		DRIL	RIG	LY-34	COL		
	JNTF TH	Y:EL	. SAL 8.10				ORDINATI	ES:	LONG	3: 627722.32; LAT.:245654.87 35.18 mosl			LER;	····	issbori		
		OIL				[	VATION.			30,16			SED E	T-FINISH Y:	):	7-7/10/0	01
	<u> </u>	_	۰,				GEOTI	ENUN	licai	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR			4.		<u>.</u>		
7	NUMBER	15 cm	30 cm	45 cm		Ę	OLOTI	201111	II OAL	MATCHION FOR EA DISION PROJECT, EL SALVADOR			1	Rodolfo	Alvara	do	
ų,	щ		;	:	щ.	E E				swiechæring	Γ		-				
SAMPLE	SAMPL	SET	ŞE	35 E	N VALUE	RECOVERED				swissb@ring	18	NSPE	сто	₹	Dr. Pu	ical Yang	
		FOX	. K C	m DRF	Z	άč			5	visaboring Oversess Corporation Ltd.	İ	. "					
		Ę							T		╁		-	<del></del>			
	Ä	Ŧ	, E	당	i		E		17 PE		1			1.19			2
2000	RUN NUMBER	RUNLENGTH	RECOVERY	RECOVERY	C.	ğ	EVATION	£ <u> </u>	PHC LO	DESCRIPTION			SPT 1	EST		RQD	
	RUN	N S	REC	% %	ROD	*	ELEV.	рЕРТН	SAMPLE		1	0 20	30 40	) 50 >50	иж	) 40 60 1	80 m
ا		-	[ ]					-		Sitty sand with clay, stiff consistency, reddish brown, moderate water	- I				1		
2	1	55	55	100	0	0	-	-		content, moderate plasticity, high dry strength, contains scattered decomposed roots and organic debris.	ď	1					
7	1_	3	6	8	14	45	34.18_	1_	VIII,	1.00 m					14		
اء	. 2	55	55	100	0	0	-		8						İ		
1		00	-55	100	Ü		_	-	\	Silty sand with clay, low water content, low plasticity to non-plastic, low to	lo			N			
<u>'</u>	_2_	10	13/50		>50	28	33.18_	2_		moderate dry strength, contains traces of sub-angular to sub-rounder volcanic blocks up to 50mm in size, moderate to highly weathered	.d				>50		
۵	3	72	72	100	o	0	-	-		medium hard rock.		1.		1.11			1
'n	3	10/50		-	>50			_	V						>50		
							32.18_	3_	17	3.10 m	4						
Q	4	88	88	100	ō	ö	_		9	TOP OF WEATHERED ROCK.							
								-	8	ANDESITIC BASALT, dark gray, medium soft to medium hard rock	k.				r	111	$\exists$
							31.18_	4_	, o	slightly to highly weathered, weak to moderate strength, close to moderately close jointing, joints are stepped, rough, open, contains sill	t.			111			
							_	- ] -	Ó	fine-grained, igneous.			ŀ	1 1 1		899	*
Q	5	140	140	100	125	89	_ 30.18	-	Ø,	5.00 m			ļ				
				-			-	-	٠	TOP OF SOUND ROCK.					$\vdash$	+++	-
								7	,;;	ANDESITIC BASALT, dark gray, hard to very hard rock, strong moderately close to wide spaced jointing, joints are stepped and planar	g.				ł		50%
Q	6	100	100	100	50	50	29.18	т В_	,;	most joints are smooth and open, dipping 0°, 30°, 45° and 60°, joins contain manganese films, core is very fine-to fine-grained, igneous.	st	1 }		1   1			
			_					_	, ,	contain mangariese lilins, core is very line-to fine-grained, igneous.					-	† † † †	+
							-	-								100	0%
Q	7	100	100	100	100	100	28.18_	7_	3,								Ţ
								-	1		1					$\top \top \top$	
							_	-									59%
اہ		4					27.18_	8_									ا ۾
Q	8	110	110	100	65	59	-	-	<u>;'</u> (	8.10 m END OF BORING	-		{		L	441	
							_	_]					-				
								9_			}						
								-								11	
ļ								-									
!	<u> </u>				ш	لــا		10_	i	<del></del>	Ļ	1	1.	111		111	
							*		٠.		. 1					1+ . + +	
																•	
										D - 80	•	**					
										D - 00							
										· ·							

		-		***************************************			Swissi	oping O	versea	Corp. Ltd. CEPA JICA Study Tex	11						<del></del>	
1										LOG OF BORING								
							•				В	OR	EH	OLE:		L-7	4.0	
CLIE	NT.	NIPI	PON	KOE	i ita					SOIL INVESTIGATION ON LAND	77	DRII	LRI	G: LY-	she	et	1/2	
		Y:EL			_	COC	ORDINAT	ES: I	ONG	: 627334.52; LAT.:245880.25			LER			sborir	1g	
DEP			18.00			ELE/	VATION:			18.61 mosl				ART - FI	NISH):		12-15/9	9/01
	: [	OIL	SAMI	'LING	3 ·						'	_OG	GED	BY:				1
13 PE	NUMBER	ĝ	E	Ę		_	GEOT	ECHN	CAL	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR				Rod	lolfo A	lvara	do	
1 2	ž	ξ	8	45		шо . Q:					$\vdash$				~~~			
SAMPLE	SAMPLE		ta i	fa	VALUE	RECOVERED				swissb <b>oring</b>	íô	(SP)	ECTO	or OR	o	r. Pu	cai Yang	
3	S.	1 SE	2 SE	3 SET	2	REC			S	visaboring Overseas Corporation Ltd.					_			
			KC	ORE						· · · · · · · · · · · · · · · · · · ·	$\perp$	- :		·		·		
	*	٤ 2	E			·												
N N	MBER	표 5		OVER.	ء	٥	E I	E	8	DESCRIPTION		Г	SPT	TEST	F ]	I	RQD	<u>-</u>
CORE SIZE	RUN NUMBER	RUN LENGTH	RECOVERY	% RECOVERY	RQD: em	<u>S</u>	ELEVATION	DEPTH IN	GRAPHIC			_				·   -		'
НО	1	₫ 35	20	<i>\$</i> 57	Ŏ.	8	<u> </u>	呂	9 8	GRAVEL, weak, consists of fine sand and silt, low water content, no		20	30	40 50	>5C	N 2	0 40 60	80 100
		~	20	-51	- <u>-</u>	-	_	_∖	O	plastic, contains abundant, angular, volcanic blocks up to 200mm								
SPT	1	5	12		>50	_	_		N.O	size, hard rock.								
HQ	2	45	45	100	0	D	17.61_	1-	8		1	1	{		<b> T</b>  }	50		
SPT	2	12	27	34	>50	30		]	18									
							-	-	8		į				• >	50		
HQ	3	50	20	40	0	0	16.61_	2_	Ő		1							
SPT	3	21	35		>50		7	<u> </u>	0.		ł			-		- }		
<b> </b>			-					_	Ŏ.		ł				•   >	50		
HQ	4	45	35	78	0	0	15.61_	3_	Ö									
SPT	4	21	49	27	>50	30	~	]\	/g	3.50 m								
но	5	45	25	70	0	0	14,61	-		SILTY SAND AND GRAVEL, consists of fine-to coarse sand, gray, no plastic, very low dry strength, contains traces of sub-angular, volcan			] ]		<b>•</b>  >	50		
	7	-,3	رود	_19_			14.61	<sup>4</sup> -		blocks up to 150mm in size, weathered, weak.				ļ				
SPT	5	18	34	45	>50	30	_	]	W				} }			50		
		. [			:		13.61	-	O									
HQ	6	80	80	100	0	0	13.01_	3-	Ç			ì						. }
SPT	6	13/50		_	>50	13		-	V			ĺ		1	<b>   </b>  >	50		
HQ	7	80	30	38	0	0	12.61	- 	0									
$\vdash \vdash$	$\dashv$				Ě		***		X.									
SPT	7	18	37	10/50	>50	40	-	-	$\mathbb{W}$			ļ		Į Į	• >	50		
НО	8	40	35	88	0.	0	11.61	7			}	į	{	Ì				
П									o			}						
SPT	8	38	48	37	>50	45	-	-	8						<u> </u>  >	50		
HQ	9	40	35	88	0	0	10.61	8_	M					1/				
							-	]			1			Y	1			
SPT	9	12	18	17	35	45	-	+	†@			1		<b>-</b> (		35		
на	10	55	55	100	0	0	9.61_	9_	Š.			ļ		Y				
									ŏ.		}			$\mathbb{I}$				
но	11	80	50	63	0	D	-		o.									
SPT	10		10/50		>50	25	8.61_	10_		10.10 m				1	N١			,

							Swissi	boring	Overse	CCOP, Ltd. CEPA JICA Study Team							
										LOG OF BORING	pr	100	EHO	ı e.	BL.	7	
											bo	/I\L	-110	-	heet		/2
		NIF								SOIL INVESTIGATION ON LAND	DF	RILL	RIG	LY-34			
	HTC	RY:EL					ORDINAT	ES:	LON	3.: 627334.52; LAT.::245880.25			ER:		wissbo		
ULI		SOIL	18,00 SAM!		m G	ELE	VATION:			18.61 mosl	-		(STAR	RT - FINIS	H):	12	-15/9/0
	1				Ī						100	000	0000	".			٠,
F.	NUMBER	15 cm	cm C	5		E	GEOT	ECHI	VICA	. INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	1	٠		Rodolf	o Alva	rado	
-	z	"	8	45		1 1					-				<del></del>	<del></del>	
SAMPLE	SAMPLE	_	<del> -</del>	,	VALUE	VER				swissb <b>o</b> ring	INS	SPE	стоі	R ·	Dr J	Pucai Y	ana
Š	Š	, SET	2 SET	3 SET	ž	RECOVERED	-		S	wisaboring Overseas Corporation Ltd.	}"'	J, L	,		<i>O</i> 1. 1	ucai i	ong
		RO	CK C	DRE		-									٠		
		E 5	_						П		T					· ·	
***	띘	RUN LENGTH IN	, cm	ERY			E	_	الم الم							-	
CORE SIZE	RUN NUMBER	LENG	VER	RECOVERY	5	ê	NOTA	<u>z</u>	일일	DESCRIPTION		\$	PT 1	EST	]		(QD
8	2	Ş	RECOVERY	% %	8	 18	ELEVATION	DEPTH	SAMPLE		10	20	20. 4/		C N		60 80
=	==							_			1	20	30 4	T 1	>50	20 40	<del>- 30 30</del>
								_		LAHAR, weak, light to dark gray, consists of angular, volcanic blocks up to 60mm in diameter, moderate weathered, medium hard rock, sandy	1						
IQ.	12	85	50	59	0	0	-		<b>1</b>	tuffaceous matrix, low water content, non-plastic, very poorly cemented.	1		1	1 11	[		
РТ	11	34	5/50		>50	20	7.61_	11_	\\Z								
		H			-			-	13				Ì		>50		<u>.</u>
	. '		1.1	1.	'	1	_	] _	3		ÌΪ		1			1	}
		75		33		0	6.61_	12_	Ş			ł					
1 1	12	26	5/50		>50	20	-	-	거성	12.40 m	].			•	>50		
		İ					-	-	ď	SANDY SILT, very weak, light gray, moderate water content, los	1				;		
HQ	14	75	60	80	0	0	5.61	13_	o.	plasticity, moderate dry strength, contains few, angular, volcanic block	4		-				
SPT	13	24	10/50		>50	25	_	_	7.	up to 30mm in size, moderate to high weathered, medium hard rock.	11		1		>50		
							-			2.000		Ì	į		İ	ŀ	
HQ	15	75	20	27	0	0	4.61	14	12	13,60 m	1		- {		}		
SPT	14	8	10/50		>50	22	_		$\mathbb{N}$	LAHAR, weak, light gray, consists of some angular, volcanic block	,		1		>50		
							_	_	7	varying in size from 5mm to 70mm in size, medium hard to hard rock moderate weathered, contains silt and sand, tuffaceous, low wate	1				-		
HQ	16	75	70	93	0	0	201	-		content, non-plastic, low dry strength, not-cemented.		1					
PT	15	22	10/50		>50	23	3.61_	15_	\X			1	-		٠		
_		-						_	T (S			-			>50		
		1						_	I X			ĺ	ł				
HQ SPT		75	45	60		0	2.61_	16_				ļ					
JP 1	10	1 34	10/50	-	>50	25	~	_	¥%						>50		
							-	-	1 18			-					
ΗQ	18		40		a	0	1.61_	17_			$\  \ $	-	ł				
SPT		12	10/50		>50		_	-	$\mathbb{X}_{3}$			į			>50		
HQ SPT	19 18	25 21	50 10/50	200	0 > <del>5</del> 0	0 20	-	-	K				}				
HQ	20			267		0	0.61_	18	H//	18.00 m END OF BORING		-			>50		
		Γ			Γ			_	[[‴	The state of the s	1		Ì				
							· -	-				1	-				
					•			- ئر				İ	Į				
					Ì		-1.61_	19_					İ				} }
							_	_				ĺ					
								-			H	-	Ì				
		1	ł				-2.61_	20_	Ц			Ì	- }		,		ļ İ

	٠													
				******	<del></del>		0(0.0)			≤ Corp. Lbf. CEPA JIGA Shudy Team	······································			
							SWALL	ooning t	/VE(3-	LOG OF BORING	BORE	HOLE	: BL sheet	
				KOE		000	2001147		1.01	SOIL INVESTIGATION ON LAND IG.: 627479.00; LAT.:245736.00		RIG: LY	-34	
DEP			10.00		m		ORDINAT	ES:	LON	16.63 most	DRILL	ER: ISTART -		boring 22-29/10
- 1	- 1	OIL	SAM	PLIN(	G 	1	ı				LOGG	ED BY:		
TYPE	NUMBER	15 cm	30 68	45 cm		mo O	GEOT	ECH	IICAL	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR		Ro	dollo Alva	rado
SAMPLE	SAMPLE	1 SET	2 SET	3 SET	N VALUE	RECOVERED			S	SWISSDORING wisaboring Overseas Corporation Ltd.	INSPE	CTOR	Dr. I	Pucai Yang
		ROC	K C	DRE				· ·				·- <u>·</u>	· · · · · · · ·	
CORE SIZE	RUNNUMBER	RUNLENGTH IN	RECOVERY om	BECOVERY	Rab cm	Rab	ELEVATION m	OEPTH IN A	SAMPLE TYPE GRAPHIC LOG	DESCRIPTION	s	PT TES	īT ]	RQD
	Œ			*		₹		Ö	φ (ö.		10 20 3	30 40 5	0 >5C N	20 40 60 8
HQ	1	55	55	100	Ó	0			\	Clayey silt, tuffaceous, ligth to dark brown, very stiff to hard consistency,				
SPT	1	9	22	17	39	45	15.63_	1_	<b>\</b>	low to moderate water content, low plasticity, low to moderate dry strength, contains some angular to sub-angular rock fragments up to		7	39	
ΗQ	2	55	55	100	0	ø				12mm in length		/		
PT	2	4	10	5	15	35	14,63	2		2.00 m			15	
на	3	55	55	100	0		_							
7							. <del>-</del>	-				N		
SPT	3	10	34	50	>50	35	13.63_	3_	1	Lahar, medium gray, low consistency, weak, low water content, low			>50	
HQ	4	55	55	100	0	0				plasticity, low dry strength, contains abundant rock fragments up to 5mm in length, poorly cemented, sandy silt matrix.				
SPT	4	5	10/50	_	>50	25	12.63_	4_	VZ				>50	
НQ	5	80	80	100	0	0	· –	-	8					
SPT	5	12	20	35	>50	35	11.63_	5.		5.00 m			>50	
HQ	6	55	37	67	0	0	-	-	) : : :	Sand, very dense, weak, contains abundant angular basaltic and andesitic rock fragments up to 110mm in length, medium hard to hard				
OT	6					35	40.00	-	0.0	rock fragments, matrix was not recovered.				
							10.63_	6_	S <sub>C</sub>	From 6.0 to 10.0 m			>50	
ΗQ	7	50	35	70	0	0	_	-	Ø	Gravel, medium low to low consistency, weak, contains abundant angular basaltic and andesitic rock				
SPT	7	22	34	32	>50	35	9.63_	7_	Q 0.0	fragments up to 110mm in length, medium hard to hard			>50	
HQ	8	100	41	41	0	0	_	- -	<b>6</b>	rock fragments, matrix was not recovered.				
эрт	8	18	22	45	>50	35	8.63_	8	78				<b>+</b> >50	
НΩ	9	100	20	20	0	0	_		3.0					
SPT	9	12/50			>50	10	7.63_	9_	75				>50	
اء		_	,					3.7 	O					
SPT	10	13/50			0 >50	—	_	-	(9) (9)				>50	
HQ	11	12	5	42	0	0	6.63	10_	<u> [3]</u>	10.00 m END OF BORING				
			-							D - 83				٠

_	<del></del> -	<del></del> -		···		<b></b>	Swisst	boring Or	Versez	Corp. Ltd. CEPA JICA Study Tean	·····	·····	<del></del>	<del></del>		·		
						* .			•••••	LOG OF BORING								-
					-						BO	REH	OLI	E,	BL-	9 .		-
			<u>.</u>			·		· · · · · · · · · · · · · · · · · · ·			: .	. •		sh	eet	1.	/1	
		NIP					:			SOIL INVESTIGATION ON LAND	DR	LL R	lG: L	Y-34	******			
		Y:EL				_	DRDINAT	ES: L	ONC	.: 627633.24; LAT.:245572.56	_	LLEF			issbo	ring		
DEF			5.50		m	ELE	VATION:			45,04 most	_			FINISH	):	21-	21/9/0	11
	}	SOIL :	SAMI	LINE	<b>.</b>	, !					Loc	3GE[	) BY:			. 1	4.	.
	85.5	Ę	es S	8			GEOT	ECHN	ICAL	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR		. * *	 P	odolfo	Alvai	ado		
Ϋ́	NUMBER	2	8	45 0		£					1			000,10				
					161	GĘ.												
SAMPLE	SAMPLE	l:	SET	SET	VALUE	RECOVERED			٠	<b>swissboring</b>	INSI	PEC1	OR		Dr. F	ucai Y	ana	
ςς.	8	1 SET	2 8	8	z	38			S	visaboring Overseas Corporation Ltd.		٠.						,
		ROC	KC	ORE							1							
		E									1				- 1			
	gg.	Z I	Ę	λ			E	l lu	4		100		1.					
3ZE	RUN NUMBER	RUN LENGTH	ĘĘ.	RECOVERY	E	ရှ		E N H	SRAPHIC LOG	DESCRIPTION		SPI	TE	ST		F	QD.	ا ر
CORE SIZE	ž	Z H	RECOVERY		Rap c	80	ELEVATION	DEPTH IN	Ĭ		-	-			'.		<del></del>	_
8	쮼	€	뿞	*	×	*	1	Dep	18		10 2	0 30	40 !	50 >50	N	20 40	60 80	) 100
Un.			ا _ ا	ا	_	ا ۔ ا	٠ -	-		SANDY SILT, dark brown, stiff consistency, low to moderate water content, low to moderate plasticity, high dry strength, consists of silt with	1					-		$\Box$
HQ	1	50	50	100	0	0	-	-		fine sand, tuffaceous, contains scattered basaltic and andesitic roo	4			].				
НQ	2	50	50	100	0	0	44.04	-		fragments, ranging in size up to 70mm in length, in the upper pa	t i			Ì				
110	-	100	30	100	ř	, U	44.04_	<b> </b> '-\		exhibits scattered roots.				Ì				
SPI	1	3	4	6	_10	40		- 1	VZ	1.50 m			ļį	-		.		1
		]					-	1 7	₩.	GRAVEL, consists of angular to sub-angular, volcanic rock fragment	7	Ì			10			1. 1
но	3	55	55	100	0	0	43.04_	2_	<u>@</u>	up to 80mm in length, contains very fine-to fine-grained sand, medium	1 1\							
HQ	4	30	30	100		0		J _\	O	gray.	}	$\setminus$				- {		
SPT	2	8	15	14	29	40	_	- -	10.	2.00 m	] }	ᢤ.			29			
<u> </u>	-	<del> </del> -						-	6.	GRAVEL, consists of angular, andesitic and basaltic rock fragments uto 15mm in length, silty sand matrix, not consolidated and not cemented.								
HQ.	5	70 4	70	100	0 35	0	42.04_	3_	0	light brown.	1	1	( I	1				
<b>9Ρ</b> Ι	3	4	14	21	35	40		{ -{\	(is)				9		35			
	İ	1					-	1 🕇	ð.		1	1		i		ŀ		11
HQ.	6	100	100	100	0	0	41.04	4	0				ן ו	\				
SPT	···	6		5/50		<del>}</del>		]	(9)	4.30 m				1				
<b></b>							_	}	쑮		山			7	>50			
								_	18	LAHAR, weak, light gray, consists of some angular, volcanic block		31	1%					
HQ	7	65	65	100	20	31	40.04_	5_	6	varying in size from 5mm to 50mm in size, medium hard to hard rock moderate weathered, contains silt and sand, luffaceous, low water		Ц		İ				
110	۱		ا ِ ا			ا ِ. ا	-	-	90	content, non-plastic			1					
HQ	8	50	50	100	20	40	-	-	8	CTO. CID or com-	╁-┼-	44	19%	Ì				
.								-		5.50 m END OF BORING		-		į.				
								6_				1		İ				
														İ				
								]				{	1					
								7_								j		
								_		•								
								-						.				
					Ī			-						i			}	
								8_										
		1						-				1				}		
		1						-								-		
					1			9_										
		1														]		
								_										
1	1		Į					-				1		ĺ	ll			
ــــــــــــــــــــــــــــــــــــــ	<u>.                                    </u>	L	L	<u> </u>	<u>L</u>	L	L	10_	Ш		1	1	! !		: I	.ļ	<b>!</b>	1

							5wissb	oring (	Dyerse	s Corp. Ltd. GEPA JICA Study Team LOG OF BORING	BOREHOLE:	BL	-10
CLIC	NT:	AUG	~	۲٥٥		· · · · · ·	·			COLUMNICATION ON LAND	Т ::::::::::::::::::::::::::::::::::::	sheet	1/1
	INTR					COC	ORDINATI	FS:	1.08	SOIL INVESTIGATION ON LAND 3: 627740.67; LAT.:245459.70	DRILL RIG: LY- DRILLER:	34 Swissb	oring
DEP	·		9.00		m		VATION:	==:		43.20 mosl	DATE (START - FI		18-19/9
	: S	OIL	MAG	LINC.	3						LOGGED BY:		
TYPE	NUMBER	15 cm	30 cm	45 cm		£	GEOTE	ECHI	NICA	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	Rod	lolfo Alva	arado
SAMPLE	SAMPLE	SET	SET	SET	N VALUE	RECOVERED				SWISSBOTING wissboring Overseas Corporation Ltd.	INSPECTOR	Dr.	Pucai Yang
	ا	ROC	K C	ORE		12							
CORE SIZE	RUN NUMBER	RUN LENGTH IN CIN	RECOVERY on	RECOVERY	ROD cm	ROD	ELEVATION m	E N HL	SAMPLE TYPE	DESCRIPTION	SPT TEST		RQD
НО	1	₹ 55		100		<i>*</i>	<u>ਗ</u>	- -	8 8	Sitty ctay, dark brown, stiff consistency, low to moderate water content low to moderate plasticity, high dry strength, consists of clayey sit with sand and weathered basaltic, andesitic rock fragments up to 7mm is	1	>5C N	20 40 60
SPT	1	8	6	5	11	30	- 42.20	- 1		length, in the upper part exhibits sca	1		
HQ	2	40	40	100		0	,2.40	_			1 1	11	
	$\dashv$		_				-	-	C	ղ 1.40 տ	1   1   1	} }	
HQ HQ	3	35 25	35 25	100 100	0	0	41.20	2_		Coluvial deposits, volcanic rock fragments and	N		
HQ	5	40		100	_	0	-11.20		V	sandydilt material, contains blocks fresh to highly weathered, weak to strong, block up to 30 cm. In			
HQ	6	60	60 60	100	 n	0	40.20	_ a		length, and sandy silt, low water content, low to moderate strength, low plasticity.			
SPT	2	20	30	40	>50	15		_	Ηc			>50	
на	7	40	40	100	0	0	-	-	C	3.80m			
но	8	30	30	100	ó	0	39.20_	4_		From 3.8 to 8.0 m	1		
SPT	3	30	40		>50	$\vdash$	4		1	Andesite rock, ligth gray, sligthly to moderate		>50	
HQ	9	90	90	100	0	0	-	-		weathered, moderate strength, very close jointing joints are opened, rough, with clay an oxid stains			]
_	_	$\Box$					38.20_	5_					
SPT HQ	10	35 15	40 15	50 100	>50 ^	10 0	-	-				•	
	~		13	,00				-					
HO	11	<u>75</u>	75	100	.0	D.	37.20	6_					]
но	12	40	40	100	0	0		-					
	. }								K				$ \  \  \  $
HQ				100	_	0	36.20	. 7_	Ċ				
HQ	14	30	20	67	0	0	_	_		From 8.0 to 9.0 m			<u> </u>
								_		ANDESITE, light brown - gray, medium hard to hard rock, slightly			
на	17	70	55	79	21	30	35.20_	8_ 		weathered, moderate strength to strong, close to very close jointing joints are open to moderately open, planar, rough, contain clay mineral and dip 20°, 30° and 45°.			30
	. [						-						
но	18	100	100	100	امد	44	34.20	- 9_		9.00 m END OF BORING			44
							_	-		ZAZIII EDD ZE ZYMINO	1		
	. [							_					
- 1	ı	l	. 1		.		33.20	10				]   '	