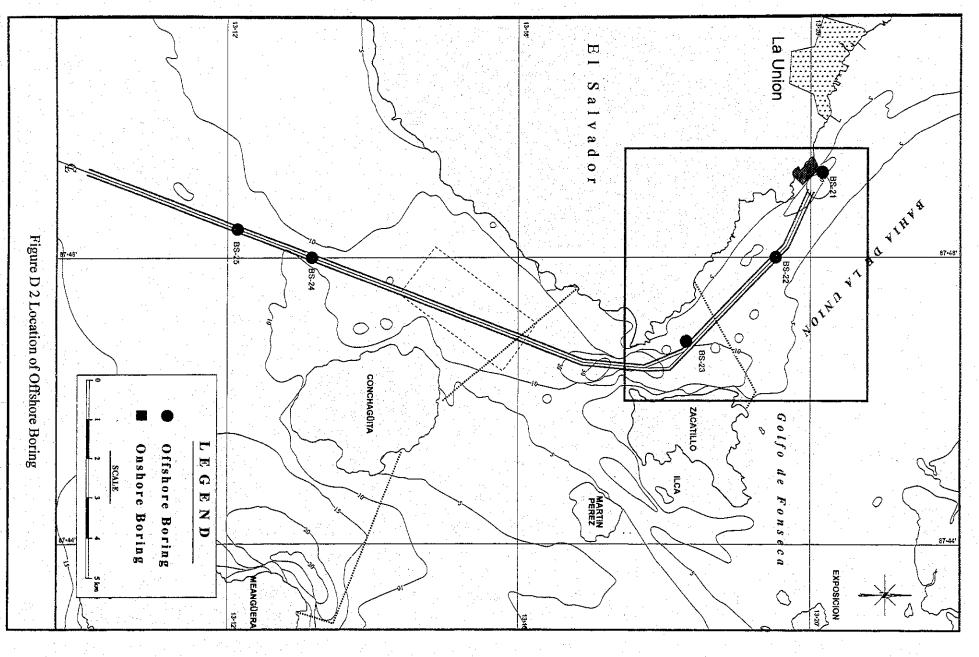
## APPENDIX D GEOTECHNICAL INVESTIGATION



D-2

<u> </u>							
		Table D.1	Coordin	nates of Bori	ng Location		
Borehol	CDL	Geogr	aphic	WGS 84	4 System	NAD 27	7 System
e No.	(m)	Latitude	Longitude	Northing	Westing	Northing	Westing
BS-1	-6, 92	246392	627666	13° 20′ 5.0″	87° 49′ 17.8″	13° 20′ 1.7″	87° 49′ 17.8″
BS-2	-10.52	246487	627767	13° 20′ 8.1″	87° 49′ 14.5″	13° 20′ 4.8″	87° 49′ 14.4″
BS-3	-11.27	246432	627818	13° 20′ 6.3″	87° 49′ 12, 8″	13° 20′ 3.0″	87° 49′ 12.7″
BS-4	-11.02	246375	627870	13° 20′ 4.4″	87° 49′ 11.1″	13° 20′ 1. 1″	87° 49′ 11.0″
BS-5	-10.92	246320	627923	13° 20′ 2,6″	87° 49′ 9.3″	13° 19′ 59.3″	87° 49′ 9.2″
BS-6	-11. 22	246265	627963	13° 20′ 0.8″	87° 49′ 8.0″	13° 19′ 57.5″	87° 49′ 7.9″
BS-7	-10.82	246230	628007	13° 19′ 59.7″	87° 49′ 6.5″	13° 19′ 56.4″	87° 49′ 6.5″
BS-8	-10. 17	246175	628058	13° 19′ 57.9″	87° 49′ 4,8″	13° 19′ 54.6″	87° 49′ 4.8″
BS-9	-10.17	246120	628110	13° 19′ 56.1″	87° 49′ 3.1″	13° 19′ 52.8″	87° 49′ 3.1″
BS-10	-9. 87	246065		13° 19′ 54.3″	87° 49′ 1.4″	13° 19′ 51.0″	87° 49′ 1.3″
BS-11	-8. 17	246030	628197	13° 19′ 53.1″	87° 49′ 0.2″	13° 19′ 49.8″	87° 49′ 0.2″
BS-12	-7. 32	245975	628247	13° 19′ 51.3″	87° 48′ 58.6″	13° 19′ 48.0″	87° 49′ 58.5″
BS-14	-5.74	246309	627759	13° 20′ 2.3″	87° 49′ 14.8″	13° 19′ 59.0″	87° 49′ 14.7″
BS-15	-4.72	246170	627872	13° 19′ 57.7″	87° 49′ 11.0″	13° 19′ 54.4″	87° 49′ 11.0″
BS-16	-4.67	246080	627957	13° 19′ 54.8″	87° 49′ 8, 2″	13° 19′ 51.5″	87° 49′ 8.1″
BS-17	-4.67	245969	628062	13° 19′ 51.2″	87° 49′ 4, 7″	13° 19′ 47.9″	87° 49′ 4.7″
BS-18	-7.02	245880	628146	13° 19′ 48.3″	87° 49′ 2.0″	13° 19′ 45.0″	87° 49′ 1.9″
BS-19	-4. 47	246075	627867	13° 19′ 54.7″	87° 49′ 11.2″	13° 19′ 51.3″	87° 49′ 11.1″
BS-20	-3. 57	245873	627957	13° 19′ 48. 1″	87° 49′ 8.2″	13° 19′ 44.8″	87° 49′ 8.2″
BS-21	-13.22	246471	628194	13° 20′ 7.5″	87° 49′ 0.3″	13° 20′ 4.2″	87° 49′ 0.2″
BS-22	±11.52	244948	630277	13° 19′ 17.6″	87° 47′ 51.3″	13° 19′ 14.3″	87° 47′ 51.2″
BS-23	-12. 32	243276	631950	13° 18′ 22.9″	87° 46′ 56.0″	13° 18′ 19 6″	87° 46′ 55.9″
BS-24	-11.67	234904	630607	13° 13′ 50.7″	87° 47′ 42.0″	13° 13′ 47.4″	87° 47′ 42.0″
BS-25	-12.07	230223	628656	13° 11′ 18.7″	87° 48′ 47.6″	13° 11′ 15 4″	87° 48′ 47.5″
BS-A1	-11,00	246554	627700	13° 20′ 10.3″	87° 49′ -16.7″	13° 20′ 7.0″	37° 49′ 16.6″
BS-A2	-11. 27	246624	627637	13° 20′ 12.6″	87° 49′ 18.8″	13° 20′ 9.2″	87° 49′ 18.7″
BS-A3	-10, 20	246548		13° 20′ 10.1″	87° 49′ 23.1″	13° 20′ 6.8″	87° 49′ 23.1″
BS-A4	-5. 70	246471	627375	13° 20′ 7.6″	87° 49′ 27.5″	13° 20′ 4.3″	87° 49′ 27.4″
BS-A5	-4.00	246421	627288	13° 20′ 6.0″	87° 49′ 30. 4″	13° 20′ 2.7″	87° 49′ 30.3″
BS-A6	-2.20	246345	627206	13° 20′ 3.5″	87° 49′ 33.1″	13° 20′ 0.2″	87° 49′ 33.1″
BS-A7	-9. 20	246417	627554	13° 20′ 5.8″	87° 49′ 21.5″	13° 20′ 2.5″	87° 49′ 21.5″
BL-1	13. 41	246048	627517	13° 19′ 53.8″	87° 49′ 22.8″		87° 49′ 22.8″
BL-2	13. 52	245900	627658	13° 19′ 49.0″	87° 49′ 18.2″	13° 19′ 45.7″	87° 49′ 18.1″
BL-3	27. 26	245735	627811	13° 19′ 43.6″	87° 49′ 13.1″		87° 49′ 13.1″
BL-4	32, 20	245627	627915	13° 19′ 40.1″	87° 49′ 9.7″	13° 19′ 36.8″	87° 49′ 9.6″
BL-5	19.38	245965	627428	13° 19′ 51. 1″	87° 49′ 25.8″		87° 49′ 25.7″
BL-6 BL-7	36. 47 19. 90	245655 245883	627723	13° 19′ 41.0″ 13° 19′ 48.5″	87° 49′ 16.1″		87° 49′ 16.0″ 87° 49′ 28.7″
BL-7	19. 90	245883	627341 627479	13° 19′ 43. 7″	87° 49′ 28.7″ 87° 49′ 24.2″		
BL-8	46. 33	245736	627633	13° 19′ 38.3″	87 49 24.2" 87° 49' 19.1"	13° 19′ 40. 4″ 13° 19′ 35. 0″	87° 49′ 24.1″ 87° 49′ 19.0″
BL-10	40. 33	245572		13° 19′ 34.7″	87° 49′ 15.5″		87 49 19.0 87° 49′ 15.5″
		L=Chart Date		10 10 34.1	01 49 10.0	13 19 31.3	01 49 10.0
	11000. CD	C-CHAIL DAN	بالماء بين ويدم				

Table D.2 Summary of Unconfined Compressive Strength Together with Index Properties

_	Borehol		ер	th	Unit	MC	<del></del>	erberg L	imit	UC	_
Layer	e No.		- 1	7.7	weight		LL	PL	$\Pi$	$\mathbf{q}_{\mathfrak{u}}$	Remarks
			(m	)	kN/m³	%	%	%	IL.	kN/m²	
i	BS-1	1.30	-	2.00	12.9	164.5	129.4	65.4	1.5	1.4	
1	BS-1	5.30	_	6,00	14.4	103.8	74.3	46.0	2.0	5.0	
1	BS-4	7.30	-	8.00	13.5	114.5	101.8	57.4	1.3	7.0	
2	BS-4	9.30	-	10.00	16.9	38.5	38.3	16.9	1.0	44.6	
1	BS-5	4.00	-	4.70	14.8	89.8	82.4	45.9	1.2	4.2	
1	BS-5	6.00	_	6.70	12.5	172.3	128.0	69.1	1.8	1.3	
1	BS-5	8.00	-	8.70	19.5	86.8	126.8	77.7	0.2	1.2	
1	BS-6	3.00	-	3.90	15.9	75.0	123.3	66.4	0.2	4.5	
1	BS-7	9.30	-	10.00	11.6	102.4	51.0	37.7	4.9	5.1	
1	BS-8	2.00	-	2.70	13.4	134.3				11.2	
1	BS-8	4.00	-	4.70	13.7	122.9	110.5	62.8	1.3	16.9	
1	BS-8	6.00	-	6.90	12.1	166.5				4.4	
1	BS-8	8.00	-	8.70	11.8	197.0			1, 1	19.9	
1	BS-9	5.30	-	6.00	12.1	131.5	112.7	69.5	1.4	9.6	and the second
1	BS-10	1.30	[-	2.00	13.0	115.4	79.9	47.0	2.1	5.4	
1	BS-10	3.30	-	4.00	14.0	113.5	99.3	64.1	1.4	9.4	:
1	BS-10	5.30	-	6.00	13.9	121.0	104.1	65.0	1.4	13.8	······································
1	BS-10	7.30	-	8.00	13.7	122.0	115.2	69.0	1.1	11.8	
1	BS-10	9.00	-	9.70	12.4	173.0	112.4	68.9	2.4	28.7	
. 1	BS-11	3.30	-	4.00	13.5	128.0	118.6	60.1	1.2	5.8	
1	BS-11	7.30	-	8.00	14.2	108.4	119.4	68.1	0.8	15.9	
1	BS-12	2.65	-	3.35	14.0	121.5	85.0	49.5	2.0	2.6	
2	BS-12	5.00	-	5.40	18.5	38.2	50.5	34.2	0.2	- 59.8	:
1	BS-14	9.30	-	10.00	12.7	202.1	243.3	153.8	0.5	14.6	
1	BS-15	1.30	-	2.00	12.8	93.3	109.0	58.8	0.7	2.8	
1	BS-16	1.30	-	2.00	13.2	145.7	135.5	66.3	1.1	0.9	
1	BS-17	5.30	-	6.00	13.5	135.0	111.9	63.3	1.5	7.0	
1	BS-17	16.00	_	16.70	13.1	95.2	116.1	71.3	0.5	10.0	
1	BS-18	11.50	Ŀ	12.30	12.3	147.8	146.2	24.1	1.0	32.5	
1	BS-20	7.45	-	8.15	17.8	43.8	26.0	22.1	5.6	13.1	
1	BS-21	3.00	L-	3.70	13.6	125.0	116.7	58.3	1.1	15.4	
1	BS-21	7.00	_	7.70	14.2	100.3	81.0	46.6	1.6	26.2	
1	N	Ainimu	n		11.6	38.2	26.0	16.9	0.2	0.9	
1	N	Jaximu	m		19.5	202.1	243.3	153.8	5.6	32.5	
1		Average	3		13.9	119.7	105.1	58.8	1.5	10.3	<del></del>

Note: MC=Moisture Content, LL=Liquid Limit, PL=Plastic Limit, IL=Liquid Index( IL= (MC-PL)/(LL-PL)), UC=Unconfined compression strength

of Cohesive soil.

 $1 \text{kgf/m}^3 = 10 \text{kN/m}^3$ ,  $1 \text{kgf/cm}^2 = 100 \text{kN/m}^2$ .

						Table :	D.3 S	ummar	y of One	-Dimens	ional Co	onsolidat	tion Test	Results				
		_			Vio	l ratio		C	oefficient	of consol	idation C	v (cm2/mi	n)	Coefficie	nt of volu	me compre	ession mv	(m2/kN)
Layer	Borehol e No.	1	Эер	th	initial	final	Cc		at ea	ch average	pressure	stage			at each ave	erage pres	sure stage	
			(m	)	e <sub>o</sub>	e		1st LS	2nd LS	3rd LS	4th LS	5th LS	6th LS	1st LS	2nd LS	3rd LS	4th LS	5th LS
1	BS-1	1.30	-	2.00	4.57	1.18	1.18	0.0035	0.0043	0.0047	0.0068	0.0102	0.0126	2.50E-03	1.02E-03	4.24E-04	1.74E-04	6.79E-05
1	BS-4	9.30	-	10.00	1.16	0.88	0.33	0.8040	0.7830	0.7640	0.7380	0.7000	0.6450	2.58E-04	1.83E-04	1.32E-04	9.90E-05	7.50E-05
1	BS-5	6.00	-	6.70	4.55	1.19	1.09	0.0044	0.0042	0.0045	0.0055	0.0066	0.0131	2.04E-03	9.60E-04	4.40E-04	1.90E-04	6.80E-05
1	BS-7	9.30	-	10.00	2.80	1.37	0.78	0.0730	0.0650	0:1000	0.0870	0.0990	0.1650	1.12E-03	7.04E-04	4.00E-04	2.10E-04	1.07E-04
	BS-8	2.00		2.70	3.72	1.31	0.99	0.0099	0.0072	0.0085	0.0094	0.0154	0.0219	1.96E-03	1.00E-03	4.67E-04	1.69E-04	7.12E-05
1	BS-8	4.00	-	4.70	3.25	1.18	1.13	0.0210	0.0150	0.0120	0.0140	0.0170	0.0180	1.75E-03	1.22E-03	5.85E-04	2.51E-04	1.10E-04
1	BS-8	6.00	-	6.90	4.54	1.83	1.54	0.0180	0.0150	0.0120	0.0100	0.0100	0.0100	1.52E-03	1.06E-03	6.00E-04	2.90E-04	1.27E-04
1	B\$-8	8.00	-	8.70	5.55	3.30	1.11	0.1260	0.0460	0.0290	0.1190	0.2130	0.1840	1.35E-03	8.60E-04	2.20E-04	1.66E-04	8.50E-05
1	BS-9	5.30		6.00	3.34	1.83	0.75	0.0880	0.0110	0.0320	0.0840	0.1450	0.1780	1.80E-03	6.60E-04	2.20E-04	1.79E-04	6.97E-05
1	BS-10	1.30	_	2.00	3.31	1.68	0.66	0.0270	0.0090	0.0400	0.0640	0.0570	0.3050	2.27E-03	3.77E-04	2.18E-04	1.51E-04	6.08E-05
1	BS-10	3.30	-	4.00	3.28	1.19	1.11	0.0210	0.0120	0.0100	0.0120	0.0130	0.0180	2.20E-03	1.23E-03	5.38E-04	2.28E-04	9.83E-05
1	BS-10	5.30	-	6.00	3.31	1.86	0.75	0.0400	0.0160	0.0350	0.0580	0.0850	0.1050	1.82E-03	6.02E-04	2.33E-04	1.69E-04	7.72E-05
1	BS-10	7.30	-	8.00	3.49	1.73	0.94	0.0350	0.0190	0.0110	0.0490	0.0360	0.0500	1.82E-03	1.25E-03	2.56E-04	1.68E-04	9.33E-05
1	BS-10	9.00	-	9.70	3.57	1.37	1.46	0.1290	0.0840	0.0150	0.0120	0.0120	0.0070	1.33E-03	1.52E-03	7.46E-04	2.90E-04	1.19E-04
1	BS-11	7.30	-	8.00	2.89	1.19	1.20	0.0640	0.0330	0.0200	0.0130	0.0110	0.0100	1.01E-03	9.17E-04	6.37E-04	3.06E-04	1.51E-04
1	BS-12	2.65		3.25	3.38	0.93	1.05	0.0150	0.0090	0.0290	0.0240	0.0140	0.0190	2.44E-03	9.52E-04	5.21E-04	2.24E-04	1.16E-04
2	BS-12	5.00	-	5.40	1.20	0.95	0.20	0.3910	0.1890	0.1850	0.2810	0.3430	0.1620	2.53E-04	1.84E-04	1.18E-04		
2	BS-12	6.00	-	6.70	2.94	1.71	0.66	0.1650	0.0670	0.0640	0.1870	0.1290	0.1340	9.62E-04	6.14E-04	1.97E-04	1.36E-04	
1	BS-15	1.30	-	2.00	4.46	2.48	0.70	0.0050	0.0450	0.0770	0.0530	0.1320	0.1180	3.53E-04	2.68E-04	2.38E-04	1.25E-04	5.74E-05
1	BS-16	1.30	_	2.00	3.84	1.10	1.03	0.0070	0.0060	0.0070	0.0060	0.0090	0.0090	2.22E-03	9.62E-04	4.20E-04	1.84E-04	8.00E-05
1	BS-17	5.00	-	5.70	3.55	1.24	1.14	0.0190	0.0040	0.0080	0.0100	0.0100	0.0140	3.03E-03	1.06E-03	5.00E-04	2.10E-04	7-10E-05
1	BS-18	11.50	-	12.30	3.25	1.71	0.91	0.0630	0.0280	0.0140	0.0290	0.0360	0.0680	1.21E-03	1.25E-03	4.13E-04		
1	BS-20	7.45		8.15	1.72	1.24	0.40	0.6000	0.4430	0.9640	0.9160	1.2150	1.1110	4.79E-04	2.75E-04	1.78E-04	1.15E-04	
1		Minimu	m		1.16	0.88	0.20	0.0035	0.0040	0.0045	0.0055	0.0066	0.0070	2.53E-04	1.83E-04	1.18E-04	7.50E-05	4.72E-05
1	]	Maximu	ım		5.55	3.30	1.54	0.8040	0.7830	0.9640	0.9160	1:2150	1.1110	3.03E-03	1.52E-03	7.46E-04	3.06E-04	1.51E-04
1		Averag	e		3.24	1.44	0.88	0.1137	0.0798	0.1019	0.1162	0.1383	0.1407	1.49E-03	7.97E-04	3.63E-04	1.79E-04	
	Note: 1.S	-1 ond 6	****													-		

Note: LS=Load Stage.

					*****		Swissb	oring Oversa	s Corp. Ltd. GEPA JICA Study Ta	Mq
									LOG OF BORING	·
										BOREHOLE: BS-1
CLI	ENT:	NIF	PON	KOE	ı İtd	Γ			SOIL INVESTIGATION OFF SHORE	sheet 1/2 DRILL RIG: LY-34
COI	ITAL	RY;EL	SAL	.VAD	OR	CO	ORDINA	TES:	13° 20′ 5″ - 87° 49′ 17.8″	DRILLER: SWISSBORING
DEF	РΤΗ		1	7.00	m	80	TTOM S	EA LEVE	-6.92 Chart Datum Level	DATE (START - FINISH): 27-28/10/01
		SOIL	SAM	MLK	G					LOGGED BY:
TYPE	NUMBER	15 cm	30 cm	46 cm		wo	GE	OTECHN	CAL INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	RODOLFO ALVARADO
SAMPLE	SAMPLE	1 SET	2 657	3 857	N VALUE	RECOVERED		;	SWISSDORING wissboring Overseas Corporation Ltd.	INSPECTOR Dr. PUCALYANG
<u> </u>		RO	K C	DRE		,		<del>, , </del>		
CORE SIZE	RUN NUMBER	RUN LENGTH IN	яесомену сп	* RECOVERY	RoD om	% Rab	ָ ש כסך	DEPTH IN M SAMPLE TYPE GRAPHIC LOG	DESCRIPTION	SPT TEST RQD  10 20 30 40 50 >50 N 20 40 60 80 100
SPT	_1_	1			1	.45	1	-\	Silty clay - clay , greenish gray, very soft consistency, high water content, high plasticity, moderate dry strength, contains traces or	
SPT	2	_1_			_1_	45	-7,92 - - -8,92	1 2 2	fine sand and shells fragments  Shelby tube sample 1	1
SPT	3	1			_1_	45	-9.92 -9.92 -	3	kdem material	
SPT	:				1	45	-10.92 	1		
SPT						45	 -11.92 	5		
SPT	6	1_1_	. 1_	1	2	45	-12.92 	6	Idem material, moderate water content.	2
SPT	7	1	3	4	_7	45	-13.92	7		7
SPT	8	9_	15	21	36	45	-14.92 -		8.00 m Sandy gravel, gray to dark, moderate water content, moderate dry strength, low plasticity, exhibits blocks up to 10mm in length, hard consistency.	36
SPT	9	15	24	32	>50	45	-15.92			>50
	<u> </u>	<u> </u>	L		L	<u> </u>	-16.92	10		

<u> </u>			*****				Swisabo	riog O	40(3 <b>0</b> 4	a Corp., Ltd., CEPA JICA Sturty Teas	na		
										LOG OF BORING	вокеноц	E: sheet	BS-1
CLI	-NT-	NIP	PON	KOF	1 841					SOIL INVESTIGATION OFF SHORE	DRILL RIG: L		2/2
		₹Y:EL				COO	ORDINA	TES:		13* 20' 5" - 87* 49' 17,8"	DRILLER;		BORING
DEF				7.00			TOM S		VEL		DATE (START		27-28/10/01
	5	SOIL	SAM	PLIN	G		-				LOGGED BY		
TYPE	NUMBER	16 cm	30 cm	45 cm		шo	GE	OTEC	HNK	CAL INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	RODO	LFO ALV	ARADO
SAMPLE	SAMPLE	1 SET	2 SET	3 SET	N VALUE	RECOVERED			s	SWISSDORING Wissboring Overeeus Corporation Ltd.	INSPECTOR	Dr. PU	CAI YANG
		ROC	KC	ORE									
CORE BIZE	RUN NUMBER	RUN LENGTH IN	RECOVERY on	RECOVERY	cm	ReD	E	OSPTH IN M	GRAPHIC LOG	DESCRIPTION	SPT TE	ST	RQD
ğ	2	2 E	SEC.	# 3	Q Q	æ	둱	E S	1		10 20 30 40	50 >5C N	20 40 60 80 100
SPT			21		>50		-	1	0	Idem material, exhibits blocks up to 20mm in length.		>50	
		1											
ent	44	40	20	40	\c0	46	-17.92 	11	0	Idem material, exhibits blocks up to 20mm in length.			
SP1	-1.1	19	34	40	230	15	-	+	13			>50	
							-18.92	12	ф Ф	*			
SPT	12.	19.	32	45	>50	25		1	¥o	·		>50	
							-19. <b>92</b>	13	8				
SPT	13.	19	32	46	>50	20		1	œ			>50	
							-20.92	14	200				
SPT	_14.	19	32	46	>50	.17	-	1	Vo			>50	
							-21.92	- 15	0	15.00 m			
		400					-	-	Q.	Gravel and tuffaceous silt, consists of subangular volcanic blocks,			
НО	4	1100	65	65	0	0	22.92	16	90	up to 200 mm in length, moderate to highly weathered, weak, contains tuffaceous sift, yellowish orange, moderate water content.			
							-24.32	٦	0	low plasticity, low to moderate dry strength, water laid.			
НΩ	5-	100	100	100	Q	.Q.	-	-	00				
HQ	6	55	50	91	0	0	-23.92	17	0	17.00 m END OF BORING			
							-   -	1					
							24.92	18					
								1					
							-25.92	19					
		-					_ _						
					ļ		-26.92	20					

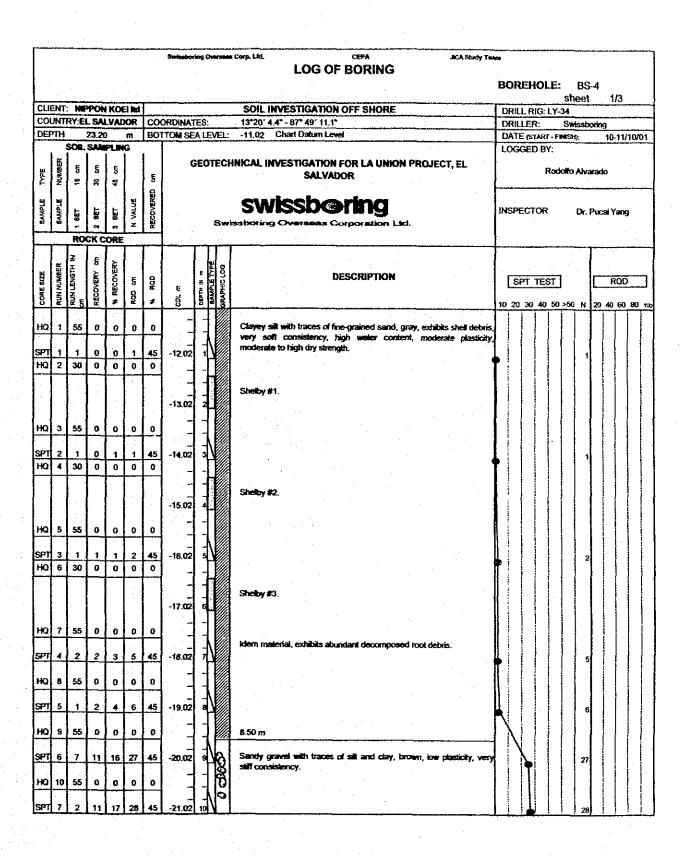
<del></del>							Swissbor	ing O		Corp. Lid. CEPA JCA Study Ten							
										LOG OF BORING						_	
											BOR	KEHO	OLE		BS- eet		72
		RY:E				——	ODDINA			SOIL INVESTIGATION OFF SHORE		⊥ RIC		-34			
DEF			16.00		m		ORDINAT		VFI ·	13° 20' 8,1" - 87° 49' 14.5" -10.52   chart datum level		LER: E (ST/			issbo		044464
		SOL	SAM	PLIN	G							GED		11137	ŋ:	20-	21/11/01
TYPE	NUMBER	16 om	₽ ₽	#5 pm		· Ę	GEOTE	CHI	(ICAI	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR			Ro	dolfo	Alva	rado	٠
SAMPLE	SAMPLE	1 8ET	2 8ET	3 BET	> VALUE	RECOVERED			S	SWISSDORING wissboring Oversass Corporation Ltd.	INSP	ECTO	)R		Dr. F	²uçai Y	ang
		RO	CK C	ORE		L =											
CORE SIZE	RUN NUMBER	RUNLENGTH IN	RECOVERY on	* RECOVERY	RQD om	% ROD	<del>د</del> اری	DEPTH IN III	GRAPHIC LOG	DESCRIPTION		PIT		_			00
ΗQ			130			0	-11.52	-	o l	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	T	30	40 50	3 >50	N	20 40	50 80 1
SPT HQ		6		15	25	20 0	-12.52_ - -13.52_	2	0000	Shelby #1.  2.00 m  From 2.0 to 4.5 m  Gravel, weak, consists of abundant subrounded volcanic blocks up to 50mm in length, contains fine to coarse sand, and clayey silt, high water content, low plasticity, low dry strength	A 1.0 ( )	~			25		
SPT			25			15	-14.52_	4 1 4	0000	From 4.5 to 13.70 m	***************************************			7	>50		
HO 당타	3		155	100	0 >50	0 5	-15.52_ -15.52_ - -16.52_	5	500000	Gravel, week, consists of abundant basaltic and andesitic blocks up to 200mm in length, hard rock, contains still and sand, moderate to high water content, low plasticity to non plastic				•	>50		
HQ. SPT	4	95 10/50		100	0 >50	Q 10	-17.52_	- - 7.	<b>€</b>						>50		
HQ SPT		95 15/50	95	100	0 >50	0 12	- - -18.52_	- - 8_	0000					•	>50		
अभा अन्	6	90_ 14/50	45	50	0 >50	0 13	-19.52	9.	800g	·				•	>50		
HQ SPT	7	86 10/50		35	0 >50	0 10	-20.52	10_	(B)						>50		

		·	<del></del>	<b></b>			Swissbor	ing Oy	trank.	Corp. Ltd. CEPA JICA Study Yes		
										LOG OF BORING	•	į
												3-2
l ci	IENT	: NW	PON	KO	i bel	Γ				SOIL INVESTIGATION OFF SHORE	Sheet DRILL RIG: LY-34	1 2/2
		RYE				co	ORDINATI	ES:		13° 20' 8.1° - 87° 49' 14.5°	DRILLER: Swisst	voivo
Đ	тн		16,00		E	BOI	TOM SEA	LE	ÆL;	-10.52 chart datun level	DATE (START - FINISH):	20-21/11/01
	1	SOIL:	SAM	P1.IN	G :						LOGGED BY:	
TYPE	NUMBER	15 cm	30 cm	to gr		Ę	GEOTE	CHN	ICA	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	Rodolfo Alv	arado
	1	-	"		E I	RED				autoch artma		
SAMPLE	BAMPLE	8ET	2 BET	SET	N VALUE	RECOVERED			s	SWISSDORING wisaboring Overseas Corporation Ltd.	INSPECTOR Dr.	Pucai Yang
		RO	CKC	ORE	لبيا			<del>,</del>				
		ž	5		į							
l u	BER	RUN LENGTH IN		RECOVERY	_			ε	2	DESCRIPTION		
CORE SIZE	RUN NUMBER		RECOVERY	JEGG.	5	S.	E 103	NI ATTEN	ORAPHIC I		SPT TEST	RQD
8	12	ਏ €	Æ	*	AQD.	*	ŭ.	8			10 20 30 40 50 >50 N	20 40 60 80 160
		li		٠.			_	-	b	Attended to the second of the		
1	8	95	30	32	o.	0	-	-	00	Idem material as above		
SP	1	13/50			>50		-21.52_	11	D.		>50	
							_		٦β		]	
1							~	-	6			
SP		87 10/50		34	0 >50	10	-22.52	,-	ŏ			
ř	1			_					<i>\$</i>		>50	
							-		O,			
	7	100		50	0	0	-	-	Ь			
SP	11 10	13/50			>50	10	-23.52_	13_	Нo		>50	
		l l					_	-	0			
	7	100		100		0			Ø			
SP	T 11	10/50			>50	10	-24.52_	14-	3	13.70 m	>50	
Н	12	50	50	too	٥	0	_		Ģ.	Brecciaceous tuff, weak to moderate weak, dark brown to gray		
Γ							_		8	consists of subangular to subrounded clasts, ranging in size from	nd	
H	13	55	55	100	0	0	-25.52_	15_	ò	4mm to 60mm in length, medium soft to hard rock, matrix is sandy fulfaceous, moderate cemented, water laid, massive	1	
							_	-	0	,		
							-	1	Ď.			50%
ж	14	100	100	100	50	50	-26.52_	18_	9	16.00m END OF BORING		
1							-	-	1			
Ĺ							-	-				
1		1					-	17				
	1						_					
l							-	-				
							-	18_				
									1			
									1			
ĺ							-	- 19_				
1								19_	1		1 : [ ! ! !	
				1				[ ]				
		]					_	[ ]				
<u></u>	<u> </u>							20_	上			

Γ							Swissbo	wing Overse	s Corp. Lini. GEPA JRCA Shudy Tee	<b>III</b>	
									LOG OF BORING	- C	
				-						BOREHOLE:	BS-3
Gil	NT	NI	PON	KOE	1 thri	Τ			SOIL INVESTIGATION OFF SHORE	she	et 1/3
****	~		LSAL			$\frac{1}{\infty}$	ORDINAT	TS:	13°20' 6,3" - 87° 49' 12.8"	DRILLER: Swit	ssboring
DEF	भार		23.20	1	m			A LEVEL	-11,27 Chart Datum Level	DATE (START-FRESH):	11-17/9/01
Ι,		SOIL	SAM	PLIN	G					LOGGED BY:	
TYPE	NUMBER	15 cm	30 em	45 cm		шo	GEOTE	CHNICA	. INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	Rodolfo /	Nvarado
SAMPLE	SAMPLE	1857	2 857	3 SET	א אירוחב	RECOVERED		s	SWISSDORING wissboring Overages Corporation Ltd.	INSPECTOR (	Or, Pucal Yang
		~	CK C	ORE	····						
CORESIZE	RUN NUMBER	RUN LENGTH IN AM	RECOVERY om	% RECOVERY	RQD om	% Rab	כסר ש	DEFTH IN M SAMPLE TYPE GRAPHIC LOG	DESCRIPTION	SPT TEST 10 20 30 40 50 >50	RQD N 20 40 50 80 100
НΩ	1	55	Đ	0	0	o	_	-	Clayey silt, with traces of fine-grained sand, greenish gray, exhibits few		
SPT	1	1	1	2	3	45	-12.27	1	shell debris, moderate plasticity, soft consistency.		3
HQ	2	55	a	0		0	_	-	1,00 m		
SPT	2	11	22	28	50	35	-13.27	<sup>2</sup> √8	From 1.0 6.0 m Coarse-to medium-grained sand, with traces of sitt, gray, exhibits small		50
НΩ	3	55	0	0	0	0	<u>.</u>	- 8	to medium, pumiceous gravel, very dense.	<b>                                     </b>	
SPT		12	17	26	43	35	14.27	709	Idem material, exhibits abundant shell debris, dense sand.	]	43
SPT	4	25	12/50		>50	20	J	10			-50
HQ	4	55	0	0	0	0	-15.27	- 8		1	
SPT	5	15	22	24	46	20	-	- <b>V</b> 0			46
но	5	55	0	0	0	0	-16.27	5 0			
SPT	6	13	18	27	45	20	-	-\\\g	Idem material, exhibits abundant shell debris, dense sand.		45
ΗΩ	6	55	0	0	0	0	-17.27	i 6	From 6.0 to 9.25 m		
SPT	7	20	27	35	×50	20	-		Gravel, weak, consists of abundant angular to subangular basaltic and andesitic blocks ranging in size from 6mm to 150mm in length,		-50
HQ HQ	7	55 55	0	0	0	0	-18.27 -	- 7000	contains sit and sand, moderate to high water content, low plasticity to non plastic		
нα	8	120	0	0	0	0	-	1 - 1 6			
SPT	8	15	25	32	>50	20	-19.27 -	*\\} -\\$	Gravel 0% to 80% Fines 20% to 100%		<b>-50</b>
HQ	9	55	0	0	0	0	-	1 3			
ापट	9	30	39	47	>50	15	-20.27 -	a <b>/</b> /\$2	From 9.25 to 14.0 m		×50:
НΩ	10	75	60	80	0	o	-21.27	- 10 CO CO	Medium to fine-grained sand with traces of silt, beige gray, traces of fine, purniceous gravel, loose to medium dense.		

····	,		···-			• • • • •	Swissbo	cing O	V36.244	is Corp. Ltd. CEPA JEA Study Tea	m
					٠			•		LOG OF BORING	
											BOREHOLE: BS-3 sheet 2/3
CLIE	NI:	NIF	PON	KOE	1 Htd	Ι				SOIL INVESTIGATION OFF SHORE	DRILL RIG: LY-34
			SAL				ORDINAT			13°20′ 6.3" - 87° 49′ 12.8"	DRILLER: Swissboring
DEP			23.20 <b>SAM</b>		m	ВОТ	ITOM SE	A LE	VEL:	-11.27 Chart Dahim Level	DATE (START - FINESH): 11-17/9/01 LOGGED BY:
.	1		1		Ī	1					
TYPE	NUMBER	18 am	30 cm	45 cm		e d	GEOTE	CHI	IICA	L INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	Rodolfo Alvarado
SAMPLE	SAMPLE	1 357	2 SET	3 8ET	A VALUE	RECOVERED			S	SWISSBORING wissboring Overseas Corporation Ltd.	INSPECTOR Dr. Pucal Yang
			CK C	ORE		r					
CORE SIZE	RUN NUMBER	RUN LENGTH IN OM	TECOVERY om	% RECOVERY	RGD om	4 Rab	w 100	DEFINEN IN	GRAPHIC LOG	DESCRIPTION	SPT TEST ROD
ō	~	- E	┝┺╌		-	*	5		15		10 20 30 40 50 >5C N 20 40 60 80
нα	11	100	70	70	0	0	 -22_27	- - 11	3º 800	Same material as above	
SPT	10	4	6	10	16	35	_	-	S		6 16
НΩ	12	55	55	100	0	0.	-23.27	12	5		
SPT	11	6	8	15	23	40	_	-	ß		23
HQ	13	55	55	100	0	0	-24.27	13	8		
SPT	12	18	26	33	>50	33	_	-	b		>50
ю	14	55	55	100	0	0	-25.27	14	00	14.00 m	
SFT	13	22	33	45	>50	40	-		\ <sub>D</sub>	Gravelly clay with fine to medium-grained sand, reddish brown,	>50
ΗО	15	55	55	100	0	0	-26.27	- 15	000	exhibits tittle traces of coarse to fine gravel, angular to subarigular, basaltic and andesitic, ranging in size from 4mm to 300mm in length, moderate plasticity, hard consistency, moderate to high water content.	
SPT	14	18	31	39	>50	20	-	   	<u>ا</u>		>50
SPT	15	30	13/50	49	>50	15	-27.27	- 16		15.50 m	• i>50
нα	16	55	40	73	0	0	- -	-	10:33	Brecciaceous tuff, sub-angular to sub-rounded, ranging in size from 5mm to 300mm in length, basaltic and andesitic rock.	
HQ	17	55	В	15	0	0	-28.27	17	80.10 80.10		
на	18	55	27	49	0	0	-	-		17.50 m	
SPT	16	20	35	40	>50	45	-29,27	18	<b>V</b> ::	17.60 m  Medium to fine-grained sand with traces of silt, gray, exhibits some fine gramed gravel, very dense sand.	e >50
но	19	55	15	27	0	o	<del>-</del>	-   -			
SPT	17	27	36	49	>50	30	-30.27	19	\  ::		>50
на	20	55	18	33	0	0	_	-			
SPT	18	31	40	48	>50	10	-31.27	20	∜∷		>50

<u> </u>				···-			Swissbor	ring Ov		Corp. Ltd. CEPA JCA Study Y								
										LOG OF BORING			:					
											B	ORI	EHOL		BS neet	_	13	
		NHF								SOIL INVESTIGATION OFF SHORE	D	RILL	RIG:			<u>`</u>		
	PHI PHI	RY:E	23.20	-	m		ORDINAT		/FI	13°20′ 6.3° - 87° 49′ 12.8° -11.27 Chart Datum Le <del>vel</del>		~~~	ER:		nissb		4740 b	
	1	SOIL	SAM							1127	_		ED B		#1):	11	17/9/	<u> </u>
TYPE	NUMBER	15 om	30 cm	46 om		E	G	EOT	ECH	NICAL INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR			F	Rodolf	Alva	rado		
SAMPLE	BAMPLE	t SET	2 BET	3 BET	N VALUE	RECOVERED			S	SWISSDORING visaboring Overseas Corporation Ltd.	IN	SPE	CTOR		Dr.	Pucai \	'ang	
	' т	RO	CKC	ORE				· .	<del>,</del> ,		L							. :
CORE SIZE	RUN NUMBER	RUN LENGTH IN	RECOVERY on	RECOVERY	cm c	ROD	E	H M H PLEIVPE		DESCRIPTION		SP	T TES	<u>i</u>		F	QD	
8	3	ž 5	REC	*	g.	*	ij	DEPTH IN	ORAPHIC		10	20	30 40	50 >5	0 N	20 40	60 8	O 100
НО	21	55	34	62	0	0	_	- 		Same material as above								
							-32.27	21		21.2 m			25	%				
HQ	22	100	100	100	25	25	_	-	O	Brecciaceous tuff, weak to moderate strength, consists of subengule to sub rounded basatic and andesitic clasts, ranging in size from to 250mm in length, matrix is sandy tuffaceous, non plastic, sof	4							
но	23	55	55	100	22	40	-33.27 -	22	ĕ <b>Q</b> Q	to a second the second			40%					
но	24	85	63	74	30	35	-34.27	23	000	23.20m END OF BORING			35%					
							- 1	24										
								25										
								- 26										
-							:	-										
								27										
								27										
								1										
								29										
								30										



l							Swissbo	ring C	V#154	s Corp. Ltd. CEPA JRCA Salely T	Teams	
								-		LOG OF BORING		
												BOREHOLE: BS-4
CLI	ENT:	NIP	PON	KOE	I ttu		············	·		SOIL INVESTIGATION OFF SHORE	7	sheet 2/3 DRILL RIG; LY-34
				.VAD			ORDINAT			13°20′ 4.4" - 87° 49′ 11.1"		DRILLER: Swissboring
DEF			23,20 SAM	PLIN	m j	BO	TOM SE	ALE	VEL:	-11.02 Chart Datum Level	{	DATE (START-FRESH): 10-11/10/01 LOGGED BY;
			1	i	Ī						Ì	
TYPE	NUMBER	15 cm	30 cm	45 cm		E O	GEOTE	CHI	IICA	LINVESTIGATION FOR LA UNION PROJECT, EL SALVADO	OR	Redelfo Alvarado
SAMPLE	SAMPLE	1 SET	2 SET	3 6ET	N VALUE	RECOVERED			Sw	SWISSDORING saboring Overseas Corporation Ltd.		INSPECTOR Dr. Pucal Yang
	,		CK C	ORE								
CORESIZE	RUN NUMBER	RUN LENGTH IN OR	RECOVERY am	% RECOVERY	ROD sm	GD11 %	دی س	OEFTH IN A	GRAPHIC LOG	DESCRIPTION		SPT TEST ROD
10	E-	*		<del> </del> -			8	<del>                                     </del>	8	Material as above		10 20 30 40 50 >50 N 20 40 60 80 ten
но	11	55	0	0	0	0	-		Ø			
SPT	8	8	12	17	29	45	-22.02	11	18		•	29
Ю	12	55	0	0	0	0	<u>.</u>	-	0			
SPT	9	11	13	19	32	45	-23.02	12	∀ઇ			32
НΩ	13	55	0	0	0	0		-	00			
SPT	10	14	17	21	38	45	-24.02	13	8	13.00 m		38
НΩ	14	55	0	0	0	0	-	-	3.6			
SPT	11	17	29	30	>50	45	-25.02	14	18	Gravel, dark brown, purniceous, low plasticity, hard consistency.		>50
							-	-	30.0			
Ю	15	100	50	50	0	0	-26.02	- 15	0.5			
							_ _		0			
HQ	16	100	85	85	0	0	-27.02	16	000			
но	17	55	55	100	0	0	· -		000			
SPI	12	16	28	47	>50	20	- -28.02	17	100			>50
							-	_	200			
HQ	18	100	70	70	0	0	-29.02	- 18	9			
SPT	13	16	32	45	>50	20	- -	1	8		ļ	>50
но	19	55	40	73	0	0	-30.02	19	0			
SPT	14	16	25	50	>50	20	-		100			>50
Ю	20	55	40	73	0	0	-31.02	- 20	S			

	<del></del>						Swienbor	ing Cv	w>00	Corp. Ltd. CEPA JICA Study Ye	
					. •		•	÷		LOG OF BORING	BOREHOLE: BS-4 sheet 3/3
CLI	ENT:	NIF	PON	KOE	1144	Γ				SOIL INVESTIGATION OFF SHORE	DRILL RIG: LY-34
CO	UNTI	RY:E	SAI	VAD	OR	COX	ORDINA	ES;		13*20*4.4* - 87* 49* 11.1*	DRILLER: Swissboring
DE	ग्राप्त		23.20		វា	BOT	TOM SE	A LE	VEL:	-11.02 Chart Datum Level	DATE (START - FINUSH): 10-11/10/01
TYPE	NUMBER	e can	30 cm	45 cm	G#	tto C	G	EOT	ECI	NICAL INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	LOGGED BY: Rodolfo Alvarado
SAMPLE	SAMPLE	1 BET	2 9ET	3 8ET	N VALUE	RECOVERED			Sw	SWISSDORING saboring Overeeas Corporation Ltd.	INSPECTOR Dr. Pucai Yang
		RO	CKC	ORE				г	·		
CORE SIZE	RUN NUMBER	RUNLENGTH IN	RECOVERY on	* RECOVERY	Rod om	* Rab	₩ <b>1</b> 00	DEPTH IN E	GRAPHIC LOG	DESCRIPTION	SPT TEST   RQD     10 20 30 40 50 >50 N 20 40 60 80 n
-							_	1	B		
अग	15	16	22	45	>50	20	-		Ø		>50
HQ	21	55	55	100	0	0	-32.02	21	8	21.2 m	
на	22	100	80	80	40	49	-33.02 -	7 7 22	300000	Brecciaceous tuff, weak, light to dark brown-gray, consists of subangular andestic and basatic clasts, up to 100 mm, medium so and medium hard rock, matrix is fine to medium grained, sand tuffaceous, moderate water content, non plastic, poorly cemented massive, water laid	40%
HQ	23	120	90	75	40	33	-34.02	23	000	23.20m END OF BORING	33%
								24 25 25 27 27 28 29 30			

			<b></b> ,				Swissbo	ring Overtees	Corp. Ltd. GEPA JNCA Storty Tea	·····		***************************************
									LOG OF BORING			
L										BOREHOLE	: BS sheet	-5 1/3
				_	el Ita				SOIL INVESTIGATION OFF SHORE	DRILL RIG: L		
			SAL				ORDINA		13*20* 2.6* - 87* 49* 9.3*	DRILLER:	Swissbo	oring
DEF			20.90 SAM		m G	BO	TOMSE	A LEVEL:	-10.92 Chart Datum Level	DATE (START		21-24/11/01
TYPE	NUMBER	16 cm	30 cm	45 cm		E	G	ЕОТЕСНІ	IICAL INVESTIGATION FOR LA UNION PROJECT, EL. SALVADOR	LOGGED BY:	dolfo Alva	rado
SAMPLE	SAMPLE	1 857	2 SET	3 857	N VALUE	RECOVERED		Swis	SWISSDOTING	INSPECTOR	Dr. F	<sup>⊃</sup> ucai Yang
		RO	CK C		·							
CORE BIZE	AUN NUMBER	RUNLENGTH IN	RECOVERY om	% RECOVERY	Rab cm	₩ RΩD	כסו ש	GAMPLE TYPE GAMPLE TYPE GRAPHIC LOG	DESCRIPTION	SPT TEST	_ [	RQD
		_						人黨				20 40 60 80 100
SPT	.1		0	0_	1	45	-	- 1	Clayey sift with fine sand traces, gray, very soft, high water content moderate plasticity, high dry strength, with some shell fragments.	<b>•</b>	1	
ΗΩ	1	55	0	0	0	0	-11.92	1				
SPT	2	1	Q.	Q	1	45	_					
HO	,	55	0	0	0	0	-12.92	<del>-</del>	•			
	_	-00	Ť			-	- 12.52 -	- - -	Shelioy #1.			
SPT	3	1	0	0	1	45	-13.92	<b>3\</b>		f I		
							-		· · · · · · · · · · · · · · · · · · ·			
HQ	3	85	0	G	0	0	-14.92	4				
							-	-   -				
SPT	4	1	1	1	2	45	-15.92	<b>5</b>	Idem material, very soft to soft consistency		2	
нα	4	40	o	0	0	0	-					
SPT	5	1	2	1	3	45	-16.92	<b>₩</b>			3	
НΩ	5	70	a	0	Q	q	-					
SPT	б	1	2	2	4	45	-17.92	┪	Idem material, soft to medium stiff consistency		4	
ΗQ	6	40	0	0	0	0	-					
SPT	7	2	3	3	6	45	-18,92	<b>₩</b>			6	
HQ	7	70	0	0	0	0		-				
SPT	8	2	3	4	7	45	-19.92	<b> </b>			7	
HQ	8	40	0	0	0	0	-					
SPT	9	4	5	6	11	45	-20.92	10	10.00 m		11	

							Swissho	ating C	)versea	s Corp. Etcl. CEPA JICA Study Year  LOG OF BORING	п
										200 0, 2011110	BOREHOLE: BS-5
						y			~		sheet 2/3
		HUP EB:YS				CO	ORDINAT	FS:		SOIL INVESTIGATION OFF SHORE  13°20' 2.6" - 87° 49' 9.3"	DRILL RIG: LY-34 DRILLER: Swissboring
DEF			20,90		m		TTOM SE		VEL:	-10.92 Chart Datum Level	DATE (START - FINSH): 21-24
	1 3	SOIL	SAM	PLIN	G I	1					LOGGED BY:
TYPE	NUMBER	16 om	30 am	45 om		Ę	GEOTE	CHI	NICA	LINVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	Rodolfo Alvarado
SAMFLE	SAMPLE	<b>5</b> ET	8ET	SET	N VALUE	RECOVERED			Swi	swissboring sationing Overanas Corporation Ltd.	INSPECTOR Dr. Pucai Yang
<del> </del>		RO	CK C	ORE		<b>Æ</b> .	ł ·				
		E Z						П	$\Box$		
CORE SIZE	RUN NUMBER	RUN LENGTH IN	RECOVERY om	% RECOVERY	ROD om	% Rap	CDL m	DEPTH IN R	BAMPLE TYPE GRAPHIC LOG	DESCRIPTION	SPT TEST
		9		21		45			8	Sandy and gravelly silt with traces of clay, beige, low plasticity, hard consistency.	
HQ	9	<b>5</b> 5	0	0	0	D	_ -21,92	11	Ď		
SPT	11	11	19	23	42	45	-	-		Idem material, some traces of fine gravel.	42
		55	0	0	0	0	-22.92	12	800		
					>50		-22.52	4	\ရှိ	Idem material, with coarse to fine gravel.	
					0		-23.92	- 13	8		>50
			\$°	100	Ť	Ů	-20.92	-	S		
ю	12	100	70	70	0	0	-24.92	14	ြိ		
Нα	13	70	70	100	0	0	-	-	W.	14.2 m	
SPT	13	14/50			>50	10	,	-		Tuff, very weak, reddish brown, consists of sandy silt, tuffaceous, poorly cemented, high water content, low plasticity to non plastic.	
	14	30	30	100	0	0_	-25.92	15	S S	water laid, poorly cemented	
							-				
SPT		100 38	5/50	100	>50	0 20	-26.92	16	10		<b>●</b> >50
							-	-	9		
HQ SPT		80 14/5(		100	0 >50	0 10	-27.92	17	10		>50
							-	-	Ó		
HQ	17	95		100		0	-28.92	18	8		
SPI	16	10/50	-		>50	10	1 _	] -	1		<b>●</b> >50
ΗΩ	18	90	90	100	0	0	-29.92	- 19	0		
SPT	17		10/50		>50		1		73		>50
							-	-	O	19.90 m	
но	19	100	100	100	0	0	-30.92	20	;;		
										:	•
										D - 17	

<u> </u>		<del>-</del> ,					Swissbo			Coip Ltd. CEPA JECA Study T									
										LOG OF BORING		•		*.					
				- 5								BOF	REH	OLE:	E	S-5	5		
CLI	EMI	NIF	PON	KOE	i Hd	1-				SOIL INVESTIGATION OFF SHORE		200			she	et_	3	<i>1</i> 3	
				.VAD		co	ORDINAT	ES;		13°20° 2.6" - 67° 49° 9.3"			LLEF	G: LY	Swis	sbor	ina		
DE	РПН		20,90		m	ВО	TOM SE	A LEV	ÆL:	-10.92 Chart Datrim Level		DAT	E (ST	ART - F				24/11	/01
	i	SOIL 	SAM 	PLIN 	<b>3</b>	1						FOO	SGE(	BY;					
TYPE	NUMBER	5	g	É		E	GEOTE	CHN	ĊΑ	INVESTIGATION FOR LA UNION PROJECT, EL SALVADO	ж		-	Roc	lolfo A	Mara	do		.
ì	Įż.	2	욹	   &	٠.	8			٠.		١		~						
SAMPLE	SAMPLE	SET	텛	867	VALUE	OVER				<b>swissboring</b>		INISF	ÆCT	OR .	ε	r. Pi	ucaiY	ang	
Ś	8	- 0	~	8	z	RECOV			Sw	asboring Overseas Corporation Ltd.				٠.					
<u> </u>	Т	RO §	CK C	ORE		1			· 		_					-	<u>.</u>		
		₹.	Æ				47	Į,			- [		-	.:		1			.
SIZE	AUN NUMBER	RUN LENOTH	/ERY	% AECOVERY	Ë	Ron Down		€ \}_ ≥ #	50°1 D	DESCRIPTION	١	Ts	SPT	TEST	1	1	F	(QD	$\neg$
CORE SIZE	25	SEN F	RECOVERY	7, AE	go.	*	E 1go	BAMPLET	GRAPHIC							آ ،	~ ~		_
Ĺ						1	Ĭ,	7	;; B	Tuffous rock, very weak, reddish brown, moderately cemented, hi	gh	10 2	للج ر	<u>-+U 50</u>	-3C	<u>" </u> 2	<b>3 4</b> 0	60 80	100
НО	20	on	an	100		0		-		water content, low plasticity to non plastic, water laid.						1	Ì		
Ľ	1~						-31.92	21	3	20.90 m END OF BORING									
	1		1				_	-{			1					١			1 1
		,					-	-					1 .			١			
				'		-		22											
							-	-								1			
İ			ĺ				-	_						-					
	1		. 1					23								-			1
								-			٠.								
								_											
				ţ			*.	24											
		. !						_			١					1			
						:		25											
								-											
								 26											
,							ļ	-											
		. !	. '					-			١					١	1		
	ļ							27								1			
							-	-								ĺ			
						',	-												
								28			ļ								
Ì		} .						-			1					1			
	]							-								-			
								29								ı			
								_											
								_			1								
L	ــــــــــــــــــــــــــــــــــــــ	ــــــــــــــــــــــــــــــــــــــ	<u> </u>	1	L	1	ـــــا	30			Į	1.	1			- }	1	, 1	{ }

							Swiester	ing Overse	us Corp. 1, led.	LOG	OF BO		***************************************	JICA Shidy To		HOLE:		
			-	KO					SOIL IN	IVESTIGA	TION OFF	SHORE		* *			sheet	1/
	РТН		20,40		m		TOM SE	TES: A LEVEL		8" - 87" 49" Chart Dalun					DRILLI DATE	ER: (START - FI	Swissbo esh;	ring 4-9
TYPE	MUMBER	Ę	8	PLIN 8	G	€	¢	EOTEC	HNICAL IN		ION FOR I	A UNION I	PROJEC	T, EL	LOGG	ED BY: Rodo	allo Alvai	ado
SAMPLE T	SAMPLE N	1 SET 15	2 967 30	3 BET 45	N VALUE	RECOVERED C		Sv	SW	issb	<b>Ori</b> i		•		INSPEC	CTOR	Dr. P	ucai Y
F		z.	CK C	ORE						<u> </u>			: '					· 
CORE 61ZE	RUN NUMBER	RUNLENGTH	RECOVERY O	* RECOVERY	RQD cm	ROD	ج	BLAMPLE TYPE STAMPHIC LOG			DESCR	IPTION			SP	TEST		R
	1	-	ě O	0	1	* 45	700			enish gray, very soft to		ontent, high ncy.	plasticity,	moderate de	10 20 3	0 40 50	>50 N	20 40
					,		-1 <del>2.22</del>	1			-							
							- -		Shelby #1	l.								
ΗQ	<u> </u> ,	205	53	26	0	0	-13.22	2					•					
						1		1	Shelby #2 From 3.0	to 5.0 m								
SP)	2	2	2	2	4	45	-14 <u>-22</u> -	3		cy, exhibits		t, moderate xxarae graine					4	
							-15.22					٠	•					
Sr,	]3	1	3	6	9	45	- -	-									8	
но	Г		0	0	0	0	-16.22 -	5 \ Q	5.00 m Gravel, w	reak, consis	ats of abund	ent angular	to suben	gular basaki				
SPI		.20 65	0	0	>50 0	45	- -17 <i>.</i> 22	1000		S WERS CHOICES		to 7mm in I	engui, mi	acamats (March 2			>50	
SPI	Γ	16	29	31	>50	45	_	1/8		2 °							>50	
Ю	1	65	0	0	0	0	-18.22	7 2						•				
SPI	6_			10/50	>50	15	-	18									>50	
HQ SP1	_	85 10/50		٥	∂ >50	0 10	-19.22 -										>50	
но	6	65	0	0	0	0	-20.22		7.7					•				
							-	100										
но	7	100	35	35	0	0	-21.22	10 00						: 				
			*													·		

<u> </u>							Swissbor	ing O	<del></del>	COPP. LEEL CEPA JACA STORY Yes		··-			<del></del>	
i										LOG OF BORING						
ł										•	BORE	<del>I</del> OL	E:	BS	-6	
													5	heet	2/	2
<u> </u>		NEP								SOIL INVESTIGATION OFF SHORE	DRILL F	RIG: I	LY-34			······································
COL	JNT	RY:E	. SA	.VAC	OR	CO	ORDINAT	ES:		13*20* 0.8" - 87* 49* 8.0"	DRILLE	R:	S	wissb	oring	
DEF	Ή		20.40	)	m	BO	TOM SE	ALE	VEL	-11.22 Chart Datum Level	DATE (S	TAK	- FINE	H):	4-9/	10/01
ŀ,	. :	SOU.	SALL	PLIN	G						LOGGE	D BY	<i>(</i> :			····
	æ	ا ۔ ا	ا ۔ ا	_	1		6	EO	TEC	INICAL INVESTIGATION FOR LA UNION PROJECT, EL						
TYPE	NUMBER	5	8	ક		£				SALVADOR	-	F	Rodolf	o Alva	arado	
٦	ž	\$2	30	94		} (							<u> </u>			<u></u>
[ بيا	24	1 1			파	RECOVERED				ourice horizon						
GAMPLE	SAMPLE	SET	SET	BET	VALUE	8				swissb <b>o</b> ring	INSPECT	ror		Dr.	Pucai Ya	ing
3	\$	8	2 8		ź	Ä			Sw	ssboring Overseas Corporation Ltd.						
<u> </u>		RÓ	CKC	ORE		-										
F-7									T							<del></del>
1	~	₹ .	E	≿	Ì '	1		1	اً _ أ	·					1	
贈	RUN NUMBER	RUN LENGTH Cm	. ₹	RECOVERY	_ ا			DEPTH IN m	GRAPHIC LOG	DESCRIPTION						
8	į		Ž	ដ្ឋ	£	å.	E	₹ 1	밹皇		SPT	TES	<u> </u>		L R	DD D
CORE BIZE	3	2 .	RECOVERY	±	ĝ		G	8	3 3							
۳	۳	- 3	<del></del> -	<u> </u>	<del>  -</del> -	-	-		12		10 20 30	40	50 ×:	<u> </u>	20 40	60 80 sap
	i	}					-	╽┤	12							
			1		İ		-	-	8			}		İ		
امرا	١.		ا ا	0	٦		~~~	-	60	·		1				
HO		100			0	0	-22-22	11	16							1
SPT	8	50	10/50	ļ	>50	20	-	-	ЮŁ					>50		
1	ļ				Į		-		0							
					1			-	18	•						
HQ				0	<u>.</u>	0	-23.22	12	8			1	- } }	1	1 1	} {
SET	₽.	10/50			>50	10	_	-	Q.				9	>50	1   1	]
			1	1	1		_	<b> </b>	(3)				1		}	1 1
1			l .				_	▎▗▏	6					1		1 1
HQ	10	90	0	0	0	0	-24.22	13	(3)	From 13.0 to 16.5 m		ļį	-			
SPT	10	10/50	<u>.                                    </u>		>50	10	_	_	OF				•	>50		
HQ	11	45	45	100	0	0	_	4	ାର	Gravel, week, consists of abundant angular to subangular basaltic				•		1 1
SPT	11	14/50		ļ	>50	10	_	1	시시	and andesitic blocks ranging in size from 5mm to 250mm in length, lines was not recovered		! !	•	>50		
					1		-25.22	14	<b>F</b>	LEED AND ING CONTACTOR						
_	-	70	0	0	0	0		4	$\mathcal{O}$			i	11	1		
SPT	12	15/50			>50	12	_		<u>بل</u> اء ا	÷			•	>50		
							_		O							
						( !	-26.22	15	00			1	1	į :	ļįį	
HQ	13	100	30	30	0	0	_						[			
SET	13	14/50			>50	10			اسلا			Į i		>50	<b>!</b>	
		li			1	l i	_	_	10			[ ]				
							-27.22	16	٦	·						
но	14	100	35	35	0	0	_	IJ	6				ij	į l		
		12/50			>50	10		]	JOF JOF	16.50 m			4	>50		
-									Ø					_		
HQ	15	75	20	27	0	0	-28.22	17			1					
	,								0	Sandy silt with clay, orange brown, high water content, moderate		[ ]		-		
ŀl								Π	o.	plasticity, high dry strength, contains few and scattered rock				i		
							_	1	0	fragments up to 8mm				1		
НΩ	16	100	65	65	0	اها	-29.22	18						[		
HQ	_	_		_	0	0			0							
	<b></b>			<u> </u>	<u> </u>	<b>†</b>	7		0	18.40 m				1		
	1						-		o				l			
но	18	75	30	40	n	0	-30.22	19	ได้	Brecciaceous tuff, weak, dark gray-brown, consists of		i		i		
	٣		<u> </u>	۳	Ť	۳		'	Ó	volcanic rock clasts, ranging in size from 4mm to				1		
			ŀ				-		000	50mm, medium hard rock, matrix is sandy tuffaceous,		[ ]				
		]		1	İ		-	-	O.	poorly cemented, water laid, few parts exhibit thin				i		
но	10	100	25	25	0	0	-31.22	7	<b>P</b> ::	роспу септинен, наштими, кан рака ехнел (ЛП		1				
<u>                                     </u>	۱.,		۳	<del> </del> —	۳	۳	~122	"	• •							]
<sub>HO</sub>	20	40	an l	100		0	-	-	6	90.40 m Clath Or none in				ì		
1.74	-20	1.70	1.70		<u> </u>		٠	بلحا		20.40 m END OF BORING		í		j		<u>! !</u>

Γ						_,	Seissbo	ring Ov	MS68	Corp. Ltd. CEPA JICA Shudy Tee	าก	······································			
İ										LOG OF BORING					
											BOREH	OLE:	BS-	7	-
<u></u>	C) IT.	- NUM		VAF		r				and the second second	r		eet	1/2	
		YY:EL				~~	ORDINAT	EC.	<u> </u>	SOIL INVESTIGATION OFF SHORE  13°19' 59.7" - B7° 49' 6.5"	DRILLER DRILLER	G: LY-34			
<b>—</b>	ग्रम		20.30		m				ÆI ·	-10.82 Chart Datum Level	<del> </del>	C. SWI WART - FINISHI:	ssboi		4/10/01
		SOIL	~		~					10.02	LOGGED				51001
۳	NUMBER	E	E C	ŧ			GEOTE	CHN	CA1	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	1	Rodolfo	Alvan	ado	
7798	[₹	ž,	8	45		E .									
8AMPLE	SAMPLE	BET	SET	6ET	N VALUE	RECOVERED			Siuri	SWISSBORING asboring Overseas Corporation Ltd.	INSPECT	OR	Dr. P	ucai Ya	ng
-	نــــا	RO	CK C	ORE	L						1				
<b> </b>		E			<u> </u>	Γ			7		<del> </del>		γ		
CORESIZE	RUN NUMBER	RUN LENGTH IN	RECOVERY om	RECOVERY	шэ	ROD	٤	BEPTH IN M SAMPLE TYPE	GRAPHIC LOG	DESCRIPTION	ापट	TEST		RC	)D
ğ	5	Ş	REC	38	Rab	*	100	430	GRA GRA		10 20 30	40 50 >50	N	20,40 ε	O 80 196
HQ	1	55	O	0	0	0	-	-		Clay, greenish gray, very soft consistency, high water content, high plasticity, moderate dry strength.					
SPI	1	1	a	۵	1	45	-11.82	1					1		
HO	2	30	0	0	0	0		-	纝						
							-12.82	2		Shelby #1.					
HQ	3	55	0	0	0	0	_	-							
SPT	2	1	0	o	1	45	-13.82	┧\							
Ю			0	0	0	0	10.02						,		
┝					-		_	1	Ø						
					.		14.82	4		Shelby #2.					
НО	5	55	0	0	0	0	_	_							
SPI	3	1	0	1	1	45	-15.82	-\ 5\					1		
HQ	6	55	0	0	0	0		-							
SPI		1	0	1	1	45	- - -16.82	- -		•					
	1										7 1		1		
НО	7	55	0	0	0	0		_							
SPT	5	1	1_	1	2	45	-17.82	1					2		
на	В	55	0	0	0	0	-	-							
SPI	6	1	2	3	5	45	_ -18.82	- 1					5		
на	9	55	0	0	0	0	1				$  \setminus  $				
SPT	7	3	4	7	11	45	-19.82	<b>₽</b> \		9.00 m			11		
НО	10	55	D	o	0	0			00						
SPI	8	22	15	18	33	45	-20.82	10	0				33		

I			····				Smircha		·		Corp. Ltd. CEPA JICA Study Tax									
							34E33E83	202	C/VIII	Poleci	LOG OF BORING	m								
												B	ORE	EHC	DLE	:	BS	-7		
CLI	ΞΝΤ:	NIP	PON	KOE	l Itd	r			٠		SOIL INVESTIGATION OFF SHORE	Th	RILL		2.13	~~~~	heet		2/2	
COL	JNTF	Y:EL	SAL	VAD	OR	co	ORDINAT	ES:			13°19′ 59.7" - 87° 49′ 6.6"	+-	RILL				wissb	oring		
DEF			20.30		m	BO.	ITOM SE	ALI	EVE	L:	-10,82 Chart Datum Level		ATE						-14/10	<i>)</i> /01
	1 1	SOIL	SAM	PUN 	G 	ı						L	OGG	ED	BY:					
TYPE	NUMBER	E C	E.	E :		Ë	GEOTE	СН	NIC	AL.	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR				R	odolfo	o Alva	irado		
£ .	ž	16	8	\$2	ĺ	i						-					:			
SAMPLE	PLE	<b>J</b> .	lt:	t:	VALUE	RECOVERED					swissboring	IN	SPE	erre	סער		~	Pucai	Vana	ı
SAL	SAMP	1 SET	2 SET	3 857	2	RECO			8	wis	asboring Overseas Corporation Ltd.	"•	0, 1		<i>.</i>		LA.	rucai	ang	İ
		RO	CKC	ORE	L	<u> </u>														
Ì		A ST	F						П											-
3.2	18ER	LENGTH	\ }	VERY	_			E	TYPE	8	DESCRIPTION			·		_				_
CORE SIZE	RUN NUMBER		RECOVERY	RECOV	5	8	ε	DEFTHING	APLE.	GRAPHIC LOG	DESCRIPTION		SF	ग 1	EST			<u>                                     </u>	RCD	ا لـــ
8	5	NO.	Ä	\$	ğ	*	6	ä	Š	8		10	20	30	40 5	50 >5	C N	20 4	60 8	0 100
НО	11	55 -	55	100		0		-	,	۱,	Gravel, weak, consists of abundant angular to subangular basaltic and	Γ		į	Ĭ			1		1
SPI	9	4/50	<u> </u>	100	>50	<del></del>	-	-	Ŋ	8	anciestic fragments, ranging in size up to 100mm in length, matrix			ĺ	ľ	V	  >50			
Ю	12	45	45	100	3	0	-21.82	11	8	5	was not recovered		: !		1	- 10	30			
ш	13.	55		100				-	6	5					-	1	-			!
HQ SPI	13 10	13/50		100	0 ≥50	13	-	7	7	စ္ကု				İ		1				
						Γ	-22.82	12	0		Gravel 44% to 100%		1	!	}	10	;> <b>50</b>	•	1 1	
			l i				_	-		ଥ୍ୟ	Fines 0% to 66%		. !	į	1	1	. [			
HQ:		100 14/50		55	0 >50	10		-	Į.	ρĮ				Ì		1				
					-30	1	-23.82	13	18					į		•	>50			
								-		ğ		1		į	-	1				
HQ	15	100	55	55	0	0	-			8				1			1	1		
SPT	12	12/50	, ;		>50	12	-24.82	14	78	3		:		•		1	>50			
							İ _	_					• !		1	1	-50			
Ю	16	100	100	100	0	0		~	ŀ	9				į		1				
SPT	13	 14/50			>50	12	-25.82	15	Įβ	P				ì	ļ					
								_	ľ	)			;	1	1	•	>50			
Ю	17	100	100	100	0	0		-	ß	9	15.50 m					4				
SPT	14	 13/50			>50	13	-26,82	16	J		Gravelly clay, very weak, reddish brown, consists of sandy sit.			*				:		
					- 50		10.02		13	8	truffaceous, poorly cemented, high water content, low plasticity to non	'	1	1	į	ļ	;> <b>50</b>			
HQ	18	100	100	100	24	24		_	L	. II	plastic, water laid, poorly cemented		. !	!	-	į	1			
HO	19	50	50	100	n	0	- -27.82	- 17	ģ	3				-	į		ļ			
	Ť	-	-	۰۰۰	۳	۲Ť	-27.02	[ ]		껳					1					
HQ	20	50	50	100	0	0		-	į į				: : 1		;		į	1		
HO	21	50	×ν	100	,	0	-28.82	-		Ŏ			Í		İ					
۳	-	5.	-~	,00	۲	۲,	-20.02	18	ľ	3	18.30 m			-		1				
			l					_	Hò	Ì	Truft, very weak, light to dark brown, consists of sity sand tuffaceous,			:			•			
750	27	100	100	4~~	_		200	_	11	6	moderate water content, low plasticity, high dry strength, contains some weathered rock up to 70mm	1		į		1				
F		100	100	100	٠-	0	-29.82	19			19.31 m			-		ļ				
				į			_	[ _	H	ą	Brecciaceous fulf - gravel (?), weak, consists of andesitic and basaltic		į	-	Ì	ĺ	ĺ		-	
			Ì	l				-		3	blocks up to 120mm in length, medium to hard rock, matrix is sandy tuffaceous, very poorly cemented	1	ij	1			İ			
HO	22	100	100	100	,		-30.82	20						į		ļ				
	23	100		,00	10	1	اا	L=	LE.	<u>-,4</u>	20.30 m END OF BORING		. í	i	. !	1	<u> </u>	<u> </u>	: :	

	·	*****					Swinsho	ring Oversea	Corp. Ltd. CEPA .MCA Newly Tea	**************************************		
									LOG OF BORING			
					•					BOREHOLE:	BS-8	
CUI	ENT	: Ni	PPOI	KO	EI Itd	T	<del></del>	<del></del>	SOIL INVESTIGATION OFF SHORE	DRILL RIG: LY-3	sheet 1/3 4	
COL	JNT	RY:E	L SA	LVAI	DOR	CO	ORDINA	TES:	13*19* 57.9* - 87* 49* 4.8*		wisaboring	<del></del>
DEF			23.20		m	80	TOM SE	A LEVEL:	-10.17 Chart Datum Level	DATE (START - FIN	ISH): 30/9-2/1	10/01
. 1	1 1	<b>SOIL</b> I	SAM	ipilin I	ig.	1	_			LOGGED BY:		
TYPE	NUMBER	\$5 CH	30 cm	£ 5		en c	G	EOTECH	NICAL INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	Rodol	fo Alvarado	
SAMPLE	SAMPLE	3ET	2 SET	3 867	N VALUE	RECOVERED		Swi	SWISSDORING suboring Overseas Corporation Ltd.	INSPECTOR	Dr. Pucai Yang	ı
	<u> </u>	RO	CKC	L		Т.						
		<u>z</u>	E		Π							
CORE SIZE	RUN NUMBER	RUN LENGTH I	RECOVERY CA	RECOVERY	Rab em	Rab	£	DEPTH IN M BAUDLE TYPE GRAPHIC LOG	DESCRIPTION	SPT TEST	ROD	
8_	ř	æ 5	罡	<i>*</i>	ž	*	형	3 6 8		10 20 30 40 50 >	5C N 20 40 60 E	90 100
нα	1	55	0	G	0	0			Clayey silt, greenish gray, very soft consistency, high water content moderate plasticity, moderate to high dry strength, exhibits shell			
SPT	1	1	0	0	1	45	-11.17	1	fragments.		11	}
							- - -12.17	- - 2				
HQ	2	165	0	o	0	o	-					
							-13.17	3	Sheiby ≇1.	-		
SPT	2	,	0	0	,	45	•	1			1	
	:						-14.17 - -	4	Sheliby #2.			
HQ	3	115	0	0	0	0	-15.17	5	•			ļ
SPŢ	3	1	0	0	,	45	-	1			1	
HQ	4	55	0	0	0	0	-16.17	6				ĺ
									Shelby #3.			
SPT	4	1	٥	1	1	45	-17.17	1	From 6.90 to 9.00 mm		1	ļ
									Clayer sit with traces of fine-grained sand, dark brown with gray stains, exhibits decomposed root debris, moderate plasticity, very soft consistency, organic soil.			
нο	5	85	0	0	0	0	-18.17					
SPT	5	1	0	1	1	45	-	1			1	
HQ	6	55	0	0	ō	0	-19.17	9	from 9.00 to 10.00 m			
SPT	в	2	2	1	3	45	-	1	Clayer sitt with traces of fine-grained sand, gray, moderate plasticity, soft consistency.		3	j
HQ	7	55	o	0	0	٥	-20.17	10	10.0 m	$ \mathcal{N} $		

					~~		Swission	ring (	)YOFSE	es Corp. Ltd. CEPA JACA Study Tom	m	<u> </u>
										LOG OF BORING	BOREHOLE:	BS-8
												sheet 2/3
			PON SAL			~~	ORDINAT	EP.	·	SOIL INVESTIGATION OFF SHORE  13°19°57.9" - 87° 49° 4.8"	DRILL RIG: LY-3-	
DEF			23,20		m		TOM SE		VEL:		DRILLER: S DATE (START - FINS	Swissboring SH: 30/9-2/10/0
		SOIL	SAM	PLIN	G				**		LOGGED BY:	5 500-2710/0
TYPE	NUMBER	15 mp	30 om	mo 84		6	GEOTE	СН	NICA	L INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	Rodol	fo Alvarado
SAMPLE	SAMPLE	1 SET	2 SET	3 SET	N VÁLUE	RECOVERED			Sw	SWISSDORING issboring Overseas Corporation Ltd.	INSPECTOR	Dr. Pucai Yang
		RO	CK C	ORE								•
3Z	NUMBER	LENGTH IN on	RY om	RECOVERY	#S	a		E	779E	DESCRIPTION		
CORE SIZE	RUN NO	RUN LEP	RECOVERY	% REC	200	% GQA	m 100	N: H1420	SAMPLE TY		SPT TEST	FCN 20 40 60 80 1
SPT	7	42	24	33	>50	40	-		\ <u>\$</u>	Stry gravet, medium-to fine-grained sand, gravish beige, abundan		>50
HQ	8	50	0	0	0	0	-21.17	11	P	small to medium-sized gravel, very dense		
SPT	8	13	14	22	36	35	-	-	\@ \\@		4	36
HQ	9	55	0	0	0	0	-22.17	12	900			
SPT	9	44	46	48	>50	35		-	\\\°		\	>50
ΗΩ	10	55	0	0	0	0	-23,17	13	80			
SPT	10	36	50	52	>50	28	-	-	100			>50
ΗΩ	11	55	0	0	0	0	-24.17	14	\ <del>8</del> 8	from 14.0 to 17.0 m  Coarse-to medium-grained sand with traces of clay, yellowsh beige	/	
SPT	11	35	30	14	44	8			\0 \0	with othre yellow stains, low plasticity, medium dense.		44
HQ	12	55	0	0	0	0	-25.17	15	/ ତ			
SPT			9	6	15	30	-	_   	0		4	15
HQ			0	0	0	0	-26.17 -	16 -	\ <u>&amp;</u>			
SPT			5	6	11	30	-	-   <u>-</u> -	9	47.00	•	11
HQ SPT		55		45 16	29	0 45	-27.17 -	17	\ <u>.</u> \%	17.00 m		
		55		55	29	45	-28,17	18	0			29
		16			31			j	\ •	Coarse to medium-grained, weathered sand with sitt and traces or clay, brown, exhibits medium to small gravel, low plasticity, dense		31
		55	20		0	0	-29,17	- 19	ő	sand	•	3
SPT	16	10	17	18	35	32			\ <u>0</u>			35
НΩ	17	55	20	36	0	0	_ -30.17	_ 20				

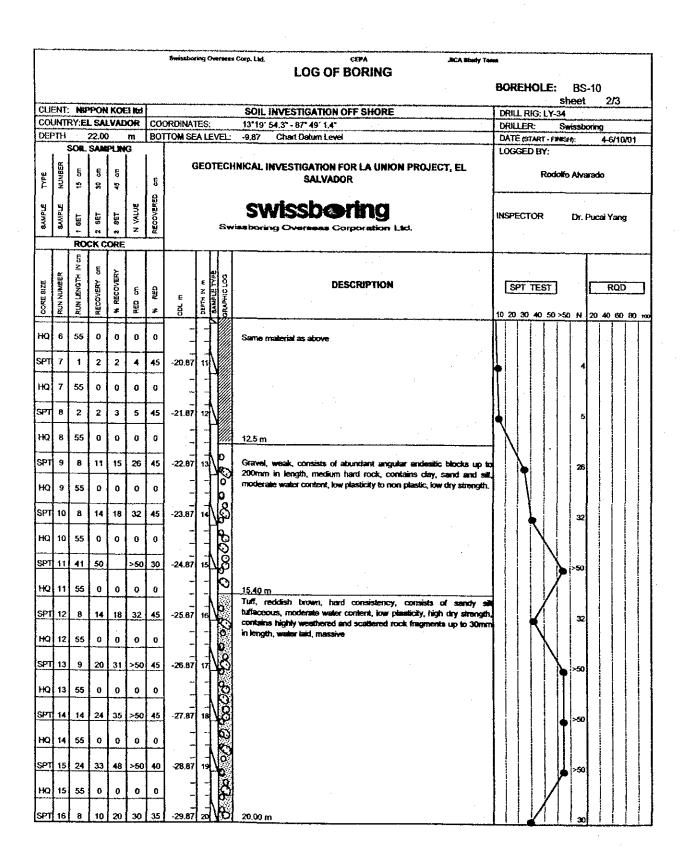
Γ_			·			-	Swimbo	ring O	Verses	s Corp. Ltd.	Patricipal parameters of	ĊE	PA		JICA Study You			*****	<del></del>		· <del>,</del>
	•										LOG	OF BC									
																BOF	REHO		BS	-	_
CLI	ENT	: NH	PPON	KO	bh E	·				SOIL II	NVESTIGAT	SON OFF	SHORE			LUBII	⊥ R <del>i</del> G		heet	3	<u>r3</u>
		RY:E					ORDINA	TES:			7.9" - 87" 49"		OHORE	· · · · · · · · · · · · · · · · · · ·		<del></del>	LER:		MISSO	ening Opring	
OE	गाम		23.20		m	ВО.	TOM SE	ALE	VEL:	-10.17	Chart Datum	Level				DAT	E (STAF	T-FINE	i-1):	30/	9-2/10/01
	ŧ .	<b>SOIL</b> I	SAM	PLIN I	Gi.	t										LOG	GED E	BY:			
34FE	NUMBER	16 cm	8	45 ch		Ę	G	EOT	ECH	INICAL IN	ivestigati Sal	ION FOR VADOR	LA UNION	PROJEC	T, EL			Rodolf	o Alva	rado	
8AMPLE	SAMPLE	1 8ET	2 BET	3 8ET	N VALUE	RECOVERED			Swi	. –	dezin			ì.		INSP	ECTO	R	Dr. I	Pucai Y	'ang
				ORE					_		- 	•									
CORE BIZE	N NUMBER	RUN LENGTH IN	RECOVERY CM	RECOVERY	ROD cm	ROD	æ	DEPTH IN B	GRAPHIC LOG			DESC	RIPTION		,	[5	PT TE	ST]		<u> </u>	IQD
8	₩.	물통	<u> </u>	*	ě.	*	형	l i	13		·					10 20	30 4	50 >5	CN	20 40	60 80 to
									800											ļ	
HQ	18	100	40	40	0	0	-31,17 	21	30 C	21.20 m			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·						 	
HQ	19	100	27	27	0	o	- -32.17	22	000000	consists 130mm,	ceous tuff, di of andesitic a contains few	and basalti blocks up	c clasts rangi to 200mm in	ing in size length, m	from 5mm to latrix is sandy						
							-		Q 0 p	bedding	us, moderate	iy certeriz	su, (Neumair) s	KAL, WARRIN	anu, messive						
HQ	20	120	70	58	o	c	-33.17	23	o C		2	3.20 m E	ND OF BORI	NG	· · · · · · · · · · · · · · · · · · ·			-			
						1	-														
								24			·										
								25		 											
										·											
								26			•										
								- - - 27			•										
								27													
					,			28			•	-									
								29													
								30													

						<del></del>	Swissba	ring Oversees	Corp. Usi.	·		CI	<del></del>	<del></del>	·	JICA Stud	Tanan		· · · · · · · · · · · · · · · · · · ·			· 	······································
										L	OG (		RING				, , ,						
																	1	BOR	ЕНО		BS	-	<b>∽</b>
		NIF							SOIL IN	VEST	IGATI	ON OF	SHORE		······			DRIL	L RIG	: LY-3	heet 4		3
DEF		RYE	22.00			<del></del>	ORDINA		13'19'56			<del></del>						DRIL	LER:		wissb	<del></del>	-
UL		SOIL	-		m G	LBO	TOM SE	A LEVEL:	-10.17	Chart L	)atum l	.cvci					$\dashv$		GED E	KF-FIN	SH):	9-1	0/10/01
TYPE	NUMBER	15 cm	30 cm	45 cm		cm	G	EOTECH	NICAL IN			N FOR	LA UNK	ON PR	OJEC	T, EL				Rodol	to Alva	rado	
SAMPLE	SAMPLE	1 867	2 SET	3 SET	N VALUE	RECOVERED		Swit	WZ				_	.id.				INSPE	есто	R	Dr. I	Pucai Y	ang
		RO	CKC	ORE		·		<del></del>											•				
CORE SIZE	RUN NUMBER	RUN LENGTH IN	RECOVERY om	RECOVERY	RQD cm	ROD	E.	DEPTH IN IN SAMPLE TYPE GRAPHIC LOG		.*		DESC	RIPTION					SI	PT TE	ST		R	QD
8	5	₹ §	RE	*	S.	æ	<u>8</u>	SAMP BAMP GRAPH	Char orac	mieb e	my hin	h under	content, h	ab ala	£-4.			10 20	30 40	0 50 >	SC N	20 40	60 80 100
НQ	1	130	0	0	0	C	- - -11.17	- - 1	strength,				coureur 1	ign pias	SEICITY, I	moderate	Qry						
TES	1	1	0	. 0	1	45	 -12.17 	2	Shelby #1	<b>I.</b>											1		
HQ	2	130	0	0	0	0	-13.17 -	3			-										-		
SPT	2	1	0	0	1	45	-14.17 -14.17		Shelby #2	2.		·									1		
HQ	3	130	0	0	0	0	-15.17 -	5									The second second second second						
SPT	3	1	0	0	1	45	-18.17 	- δ					•					1					
HQ	4	130	0	0	0	0	- -17.17 -	7															
SPT	A		4		6	A.C.	- -18.17 	8												***************************************			
271	4	1	_1_	1	2	45											H	•			2		
нα	5	130	0	0	0	0	-19.17 -	9													***************************************		
SPT	5	1	1		2	40	 -20.17	10	10.00 m	<del></del>	<del></del>										2		

f					···	<del></del> •	Swisste	ring Q	YW 584	Corp. Ltd. CEPA JICA Study Year					<del></del>	7
								•		LOG OF BORING						
											BORE	HOL.		BS-	-	Ì
			TON							SOIL INVESTIGATION OFF SHORE	DRILL.	RIG:		eet	2/3	$\dashv$
		-	SAL			<del></del>	ORDINAT			13°19′ 56.1" - 87° 49′ 3.1"	DRILLI			issbo	xing	
DEF			22.00 SAM		m G	BO	TTOM SE	A Lt.	VEL.:	-10.17 Chart Datum Level	LOGGI		- F845H)	:	9-10/10/01	4
	1 1			•							[					
TYPE	NUMBER	16 टक्त	36 om	\$ <del>\$</del>	ļ	Ę	GEOTE	:GHN	IICA	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR		4	Rodolfo	Alva	rado .	ļ
SAMPLE	SAMPLE	1 SET	2 SET	3 SET	N VALUE	RECOVERED			Swi	SWISSDOTING Asboring Overseas Corporation Ltd.	INSPEC	CTOR		Dr. I	Pucai Yang	
			CK C	ORE	·						<u></u>					١
CORESIZE	RUN NUMBER	RUN LENGTH IN om	RECOVERY om	% RECOVERY	Rab om	% ROD	ول # دور #	E NI HERBO	GRAPHIC LOG	DESCRIPTION		T TES		N	ROD	)
							_	1	Ø		10 20 3	30 40	50 >5C		20 40 60 80	100
SPT	6	1_	1	1	2	45	-	-	W	Clay, black, soft consistency, high water content, high plasticity, moderate to high dry strength, organic smell, consists of almost pure				2		
SPT	7	1	2	2	4	45	-21.17	11/	W	clay with variable silt and traces of fine sand				4		
НΩ	6	55	55	100	0	0				11.50 m						
SPT	8	3	5	6	11	40	-22.17	12				ļ		11		
HQ	7	55	55	100	g	0	-	-	Ş	Gravel, weak, consists of abundant angular basattic and andesitic rock		1				j
SPT	9	30	5/50	-00	×50	20	_	儿	O	fragments up to 150mm in length, medium hard rock, slightly to		`	1	>50		
							-23.17	13	00	moderate weathered, contains clay, sand, and silt, moderate water content, non plastic, low dry strength						-
HQ	8	80	80	100	0	0	_	_	Ď,	•						
SPT	10 9	14/50		56	×50	13	24.43	-	Ď	•			•	>50		1
HQ	9	45	25	30	0	U	-24.17	14	0			ĺ				
ent	11	15/50			\ <b>E</b> O	46	-	-[	167 100				<u> </u>			
SF I	11	i o/oc	,		>50	10	25.17	15	00			1	Ĭ	>50		
L_C	tn.	55	55	100	o	0	-	-	8	45.50 m						
110		,,;	33	100	- u	-		7	ر ا	15.50 m Tuff, reddish brown, weak clayey silt grained, consistency, moderate						
SPT	12	19	34	42	>50	30	-26.17	16	8	water content, low to moderate plasticity, high dry strength, contains some angular and weathered rock fragments up to 70mm in length			•	>50		
HQ	11	55	0	0	0	0		-	8							
SPT	13	9	20	31	>50	40	-27.17	17	18					>50		
нα	12	55	0	0	0	0	-	-	000							
SPT	14	12	17	20	37	45	-28,17	18				4	/	37		
но	13	55	0	0	0	0	- →	-	Q.			1				
SPT	15	10	20	30	50	40	-29.17	19	000				1	50		ļ
SPT	16	14/50			>50	10	- - 30 17	- - 20	0	20.00 m			I	>50		

		-	<del></del>		······		Swissho	ring O		Corp. Ltd. CEPA JICA Study					:			<b></b>
							•			LOG OF BORING								
											E	3OF	EH	OLE:	89 sheel		212	
		: NIF								SOIL INVESTIGATION OFF SHORE	Т	DRII	LR	iG: LY-3	<del>~~~~~~</del>		3/3	-
	PTH	RY:E	22.00				ORDINAT		100	13*19* 56.1* - 87* 49* 3.1*		DRI			Swissl			
VLI		SOIL			m G	ВО	TOM SE	V LE	VEL	-10.17 Chart Datum Level	_			ART-FIN	ISH):		9-10/1	0/01
	l Ha	E E	6	cut.			G	EOT	ECI	NICAL INVESTIGATION FOR LA UNION PROJECT, EL	1		CL					
TYPE	NUMBER	55	8	<b>15</b>		g				SALVADOR	L			Rodo	ifo Alv	arado		٠.
SAMPLE	BAMPLE	8ET	8E1	BET	VALUE	RECOVERED		-		swissbering		NSP	ECT	OR	Dr.	Puca	u Yan	9
	Ľ.	RO	CK C	ORE	Z	2			- SW	isboring Oversess Corporation Ltd.								
	Γ	z						П	Γ		+			~				<del></del>
띮	JA PER	RUN LENGTH :	놊	RECOVERY	_			₽ 6	8	DESCRIPTION								
CORE BIZE	Ž	2 2 2	RECOVERY		ROD cm	aog.	E	OEPTH IN THE	GRAPHIC LOG	DESCRIPTION		S	PT	TEST		<b> </b>	RQD	
៥	12	₹ 8	2	*	¥	*	8	8	8		1	0 20	30	40 50 >	-5C N	20	40 60	80 K
HQ	14	140	140	100	15	11	-31.17	21	0.00 p.6	Brecciaceous fuff, dark gray-brown with some beige clasts, wer consists of basaltic and andesitic clasts ranging in size from 5mm 300mm, subangular to sub rounded, slightly to moderate weathered, matrix is sandy fuffaceous, poorly cemented, water la massive.	to						11%	
	┝	•		-					0	TROSTE		!				Щ	,	
HQ	15	90	90	100	26	29	-32_17	22	0	22.00m END OF BORING						1 Indddyn	29	2%
		.     .				1	_				1	.					1	
							-	23							İ			
					. 1		_	23	l	en en en en en en en en en en en en en e				.				
					i						-	į						
	l					٠.	-	24				Ì						
					,			_			1				İ		j	
								-				į			-			
								25			۱.							
								-				<u>!</u>						
								-			1				-			
								26			١	ļ			İ			
								+				Ì			İ			
						.		27										
								27				I			ļ			
	1							-								1		
											1							
								28				!						
	1														1			
	1																	
					Ì			29				!						
												Ī						
			•									!						
	<u> </u>				Ĺ			30	1_				1		1	Ιi	1	

r	·										
							Sairsboring (	VM 541	IS COOP, LIDE CEPA INCA SUICH TO LOG OF BORING	en)	
									EGO OF BOTTHEO	BOREHOLE:	BS-10
<u></u>										<del></del>	heet 1/3
				VAD		~	ORDINATES:	·	SOIL INVESTIGATION OFF SHORE  13°19' 54.3" - 87° 49' 1.4"	DRILL RIG: LY-34	
	PTH		22,00		m		TOM SEA LE	VEL:	<del></del>	DRILLER: S DATE (START-FINE)	Wissboring  4-6/10/01
				PLIN	·····					LOGGED BY:	
1	<u>_</u>									*	
TYPE	NUMBER	e g	E .	ě		5	GEOTECHI	WCA!	L INVESTIGATION FOR LA UNION PROJECT, EL SALVADO	R . Rodol	fo Alvarado
1		=	æ	4		B					
SAMPLE	SAMPLE	SET	SET	SET	VALUE	RECOVER	:		<b>swissboring</b>	INSPECTOR	Dr. Pucai Yang
28	á	- -	2 5	3 5	2	REC		S	wiseboring Overseas Corporation Ltd.		·
			CK C	ORE						1	
		2	E	<b>→</b>							
ZE	MBER	Ž.		RECOVERY	F	۵	E 2	100	DESCRIPTION	SPT TEST	RQD
CORE SIZE	RUN NUMBER	RUN LENGTH	RECOVERY		RED cm	RED		GRAPHIC LOG		[37]	1,045
18	5	₹	£.	*	#	. 25	COL	8 8	5-04-06	10 20 30 40 50 >	5C N 20 40 60 80 100
SPT	1	1	o	0	. 4	45	-  -	W	From 0.0 to 3.30 m  Clayey silt with fine to medium-grained sand, greenish gray, very s	n l	
							1 11		consistency, high water content, high plasticity, moderate dry strengt		
							-10.87 1				
HQ	1	85	0	D	O	Ö	- -				
	1								Shelby#1.		
		1					-11.87 2				
					_		- -				
SPI	2	1-1-	1	0	1_	45					
1							-12.87 3				
но	2	85	0	0	Q	0			Fro 3.3 to 12.50 m		
									Challe, #7		
							-13.87 4		Shelby#2. Sifty clay with fine-grained sand, dark gray, moderate plasticity, ve	M	
	'	1							loose.		
SPI	3	1	1	ō.	1	45	<del>│</del>	₩			1 1 1 1
			-				 -14.87 5				
HO	3	85	0	Ð	0	0					
	f			$\vdash \vdash$			- -				
						[	15.87 6		Shelby #3.		
							-10.07				
SPT	4	1	1	0	1	45	]]	W			1 1 1 1 1
							_				
НО	4	85	O	o	0	0	-16.87 7				
-	╀	<del>  ~</del>	ļ	<u> </u>	<u> </u>	Ľ,					
							- 11				
	1						-17.87 8				
SPI	5	<u> </u>	4		2	45	- [	W			2
НО	5	55	0	0	0	0	-18.87 9				
			1				- -				
SPI	6	1	1	ŀ	2	45	-19.87 10	W			2



					`		Swinsbo	ikig Cr	41966	COTA LINE. CEPA JECA STUNDY TWO LOG OF BORING	<b></b>					
										LOG OF BORING	BOR	ЕНО	LE:	BS neet	-10 3/	20
cu	ENT	Ner	PON	KOI		<del></del>	~			SOIL INVESTIGATION OFF SHORE	DRI	I DIC	LY-34	жец		3
_		RY:E				cox	ORDINA	TES.		13°19′ 54.3° - 87° 49′ 1.4°	DRIL			visst)		
	TН		22.00		m		TOM SE		VFI				Ti - Finisi			/10/01
}	_	SOIL						-,				GED E				100
BAMPLE TYPE	SAMPLE NUMBER	8ET 15 cm	6ET 30 cm	BET 45 cm		ECOVER CO	(	SEO1	EC	NICAL INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	INSPI		Rodolfo		<del></del>	
á	ě	* 8	2		× ×	RECO				swissb@ring	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-010		LA.	Pucai Y	any
		RO	CK C	ORE					S	dashoring Overseas Corporation Ltd.	1					
CONE BIZE	RUNNUMBER	RUN LENGTH IN CM	RECOVERY om	% RECOVERY	RED om	% RED	e Too	DEPTH IN S	GRAPHIC LOG	DESCRIPTION	,  —	PT TE		0 N	h	QD 00 100
							_		ij	Brecciaceous tuff rock, light to dark brown - gray with some reddish		1 1				
١		<b> </b>	75	4155			-	1 4	8	clasts, week to moderate weak, consists of subangular to sub rounded basatic and andesitic clasts, ranging in size from 6mm to			$  \cdot  $			
nu	"	75	10	100	۳	0	30,87	21	Ď.	100mm in length, slightly to moderate weathered, matrix is sandy sil		i			<u> </u>	
									Ŋ.	tuffaceous, moderate water content, non plastic, poorly to moderate cemented, water laid, massive				į		38%
1				Ī			_		ą.					İ ı		
ΗQ	17	125	125	100	47	38	_		Ď.							
<u> </u>	<u> </u>			<u> </u>			-31.87	z	6.	22,00m END OF BORING	] ]					
								23 24 25 27 28 29 29 29								

_				····			Seissbo	ring Oversee	s Corp. Lid.			Era	·	JICA S	Study Tea	ha				·-···		
	٠									LOG	OF B	ORING				во	REHO	DLE:	BS	-11		
CLIE	NT:	NIP	PON	KOE	Hd				SOIL IN	VESTICA	TION OF	ECHORE				T 65			sheet		1/2	
t				VAD		$\infty$	ORDINATI	ES:		.1" - 87° 49		SHORE				*	ILL RIC		4 Swissb			
DEP	TH		19,80	)	m		TOM SEA			Chart Datu	···········						TE (STA				8/10/0	1
١,		SOIL	SAM	PLIN	G	,										+	GGED					
TYPE	NUMBER	15 cm	30 cm	45 cm		£	GEOTE	CHNICAL	LINVESTIC	SATION F	FOR LA U	NION PRO.	IECT, EI	_ SALV	/ADOR			Rodo	ifo Alva	rado		
SAMPLE	SAMPLE	1 SET	2 SET	3 SET	N VALUE	RECOVERED		Sw			Ses Corp	ing	ŧd,			INS	PECIC	XR	Dr.	Pucai	Yang	
		RO	CK C	ORE									•			Ì						
CORESIZE	RUN NUMBER	RUN LENGTH IN on	RECOVERY om	RECOVERY	ст	RED	8	DEPTH IN M SAMPLETYPE GRAPHIC LOG			DESC	RIPTION		•			SPTT	EST			RQD	
8	RUN	N DE	RECC	3.	RED	33	6	SAMPLE SAMPLE SRAPHIC (				•				10.	an an a	40 SO S	SC N		: 0 60 81	
нα	1	130	0	0	Ċ	Ċ	- - -9.17 -		Clay, gree plasticity, r	enish gray, moderate t	very soft ( o high drys	consistency, trength	high wat	er conte	ent, high	1	And the second s	33		20 44	000	0 100
SPT	1	1	0	0	1	45	-10.17 	2	Shelby #1	•			·.			6	The second secon	***************************************	1	7	e de la companya de l	er (). Come acted authorized and acted
HQ	2	85	0	0	0	0	-11,17 -	3					•									
SPT	2	. 1	0	0	1	45	-12.17 - -	4	Shelby #2.	• •									1			and the state of the state of the state of
						1.	_	-   🎉											;	l :		
нο	3	85	0	0	0	0	-13.17 -	5		•									1	-		
						* * *	- -14.17 -	- 6										and the design of the contract of the				
SPT	3	1	1	1	2	45	-	14//								<b>.</b>	1		2		1:	
НQ	4	85	0	0	0	Đ	-15.17	7														
SPT	4	1	2	2	ব	45	- -16.17 -	- 8									A CONTRACTOR AND ADDRESS OF THE CONT	1				
НΩ	5	85	0	0	0		-17,17	9														
							-18.17	- - 10	10.50 m													

									·		
							Swissba	aing G	V#154	IS COID, LEED. JECA SOLERY YOUR  LOG OF BORING	a
											BOREHOLE: BS-11
~ 16	=NT·	NIP	ennu.	KOE	1 Mari	т—				SOIL INVESTIGATION OFF SHORE	sheet 2/2
		₹Y;EL				cox	ORDINAT	TES.		13°19' 53.1" - 87° 49' 0.2"	DRILL RIG; LY-34 DRILLER; Swissboring
ŒF	тH		19.80		m	ВОТ	TOM SE	ALE	VEL:	-8.17 Chart Dahim Level	DATE (STARY FINISH): 8-8/10/0
	l l	SOIL	SAM	PLJIN	ι. 	1					LOGGED BY:
TYPE	NUMBER	15 om	3C om	15 cm		Hg.	GEOTE	CHI	NCA	L INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	Rodolfo Alvarado
				7		۾ ا					
SAMPLE	BAMPLE	BET	3E.7	SET	VALUE	RECOVERED	÷			<b>swissboring</b>	INSPECTOR Dr. Pucai Yang
Ø	9		2	٠	z	REC			53	wissboring Overseas Corporation Ltd.	
_		RO	CK C	ORE		1	······································	1-1	7		<del> </del>
	8	≊	tto.	FRY					2 2		
CORE SIZE	RUN NUMBER	RUN LENGTH	RECOVERY	RECOVER	Ę	£	£	2	BAMPLE TYP	DESCRIPTION	SPT TEST ROD
8	RUN	P.C.N	RECC	*	RED	*	្ដែ	HT480	GRAPHIC		10 20 30 40 50 >50 N 20 40 60 8
		,	,					-	VI.	Sandy gravel, moderate water content, dark brown, low plasticity, moderate dry strength, medium stiff to hard consistency.	
TS	5	2	2	2	4	45	-		Ъ	moverage by soongal, measure our consideration.	
РΤ	6	13	17	20	37	40	-19.17	11	Ϋ́		37
<b>1</b> Q	6	55	0	ם	0	0	· -	-	9_		
	Ť			Ť	Ť				હ્યું		
भ	7	15	26	38	>50	45	-20.17	12	<u> </u>		>50
ю	7	<b>5</b> 5	0	0	0	0	-		Ĭ		
			,					-1	<u>ها</u> /		
भि	8	17	26	38	>50	45	-21.17	13	(E)		<b> </b>   <b> </b>   <b> </b>   >50
Ю	8	55	0	0	σ	0	-	-	0		/
PT	9	9	14	19	33	45	-22.17	14	b		33
									্বৈ		🐧
HQ	9	55	0	-	0	0		-	60		1
PT	10	11	18	22	40	40	-23.17	15	ΜŽ		40
· In	10	55	0	0	0	0	-	-	Ø	15 50 m	
	11				>50	-	-		杨	15.50 m	>50
<b>1</b> 0		F-	F.				-24,17	16	0000	Gravel, weak, consists of volcanic rock fragments up to	
Ų	H	55	3	100	0	0			6	70mm in length, subangular to sub rounded, slightly to moderate weathered, matrix is sandy silt, moderate water	
भा	12	17	24	32	>50	35	: _	] ]	V.	content, non plastic, high dry strength, mostly matrix was	
HQ.	12	55	55	100	٥	0	-25.17	17	000	not recovered contains few shell fragments	
							_		/8º		
SPT	13	30	50		>50	25	-26.17	18	() (8)	17.80 m	>50
							2.0.17		P		
HQ —	13	110	110	100	51	46		-	N.	TOP OF SOUND ROCK Brecciaceous tuff, weak to moderate strength, consists of few and	
							-27.17	- 19	å	scattered basaltic and andesitic clasts, ranging in size from 5mm to	4
							-		Q3.%Q.50	50mm subangular to sub rounded, matrix is fine to medium grained, non plastic, water laid, scattered thin bedding	1
HO	14	90	90	100	68	76		-	800	19.80 m END OF BORING	76%
			<u> </u>		ٽٽ		-28.17	- 20	Ų		

Γ-							Swissbo	dng O	y#500	s Corp. Lid. CEPA JICA Sudy Tea	- Arty						
										LOG OF BORING							
											E	BORI	EHOL		BS- eet	·12 1/	2
_			PON							SOIL INVESTIGATION OFF SHORE	Ι	DRIL	RIG:	LY-34	CGI		<u>-</u>
	ארוי זומל		13.00		OR m		ORDINAT		VE1 :	13°19' 51.3" - 87° 48' 58.6"	_	DRILL			issbo		
			SAM			(3.7)	I CM SE	M LLE	VEL:	-7.32 Chart Datum Level		LOGO		r-Feeste Y:		26-3	30/9/01
	3ER	<u> </u>	om)	CIII			CEOTE	~ II	U~ A I	INTESTIGATION FOR LA HANGALIPPO INCT. EL CALVADOR	1						
TYPE	NUMBER	ļ ‡	2	5		Ē	GEOIE	UMA	ICAL	. INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	K			Rodolfo	Alva!	ado	
	   <u>  uj</u>				a.	ERED				<b>swissboring</b>							
SAMPLE	SAMPLE	55.	SET	SET	N VALUE	RECOVERED			Swi	saboring Overseas Corporation Ltd.		INSPE	CTO	₹ .	Dr. F	Puçai Ya	ing
<del> </del>	<u> </u>	RO	CK C	ORE	L <u>^</u>	<u> </u>				and the state of t	ł						
		S E				Ĭ			П		†				1		
<u>"</u>	E.R.		동	VEAY		_		# 2	8	DESCRIPTION						:	
CORE SIZE	RUN NUMBER	LENGTH	RECOVERY	RECOVERY	E C	ROD	ε	NI HT450	GRAPHIC (	DESCRIPTION	l	Si	ग १६	ST	l	R	20
8	₹	ž.	<u>#</u>	*	ş	*	8	ő			1	0 20	30 40	50 >50	N	20 40	60 80 10a
HQ	1	55	0	0	0	0	-	1		Clay, greenish gray, very soft to soft consistency, high water content	ıt.						
		<u> </u>	1		ļ	<b></b>		1		high plasticity, moderate dry strength, with traces of sandy silt			a President				
SPT	1	1	0	0	1	45	-8.32	1	W		¢	•			1	! !	
								_				, ;					
								-			∦						
					l		-9.32	2									
HQ	2	165	0	0	0	0		~									
	Γ						-10.32	1		Shelby #1.							
		ĺ						Ĭ		Chapy W.	- []		i			i	
							-	-									
•							-11.32	4									
HQ	3	120	0	,				-					į			] [	
	-	120		0	0	0	_	1									
SPT	2	5	2	3	5	45	-12.32	5	W	5.10 m	١,				5		
-		İ					-	+	o	Shelby #2.  Clayey gravel, gray to dark brown, low water content, low plasticity, low							
SPT	3	5	10	10	20	20		1	18	dry strength, medium stiff to very stiff consistency.		$\setminus$	į		20		
							-13.32	6	1			Ĭ	) : 				
ĺ							_		စြ		ļ						
	4				_		-	_	8								
	4		0	0	0	0	-14.32	1					Ì				
SPT	4	7	12	9	21	45	-	]	V				: L !		21		
HQ	5	45	0	0	0	0	-15.32		] [			1	9				
			Ť		┌╌	Ť		<u>[</u> ]	ြု			/					
SPT	5_	4	4	7	11	45	-	1	181			4			11		
но	6	55	0	0	0	0	-16.32	9	8	9.00 m			V				
erm							} -	1	(S)	Gravet, consists of abundant angular volcanic rock blocks, sightly t moderate weathered, ranging in size from 5mm to 350mm, hard rock							
SPT	5	14	24	-31	>50	45	1 -		옏	fines was not recovered	X.			1	>50		
НО	7	55	0	0	0	0	-17.32	10	8			2			!	;	

							Swissbo	aring O	V44.244	es Corp. Ltd.			EPA		ICA Study Team	<del></del> -					
											LO	G OF B	ORING		•	nan	r-1 (a				
																BOR	EHO!		BS- heet		12
			PON							SOIL I	VESTIG.	ATION OF	F SHORE			DRIL	L RIG	: LY-34			
			L SAI		OR	—	ORDINAT				1.3" - 87° 4	<b>18</b> 158.6					LER:		wissb	oring	
DEF			13.00		m	BO	TTOM SE	ALE	VEL:	-7,32	Chart Dah	im i evel						T-FMS	H):	26	30/9/01
	1	301L	SAM	PLIM	 	ı										LOG	GED E	3Y:			
TYPE	NUMBER	15 em	30 em	45 cm		W6 C	GEOTE	CHN	(ICA	L INVESTI	IGATION	FOR LA U	NION PROJE	CT, EL S/	ALVADOR	····		Rodolf	o Alva	rado	
SAMPLE	SAMPLE	1 SET	2 SET	3 SET	N VALUE	RECOVERED			Sw	W2 gninodeei		O@F	ing oration Ltd.			INSPI	ECTO	₹	Dr. I	Pucai Y	ang
		RO	CK C	ORE																	
CORESIZE	RUN NUMBER	RUN LENGTH IN OM	RECOVERY on	RECOVERY	cuo (	NO.	E	DEPTH IN IN	GRAPHIC LOG			DESC	CRIPTION			S	PT TE	ST		R	(QD ]
SO	2	Ş	끭	*	goy.	*	GD CD	da d	GRAS							10 20	30 4	0 50 >5	SC N	20 40	60 80 te
Ю	В	20	20	100	.0	0		1	Q.							j		}			
SPT	7	8	25	10/50	>50	40	] -	- \	\\&	,		•				j			>50		
		Γ	Γ				-18.32	1,-	0	11.00 m					j	ļ	] ]		]		
Ю	9	60	0	o	0	٥	10.32		g		eous tuff,	dark brown	-gray, weak t	o moderat	e strength,	Ì					
			} _							consistss	of basaitic	and andesi	tic clasts, up to	250mm in	length, hard	į					
							_	_	9000	rock, mat laid	uox is sand	y tuttaceous	poorly to mode	rately cem	ented, water						
HQ	10	80	80	100	0	0	-19,32	12	Q,Q												
,			1	} ;	}		-	╽╌┟	100					100							
								-	g		•										
НО	11	100	100	100	0	0	-20.32	13	Q			13.00 m E	ND OF BORING	G							
						İ		-					<del>-, -,</del>			i					
				•			-	-													
			ĺ			İ	-	14													
		ĺ						[ ]							i	j					
1	ļ	1																			
			1					-													
!							) .	15													
								-		i											
		1														į					
							<u> </u>	16													
:								-	4												
			l			1	-	-	1				•		į						
			l				] -	17								i					
	ĺ														i	-					
							<u> </u>														
							1	-													
		ł					:	18		1											
								17 - - 18 -													
																			1		
	ļ		1					- 19											1		
			ļ					_													
		ĺ		[			. !	-	4						1						
			1					_													
	I	<b></b>	L	I	L		<u> </u>	20]		L		_					1	1 1		1 !	1 1 1

				···			Swissho	tion ()	~421M	s Corp. Ltd. CEPA JICA Startly Team				<del></del>	·				
							343300			LOG OF BORING	WIT.								
			<u></u>								B	OR	EHO	ot		BS heet	5-14	1/2	
		NIF								SOIL INVESTIGATION OFF SHORE	L	DRII	1 RI	G, I	Y-34				
		₹Y:EI					ORDINAT			13°20' 2.3" - 87° 49' 14.8"	4-		LER			wisst	xoring		
DEF		SOIL	18.00		m .	801	TOM SE	A LE	ÆL:	-5.47 Chart Dahim Level	+				- FINIS	H):	-	24-27/	10/01
	ı			run		ı					'	LOG	GED	BY	<b>'</b> :				
3641	NUMBER	(5 cm	30 оп	45 cm		шe	GEOTE	CHN	KAI	INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR	١			F	Rodol	fo Alv	arado	· —————	
SAMPLE	SAMPLE	1 SET	2 SET	3 SET	N VALUE	RECOVERED			Sv	SWISSDORING Visaboring Overseas Corporation Ltd.		NSP	ECTO	OR		Dr.	Puca	i Yang	ı
	,		CK C	ORE				· .											
		5	E			1		T	┨┨		T					-	Γ.		
CORESIZE	RUN NUMBER	LENGTH	RECOVERY .	RECOVERY	cm :	ROD	ε	HIN B	HIC LOG	DESCRIPTION		8	PT 1	TES	π		L	RQD	
SOR.	줉	Ş	Š	*	AGD.	*	ig Cg	NI HEAGAG	GRAPHIC		1,	0.20	30	4n	50 >5	SC N	20	മരണ	-80 nos
HQ	1	55	0	0	0	0	-	-		Silty clay, greenish gray, very soft consistency, high water content,	T	. [		j		1	Ì		
SPT	1	1	1	1	2	20	-6.47	1		high plasticity, moderate dry strength.		:				1 2			1
ΗQ	2	55	o	0	0	0	-	-			Ĭ	:			1			1	
SPT	2	1	2	1	ŝ	25	- -7.47	_ <u>-</u>						******	****				
								1		Shelby #1. from 2,60 to 7,20 m	ľ					-		ĺ	
SPT	3	2	1	1	2	30	-8. <b>4</b> 7	3		Silty clay with some sand, greenish gray, very loose, high water		•		***	1	2			1
на	3	55	0	0	0	0	_ 	-[		content, low plasticity moderate dry strength.				-			:		
SPT	4	1	1	2	3	35	-9.47	4						-	AD ABBOTT & T	! 3			
								1		Shelby #2.		•				Ì	ì	i	
SPI	5	1	1	1	2	40	-10.47	<u></u>								2		1	!
HO	4	55	0	0	O	0	-	-											!
SPT	6	2	1	2	3	40	-11.47 	6					1 1		1	3			
НО	5	95_	0	0	0	0	_	-						-					
SPT	_Z_	_1_	2	_1_	3	<b>4</b> 5	-12.47 -	1	9	7.20 m	þ	•		**************************************		3			
HQ	6	80	41	51	0	0	- -13,47	8	9	Gravel, consists of abundant subangular to sub rounded volcanc rock blocks, up to 100mm in length, slightly to moderate weathered, weak,						1		1	
SPT	8	1	2	4	6	45	-	1	8	contains coarse and medium sand, lines was not recovered									
НО	7	55	18	33	0	0	-14.47	9	ව ව							-			
<u>SPT</u>	9	5_	7	11	18	25	-	1	963			1		1		18	1		
HQ	8	55	26	47	,	ا ، ا	15 47	-	ام			-			!	ļ			
HC	F8	1 55	26	47	0	0	-15.47	10	IV.		L		1		i				

										n Corp. 11d. CEPA JICA Study Yea LOG OF BORING						-
											ВС	REH	OLE:	BS	-14	
CU	z,m.	Min	2000	W/n=	1 <b>j</b> e.	г				CON INTERTO A TON OUR CLICATE	T :-		<del></del>	sheet	2/	2
				KOE.		·~	ORDINAT	Ec.		SOIL INVESTIGATION OFF SHORE 13°20′ 2.3" - 87° 49′ 14.8"		RILLER RILLER	IG: LY<			
DEI			18,00		m	<del></del>	TOM SE		VEL:	-5.47 Chart Dahan Level	+		K: ART - FIN	Swissbo		27/10/
		SOIL	SAM	PLIN	G		1				+	OGGE				211100
	ļ Ķ	c					OFOTE			INTOTOTOTON FOR LA UNION PRO IFOT EL CALVADOR						
TYPE	NUMBER	15 cm	99 Em	e e		E	GEUIE	:UNI	AICHI	LINVESTIGATION FOR LA UNION PROJECT, EL SALVADOR			Rode	olfo Alva	rado	
			"	ľ		<u>a</u>							~	·		
SAMPLE	SAMPLE	SET	SET	gg.	VALUE	RECOVERED				<b>swissb@ring</b>	IN	SPECT	OR	Dr.	Pucai Ya	eng
6	S.	18	8	S.	2	28			S	visaboring Overanas Corporation Ltd.	ł					٠
	-	RO	CK C	ORE			<u> </u>								_	
		EO N	1								ł					
ш	BER		8	ER				E		DESCRIPTION	١,	OFTE			L	<u> </u>
CORE SIZE	RUN NUMBER	RUN LENGTH	V ER	RECOVERY	5	ĝ.	E	ž	BAMPLE TYP 3RAPHIC LOG	DEGOIGH HOM	ļ	SPI	TEST	!	LK	GD
8	RUN	5	RECOVERY	*	Rab	*	텀	HL	GRAPHIC GRAPHIC		10	20 30	40 50	>5C N	20 40	60-80
									0		T					T
HQ	9	55	22	40	0	0	-	-	Ø	Same material as above		\				
म्ब	10	8	9	11	20	45	-16.47	1	\\&\					20		}
									P		$  \  $	T				
			ĺ				-	-	0							İ
НΟ	10	100	36	36	0	0	_ -17.47	12	8	12.00 m		Ī				
	۳	<u> </u>	<u> </u>	<u> </u>	۲	† <del>"</del> ⊤	-17.47	["]		19.00.11	1					
						•	-		8	Sandy silt and gravel, consists of sandy silt, moderate to high water						Į
u^		400			_		, <u>.</u>	-	0	content, moderate plasticity, moderate to high dry strength, contains scattered and weathered rock fragments up to 50mm in size, weak	1					ĺ
HU	:1	100	70	10	0	0	-18.47	13	9							
нΩ	12	55	0	0	0	0			o o							ļ
			_						(위							
<b>&gt;&gt;</b> (	11	5	8	10	18	20	-19.47	14				4		18		į
но	13	55	0	0	o	o	-		8				$\langle \cdot   \cdot  $			
	,,							-					1			İ
3P1	12	17	25	45	>50	30	-20,47	15	18					>50		ĺ
SPT	13	11	17	22	39	45	_		V.J					39		
								-	9	•	]		7			]
HQ	14	55	55	100	0	0	-21.47	16	90	•					[	
							-	-	8							
							_		0				$  \   \   \  $			
HQ	15	100	08	80	0	0	-22.47	17	8				\			ļ
НΩ	16	55	10	18	Ō	0			o				1			
							_				П			\		
अग	14	10	32	30	>50	30	-23.47	18	10	18.00 m END OF BORING	$  \  $			>50		
							-	-								
							· ·	19								
				ļ				-								
								]								İ
			<u> </u>	<u> </u>				20	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$		Ц	$\perp$		1		
		٠.	-													
							•									
				-												
														•		

<u> </u>					<del></del>		Swissbo	orang O	VATSOR	s Corp. Ltd. CEPA JICA Study Year				,. ,.,.	······		
								-		LOG OF BORING							
											ВО	REI	IOL		BS-		n
		Nif								SOIL INVESTIGATION OFF SHORE	DF	RILL F	RIG:	SI LY-34	neet	1/	
		37.EI				<b></b>	ORDINAT			13°19′ 57.7" - 87° 49′ 11.0"	+	RILLE			vissbo	ring	
DEF		SOIL	17.50 SAM		m G	BO	ITOM SE	ALE	VEL	-4.72 Chart Dahim Level	<del> </del>			- FINISH	):	16-	17/10/01
ļ	1 . 1				Ĭ							XGGE	יטטי				
TYPE	HUMBER	15 cm	30 69	15.		<b>8</b>	GEOTE	ECHN	IICAI	L INVESTIGATION FOR LA UNION PROJECT, EL SALVADOR				Rodolfo	Alvar	ado	·
SAMPLE	SAMPLE	1 SET	2 SET	3 8ET	N VALUE	RECOVERED			Swi	SWISSBORING Suboring Overseas Corporation Ltd.	INS	PEC	TOR		Dr. P	ucai Ya	ang
		T	CK C	ORE													
35	MBER	LENGTH IN OR	RY cm	OVERY	E	0		E .	0 0 7	DESCRIPTION	r	CIT					00
CORE SIZE	RUN NUMBER	RUN LE	RECOVERY	RECOV	ROD em	S C	E 100	N HLAGO	18		[	SPT	I LES	31 ]	l l	K	<u>GD</u>
ļ ö	E.	<del>K</del>	花	*	×.	*	당	8	ě		10	20 30	0 40	50 >5	C N	20 40	60 80 1
но	1	55	0	0	0	0	_			Clay with medium to fine-grained sand, dark gray, very soft consistency, high water content, high plasticity, moderate dry strength.		1			Ì		
SPT	1	1_	0	0	1	45	-5.72	- \			<b>P</b> :				1		
							_			Shelby #1.		1					
							-6.72	2		Shelby #2.							
HQ	3	25	0	0	0	0	-										
SPT	2	1	0	1	1_1_	45	-7.72	3		3.00 m		. !					
Нα	4	55	55	100	0	0	-	-	00	From 3.0 to 6.0 m Gravel, weak, consistss of abundant angular to subangular andesition		1					
		28	33		>50	1	-8.72	1	9	and basaltic rock blocks up to 70 mm, hard rock, contains fine to coarse sand, loose							
	Γ				-34		_	_	9		:	•		)	>50		
HQ	5_	55	55	100	0	0	-	-	8			i		***		1	
SPT	4	33	42	56	>50	45	-9.72	5	0		1				>50		
HQ	6	55	55	100	0	0	- -	-	300			7					*******
SPT	5	43	33	48	>50	45	-10.72	4	90	From 6.0 to 8.0 m		!			>50	1	
на	7	55	55	100	0	0	_	-	3	Gravel and tuffaceous sand, consists of angular to sub rounded rock		!					
SPT	6_	14/50			>50	12	-11.72	+	8	blocks, up to 100mm in size, matrix is sandy tuffaceous, fine to medium grained, poorly cemented		-		•	>50		
НΩ	8	100	100	100	0	0	_	-	8		:	•					
डधा	7	14/50	,		>50	13	-12.72	a	ြ	From 8.0 to 15.0 m		•		•	>50		
HQ	9	100	100	100	o	0		-	0	Gravel, weak, contains abundant angular to subangular rock blocks,		1					
SPT	8	14/50	<u>}                                    </u>		>50	10	_ -13.72	<sub>=</sub> }	Ω	up to 150mm in length, hard rock, fines was not recovered		•		•	>50		
на	10	100	100	100	0	0	-	-	Õ			•					
		15/50			>50	-	_	4	9			,			>50		
Ц.	<u> </u>	<u> </u>	<u> </u>	L	<u> </u>	<u> </u>	-14.72	10	12		1 :	ŧ	1	!T	1	9 1	

			<del></del>			<del></del>	Swinsho	oring C	harse	ts Corp. Ltd. CEPA JICA Study Te	Annone Julia			<del></del>		· · · · · · · · · · · · · · · · · · ·	
										LOG OF BORING							
											BC	DREF	iole:		<b>⊱1</b> 5		
CLI	FNT	: NH	DD/N	1 KO	F1 10-4	1				SOIL INVESTIGATION OFF PUODE	Lo		~~~	shee	<u> </u>	2/2	
		RY:E					ORDINA	IFS:		SOIL INVESTIGATION OFF SHORE 13°19' 57.7" - 87° 49' 11.0"	+	RILLE!	RIG: LY-:	swissi	metro		
	PΤН		17.5		m		TTOM SE		VEL:				TART - FR			6-17/10	0/0
		SOIL	SAN	PLIN	G						LC	)GGE	D BY:			-,	
"	838	₹	5	€			G	EO	FEC	INICAL INVESTIGATION FOR LA UNION PROJECT, EL			Dark	lfo Alv			
ĭ7₽E	NUMBER	2	8	#\$ 2		5				SALVADOR	L			AIO /41		•	
ш	۳	İ		ł	w	9				curicchoring							
SAMPLE	BAMPLE	<b>8</b>	늏	SET	AALUE VALUE	RECOVERED				swissb <b>o</b> ring	INS	SPEC1	ror	Dr.	Puca	i Yang	•
υS	_ <u></u>	٢	N	8	z	뿐	ļ		Sw	issboring Overseas Corporation Ltd.							
	Γ	RO	CKC	ORE					1		╀-						
		Z	5	≿					,		[ .						
빏	RUN NUMBER	RUNLENGTH	È	RECOVERY	ş	202		E .	8	DESCRIPTION	1	SPT	TEST		<b> </b>	RQD	
CORE SIZE	Z	N N	RECOVERY		2	1 1	E	NI HLJGO	SAMPLE GRAPHIC		Ι'		<del></del> -				~
<u></u>	Ĕ	<b> ₹</b> 5	<u>*</u>	*	<u> </u>	<b>*</b>	<u> </u>	F	18		110	20 30	40 50	SC N	20 4	40 60 B	0
o	11	100	100	100	0	0	-	-	b	Same material as above				$\Pi$			ļ
_	_	13/50	•		>50	_			S.					-50 ⊾			1
							-15.72	11	10					T			ļ
_							-	-	B			İ					Ì
<u>प</u> श	_	14/50		100	0 >50	0 14	-	1	lŏ								1
÷	<del>                                     </del>	173	Ĺ		-30	17	-16.72	12	Ю	*	İ			>50			1
							_		8								1
		100		100		0		-	٥								1
<u> </u>	12	12/50	<u></u>		>50	12	-17.72	13	γļ					>50	1		
							-11.72	'	8							11	١
_		100		100	0	0	J		IS.	·							1
PT	13	14/50	) E		>50	11		-	1/2			}		>50			ĺ
						.	-18.72	14	လို			į					
							_		2	•							Ì
							_		Ko					ĺ			1
<u>Q</u>	15	145	73	50	0	0	-19.72	15	٣	15.00 m	4						1
							-	-	00	Tuff, yellowish brown, moderate water content, non plastic, high dr							
									10	strength, contains few and scattered rock volcanic clast, up to	1			-			
Q	16	100	50	50	0	0	-20.72	16	8	50mm in length, weak, weter laid.			1				
							_		o					-			
					ļ		-	-	000								
Q	17	100	70	70	0	0	-21.72	17	Ö								
									6								ļ
Q	18	50	30	60	_	0	-	-		17.50 m END OF BORING	4						
					Ī	•	-	18									
	1		Į	1				"						1			1
								]		•							ļ
	Ì							-									
								19									
			i														
		]	ı		i '	1		20	1	,	1 1				1	11	١

Γ							Swiczbo		Corp. Ltd. CEPA NCA Sheb Ye		:
							<b>VMS300</b>	ring Oversee	COPP. Ltd. CEPA JICA SELECT Y &  LOG OF BORING	m ·	
										BOREHOLE:	BS-16 sheet 1/2
				KOE					SOIL INVESTIGATION OFF SHORE	DRILL RIG: LY-	
DEF			. SAL 14.90	.VAD	OIR M	-	ORDINAT	ES: A LEVEL:	13°19" 54.8" - 87° 49" 8.2" -4.67 Chart Datum Level	DRILLER: DATE (START - FI	Swissboring NSH: 19-20/10/01
	1 :			PLIN	•••••					LOGGED BY:	13-20/10/01
TYPE	NUMBER	16 cm	30 ст	шэ 64		Ho C	GEOTE	CHNICAL	INVESTIGATION FOR LA UNION PROJECT, EL SALVADO	Rox	lolfo Alvarado
SAMPLE	SAMPLE	1 \$57	138 €	3 SET	N VALUE	RECOVERED		Swi	SWISSDORING asboring Overseas Corporation Ltd.	INSPECTOR	Dr. Pucai Yang
			CK C	ORE				) <del>'' -                                  </del>			
CORE SIZE	RUN NUMBER	RUN LENGTH IN OR	RECOVERY cm	RECOVERY	C cm	яар	E	SAMPLETYPE GRAPHIC LOG	DESCRIPTION	SPT TEST	ROD
8	₽	χ. Ω	Æ	*	§	*	형	SAMPI GRAPHI		10 20 30 40 50	>5C N 20 40 60 80 100
							- - -5.67	- - - 1	Clay, greenish gray, very soft consistency, high water content. hig plasticity, moderate dry strength.		
НΩ	1	130	o	0	0	0		-			
			-	÷			-6.67 	2	Shelby #1.		
SPT	1	1	0	.0	1	45	_			<b>a</b>	1 1 1
ю	2	85	0	0	0	0	-7,67 · -	3			
							-8.67		Shelby #2.		
SPT	2	1	0_	0	1_1_	45	- -		*		4
њ	3	55	0	О	0	0	-9.67	5			
SPT	3	1	1	1	2	45	-				2
HQ	4	55	0	0	0	0	-10,67	6			
SPT	4_	1_	1	1	2	45	-				2
но	5	55	0	0	.0_	0	-11,67	7			
SPT	5	2	1_	1_	2	45	_ _				2
НΩ	6	55	0	0	0	0	-12.67	8			
SPT	6	1	_3_	3	6	45	_		8.50 m	<u> </u>	6
но	7	55	0	0	0	0	-13.67	9 3			
SPT	7	4	6	14	20	45	-	1/3	Gravelly clay, beige, high water content, low plasticity, moderate dry strength, exhibits blocks up to 30mm in length, hard consistency.		20
HQ	8	55	0	0	0	0	-14.67	10 🐧			