

DRILLING LOG		DIVISION		INSTALLATION		SHEET	
		S/W		Galveston Area		1 OF 2 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT			
Neches River salt water barrier				11. DATUM FOR ELEVATION SHOWN (TBM or MSL)			
2. LOCATION (Coordinates or Station)				12. MANUFACTURER'S DESIGNATION OF DRILL			
Bassment Texas				550-H.A. D.D.			
3. DRILLING AGENCY				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN			
V.S.C.E.C.				DISTURBED		UNDISTURBED	
4. HOLE NO. (As shown on drawing title and file number)				7 Jars		16 Cont.	
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BOXES			
WARR				15. ELEVATION GROUND WATER			
6. DIRECTION OF HOLE				16. DATE HOLE		STARTED	
☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				3 March 82		COMPLETED	
7. THICKNESS OF OVERBURDEN				17. ELEVATION TOP OF HOLE			
8. DEPTH DRILLED INTO ROCK				18. TOTAL CORE RECOVERY FOR BORING			
9. TOTAL DEPTH OF HOLE 70.0				19. SIGNATURE OF INSPECTOR			
				Burt D. D.			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
a	b	c	d	e	f	g
			0.0 to 2.5			
	2.5		GR. SD. CL (CL) w/ cement rip rock		1-C	
			2.5 to 5.0			
			white coarse sand			Trapped water at 3.0
	5.0		5.0 to 12.5		2-F	
			Loose			
	7.5		GR. SD. CL (CH) soft	.25	3-C	
	10.0			.25	4-C	
	12.5			.25	5-C	
	15.0		17.5 to 27.5	1.00	6-C	
			stiff			
	17.5		GR. L. med. CL	.50	7-F	
			w/ heavy organic med. material			
	20.0			.50	8-C	
			Med			
	22.5			.50	9-C	
			Med			
	25.0			.50	10-C	
			Med			
	27.5		27.5 to 32.5	.25	11-C	
			soft			
	30.0		GR. SD. CL (CH)	.75	12-C	
			med			
	32.5		32.5 to 45.0	1.00	13-C	
			stiff			
	35.0		GR. SD. CL (CL)	1.00	14-C	
			stiff			
	37.5	split	GR. SD. CL (SP) coarse		15-F	36.5 to 37.5 12 CL
		span				
	40.0		wash 37.5 to 40.0			
	42.5		GR. SD. CL (SP) coarse		16-F	40.5 to 41.0 11 CL
						41.0 to 41.5 35. CL
	45.0		washed 42.5 to 45.0			
			45.0 to			
	47.5		GR. CL (CH) w/ calc		17-F	46.5 to 47.0 22 CL
			v. stiff			47.0 to 47.5 23 CL
	50.0	3" st	GR. BR. SD. CL (CH)	4.00	18-C	
			Hard			

DRILLING LOG		DIVISION		INSTALLATION		SHEET	
		S/W		GALVESTON DIST		2 OF 2 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT			
Neches River Salt Water Barrier				11. DATUM FOR ELEVATION SHOWN (TBM or MSL)			
2. LOCATION (Coordinates or Station)				12. MANUFACTURER'S DESIGNATION OF DRILL			
Beaumont Texas							
3. DRILLING AGENCY				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN			
				DISTURBED UNDISTURBED			
4. HOLE NO. (As shown on drawing title and file number)				14. TOTAL NUMBER CORE BOXES			
82-1				15. ELEVATION GROUND WATER			
5. NAME OF DRILLER				16. DATE HOLE			
				STARTED COMPLETED			
6. DIRECTION OF HOLE				17. ELEVATION TOP OF HOLE			
☐ VERTICAL ☐ INCLINED DEG. FROM VERT.							
7. THICKNESS OF OVERBURDEN				18. TOTAL CORE RECOVERY FOR BORING			
				%			
8. DEPTH DRILLED INTO ROCK				19. SIGNATURE OF INSPECTOR			
9. TOTAL DEPTH OF HOLE							
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
a	b	c	d		f	g	
	50.0		CR. TAN SA. CL. CCW)				
	52.5	3' 1"	V/S. STIFF	3.00	19-C		
	55.0			4.00	20-C		
	57.5		57.5 to	4.00	21-C		
	60.0		GR. FINE SA. (SR)				
	62.5	SM. L. SPOON			22-J	60.5 to 61.0 16 BL 61.0 to 61.5 52 BL	
	65.0		washed 62.5 to 65.0				
	67.5		GR. FINE SR. SR.		23-J	65.5 to 66.0 22 BL 66.0 to 67.5 28 BL	
	70.0						
			Bottom at 70.0'			Fish tailed to	
						RAN "C" LOG 4 MAR 82	

Results of Tests of Foundation Material

Boring No.	Field No.	SWD No.	Depth ft.	Mechanical Analysis			Atterberg Limits			Water Content %	Dry Density lb/cu ft	Test		Description
				Gr	Sa	Fi	LL	PL	PI			Type	Plate	
82-1	S-1 (ctn)	A-10 625	0.0- 2.5 *0.5							14.2	115			CL CLAY, sandy, dark gray, moist, stiff, calcareous, piece of concrete in top 0.2'.
	S-2 (jar)	A-10 626	2.5- 5.0 *							13.8				SP SAND, gray, moist.
	S-3 (ctn)	A-10 627	5.0- 7.5 *0.6							25.6	98			SC SAND, clayey, gray, very moist.
	S-4 (ctn)	A-10 628	7.5-10.0 *0.4	1	51	48	27	17	10	18.1	104	UC	45	SC SAND, clayey, gray, moist.
	S-5 (ctn)	A-10 629	10.0-12.5 *0.4	0	34	66	35	15	20	27.4	97			CL CLAY, sandy, gray, very moist, firm.
	S-6 (ctn)	A-10 630	12.5-15.0 *0.4	1	49	50	28	16	12	22.9	102			SC SAND, clayey, gray, moist.
	S-7 (jar)	A-10 631	15.0-17.5							27.1				SC SAND, clayey, gray, very moist.
	S-8 (ctn)	A-10 632	17.5-20.0 *0.8	0	42	58	117	36	81	77.9	55			CH CLAY, gray, very moist, soft, organic, some de- cayed wood and roots.
	S-9 (ctn)	A-10 633	20.0-22.5 *0.8	1	75	24	130	32	98	95.3	98			CH CLAY, sandy, gray, very moist, soft, organic, de- cayed wood throughout, plus #40 material consists of decayed wood only.

*Actual length of sample in feet.

Results of Tests of Foundation Material

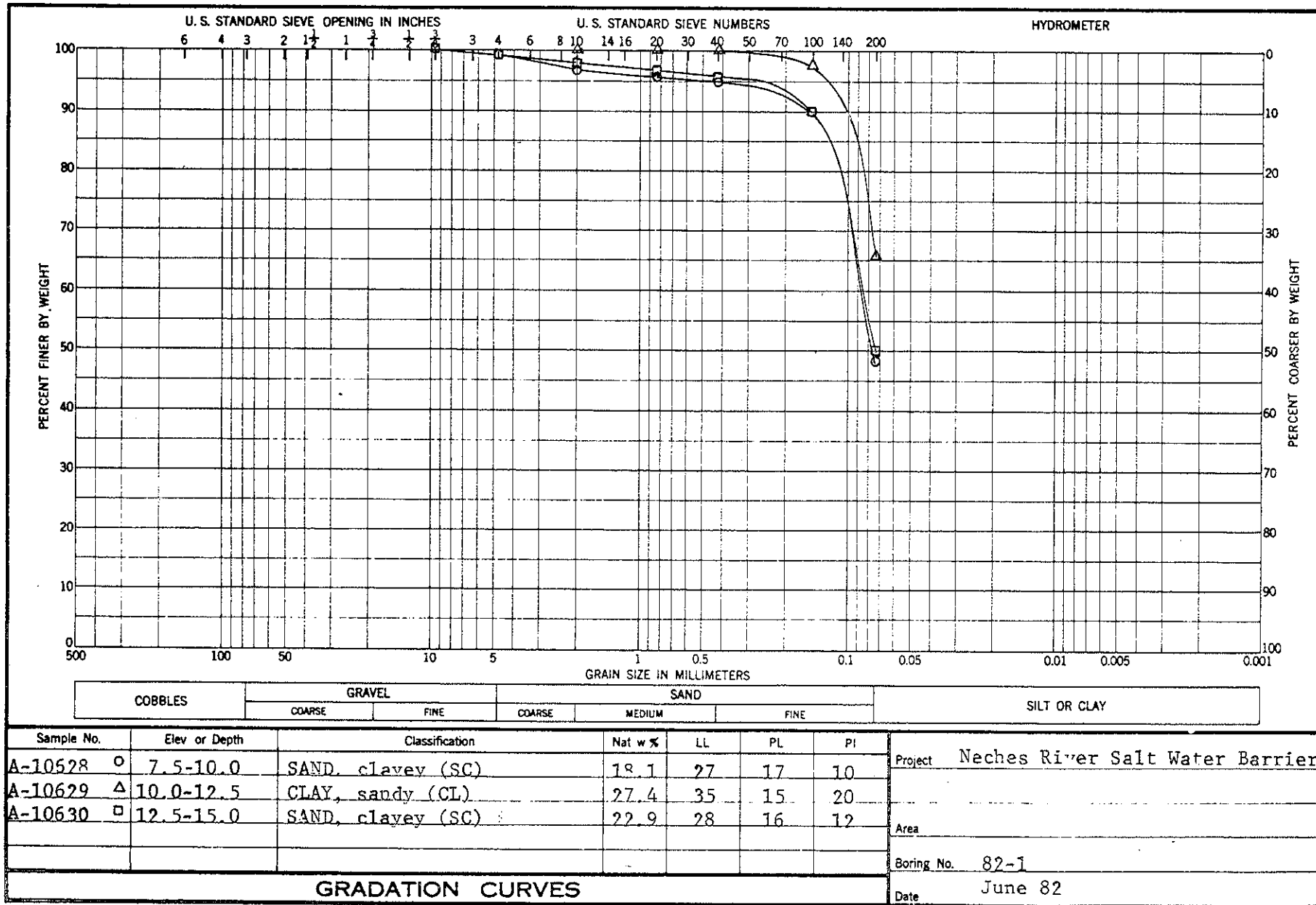
Boring No.	Field No.	SWD No.	Depth ft.	Mechanical Analysis			Atterberg Limits			Water Content %	Dry Density lb/cu ft	Test		Description
				Gr	Sa	Fi	LL	PL	PI			Type	Plate	
82-1	S-10 (ctn)	A-10 634	22.5-25.0 *0.5							97.6	43			CH CLAY, grayish brown, very moist, soft, very organic, decayed wood throughout.
	S-11 (ctn)	A-10 635	25.0-27.5 *0.5	1	64	35	109	26	83	73.2	53	UC	46	CH CLAY, sandy, gray, very moist, very soft, organic, decayed wood and some roots plus No. 40.
	S-12 (ctn)	A-10 636	27.5-30.0 *0.8	0	23	77	59	17	42	34.3	84			CH CLAY, sandy, gray, very moist, very soft, organic some roots.
	S-13 (ctn)	A-10 637	30.0-32.5 *0.7	0	15	85	56	16	40	33.1	86			CH CLAY, gray, moist, soft, some decayed wood throughout.
	S-14 (ctn)	A-10 638	32.5-35.0 *0.7	0	69	31	NP	NP	NP	20.9	73			SC SAND, gray, moist.
	S-15 (jar)	A-10 639	35.0-37.5	0	95	5				24.9				SP-SM SAND, gray, wet.
	S-16 (jar)	A-10 640	40.0-42.5	0	96	4				20.8				SP SAND, gray, wet.
	S-17 (jar)	A-10 641	43.0-47.5							34.1				CH CLAY, light olive brown, moist, calcareous, some chalky material.
	S-18 (ctn)	A-10 642	47.5-50.0 *0.9	0	15	85	42	13	29	20.3	106			CL CLAY, light gray and yellowish brown, moist, stiff, a few sand seams.

*Actual length of sample in feet.

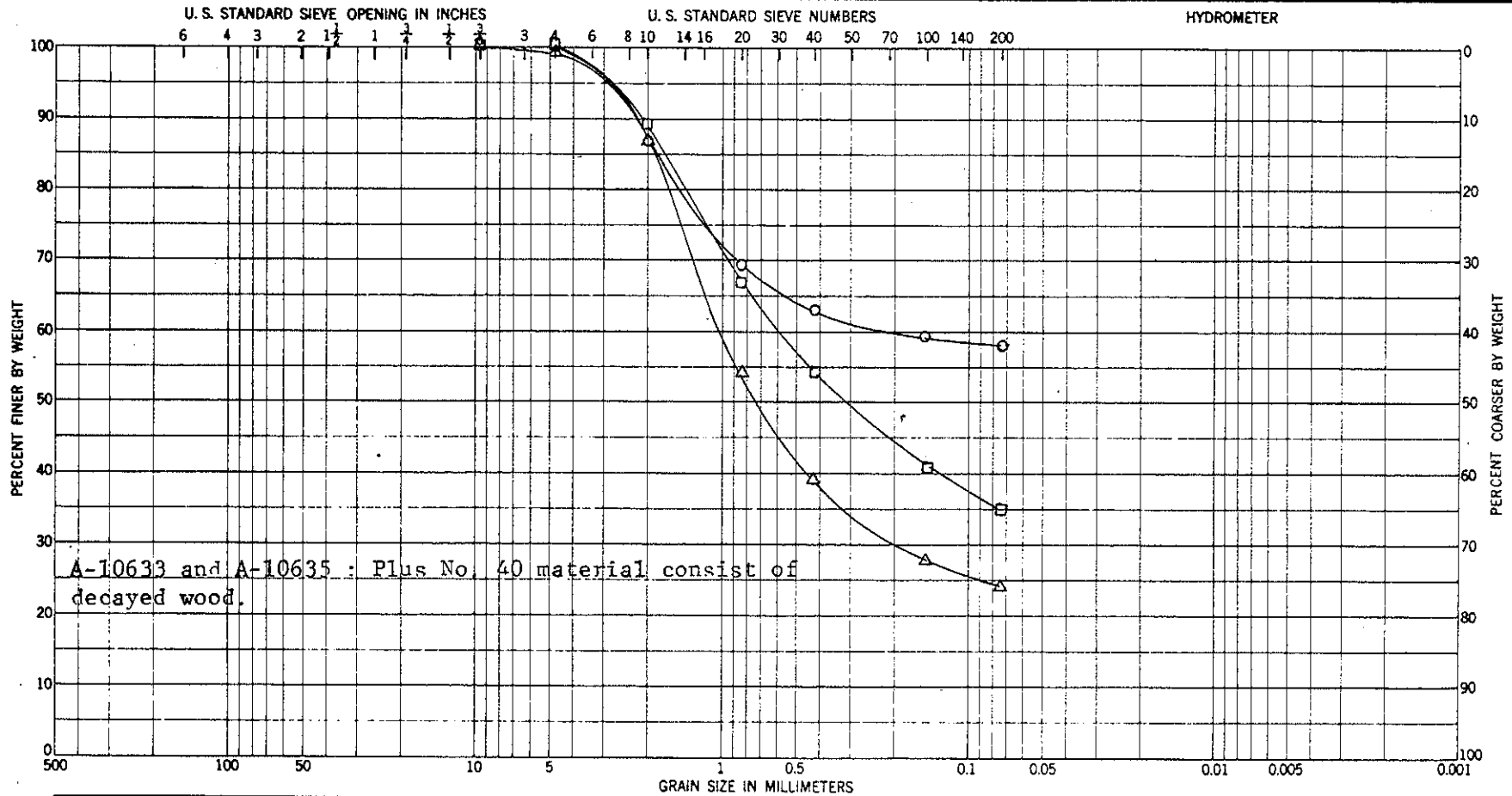
Results of Tests of Foundation Material

Boring No.	Field No.	SWD No.	Depth ft.	Mechanical Analysis			Atterberg Limits			Water Content %	Dry Density lb/cu ft	Test		Description
				Gr	Sa	Fi	LL	PL	PI			Type	Plate	
82-1	S-19 (ctn)	A-10 643	50.0-52.5 *1.0	0	24	76	36	13	23	20.9	106			CL CLAY, sandy, light gray and yellowish brown, moist, ve stiff.
	S-20 (ctn)	A-10 644	52.5-55.0 *1.0	0	33	67	38	10	28	21.2	107			CL CLAY, sandy, light gray and yellowish brown, moist, stiff.
	S-21 (ctn)	A-10 645	55.0-57.5 *0.9	0	59	41	20	11	9	18.4	110			SC SAND, clayey, light gray and yellowish brown, moist
	S-22 (jar)	A-10 646	60.0-62.5	0	92	8				23.0				SP-SM SAND, gray, wet.
	S-23 (jar)	A-10 647	65.0-67.5	0	93	7				25.2				SP-SM Sand, gray, very moist.
82-2	S-1 (jar)	A-10 648	0.0- 0.1							43.5				SC SAND, clayey, gray, wet, standing water.
	S-2 (jar)	A-10 649	1.0- 3.0	1	38	62	82	24	58	117.2				CH CLAY, sandy, dark gray, we organic, some decayed wood and roots.
	S-3 (jar)	A-10 650	3.0- 8.0	0	62	38	104	27	77	106.0				CH CLAY, sandy, grayish brown, wet, organic, decayed wood and roots.
	S-4 (jar)	A-10 651	8.0-13.0							89.5				CH CLAY, sandy, dark gray, we organic, some decayed wood and roots.

*Actual length of sample in feet.



SWDED-GL Report No. 13387



SWDED-GL Report No. 13387

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Elev or Depth	Classification	Nat w %	LL	PL	PI
A-10632 ○	17.5-20.0	CLAY, (CH)	77.9	117	36	81
A-10633 △	20.0-22.5	CLAY, sandy (CH)	95.3	130	32	98
A-10635 □	25.0-27.5	CLAY, sandy (CH)	73.2	109	26	83

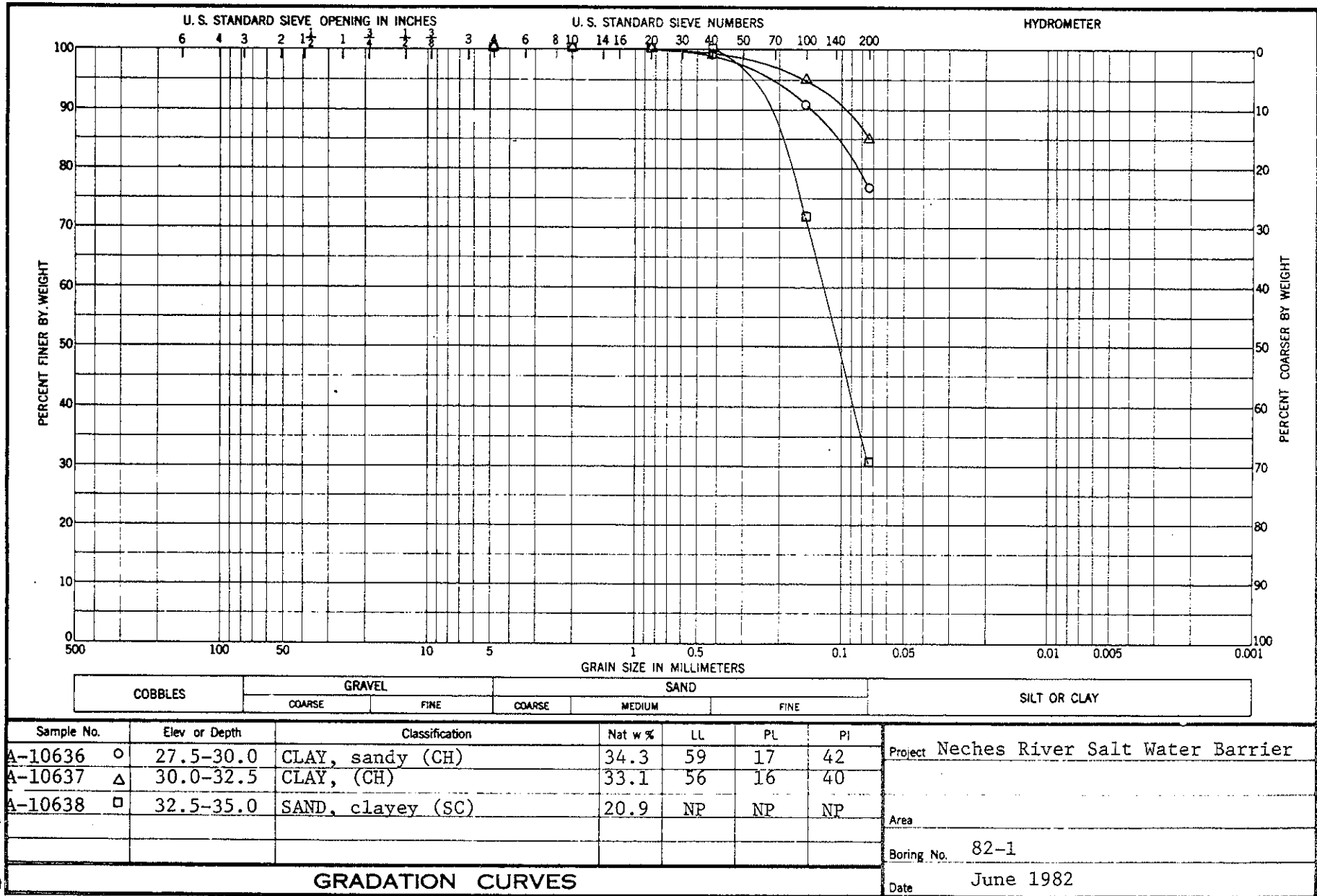
Project Neches River Salt Water Barrier

Area

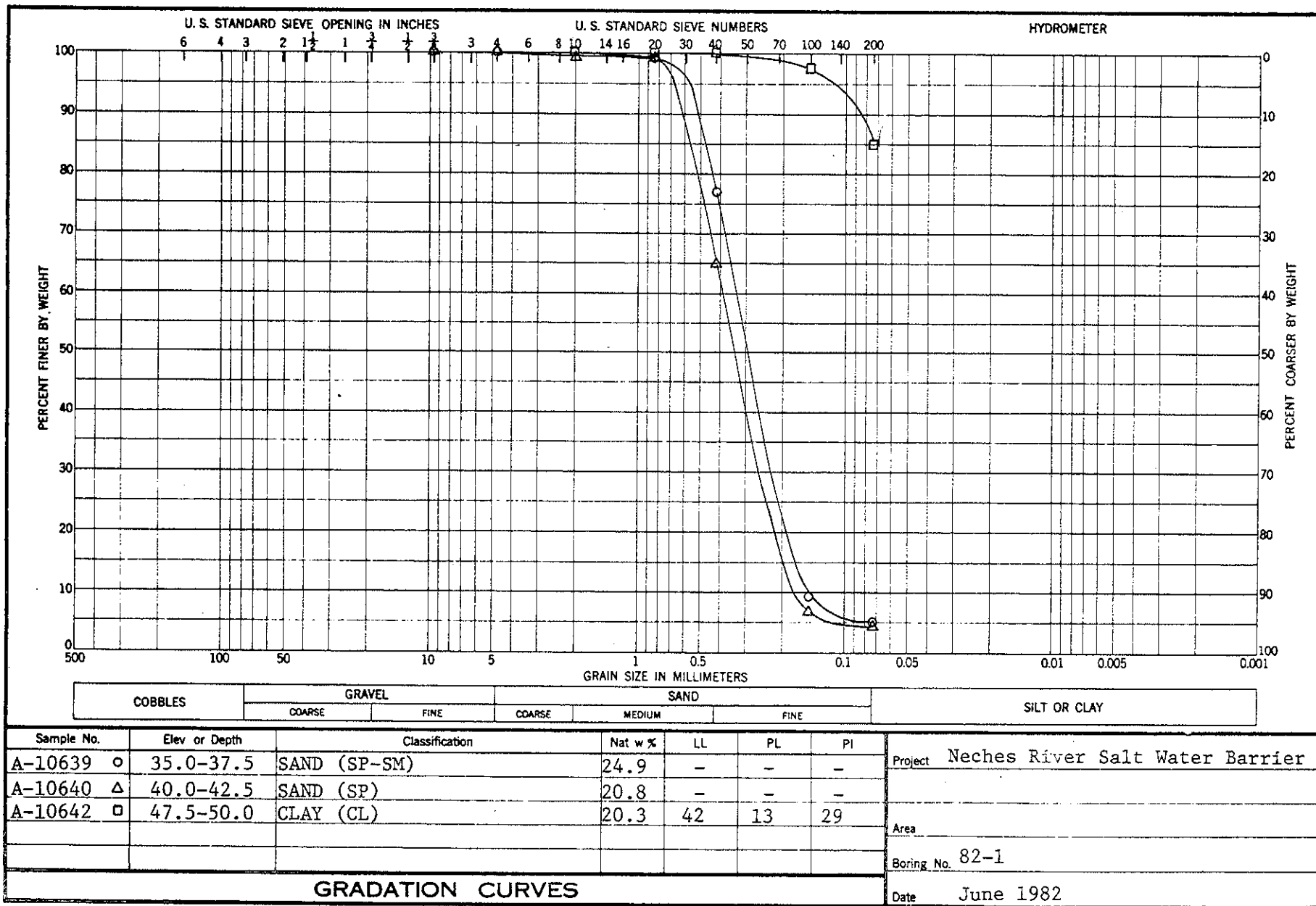
Boring No. 82-1

Date June 82

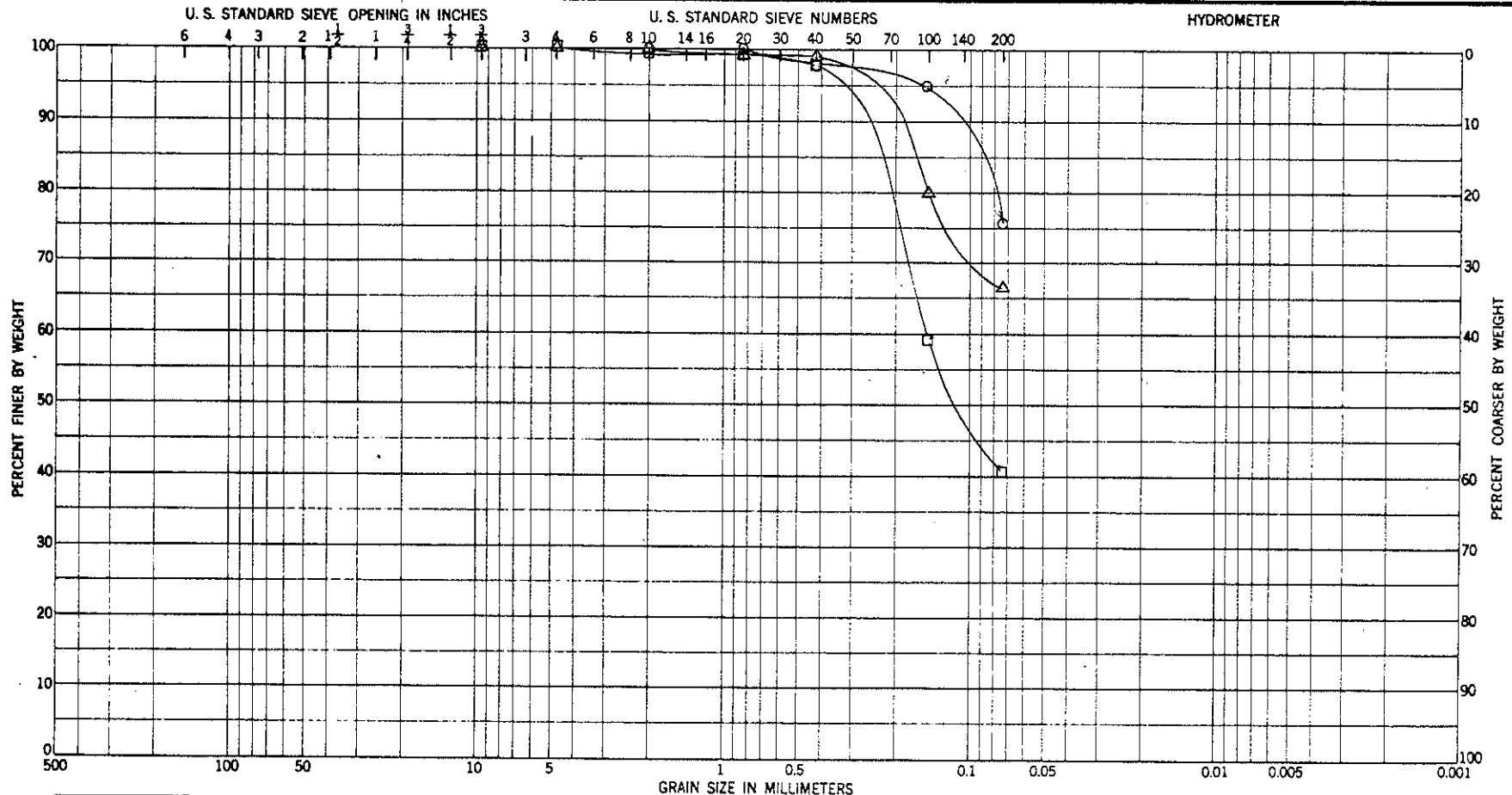
GRADATION CURVES



SWDED-GL Report No. 13387



SMDHD-GL Report No. 13387



SWDHD-CL Report No. 13387

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Elev or Depth	Classification	Nat w %	LL	PL	PI
A-10643	50.0-52.5	CLAY, sandy (CL)	20.9	36	13	23
A-10644	52.5-55.0	CLAY, sandy (CL)	21.2	38	10	38
A-10645	55.0-57.5	SAND, clayey (SC)	18.4	20	11	9

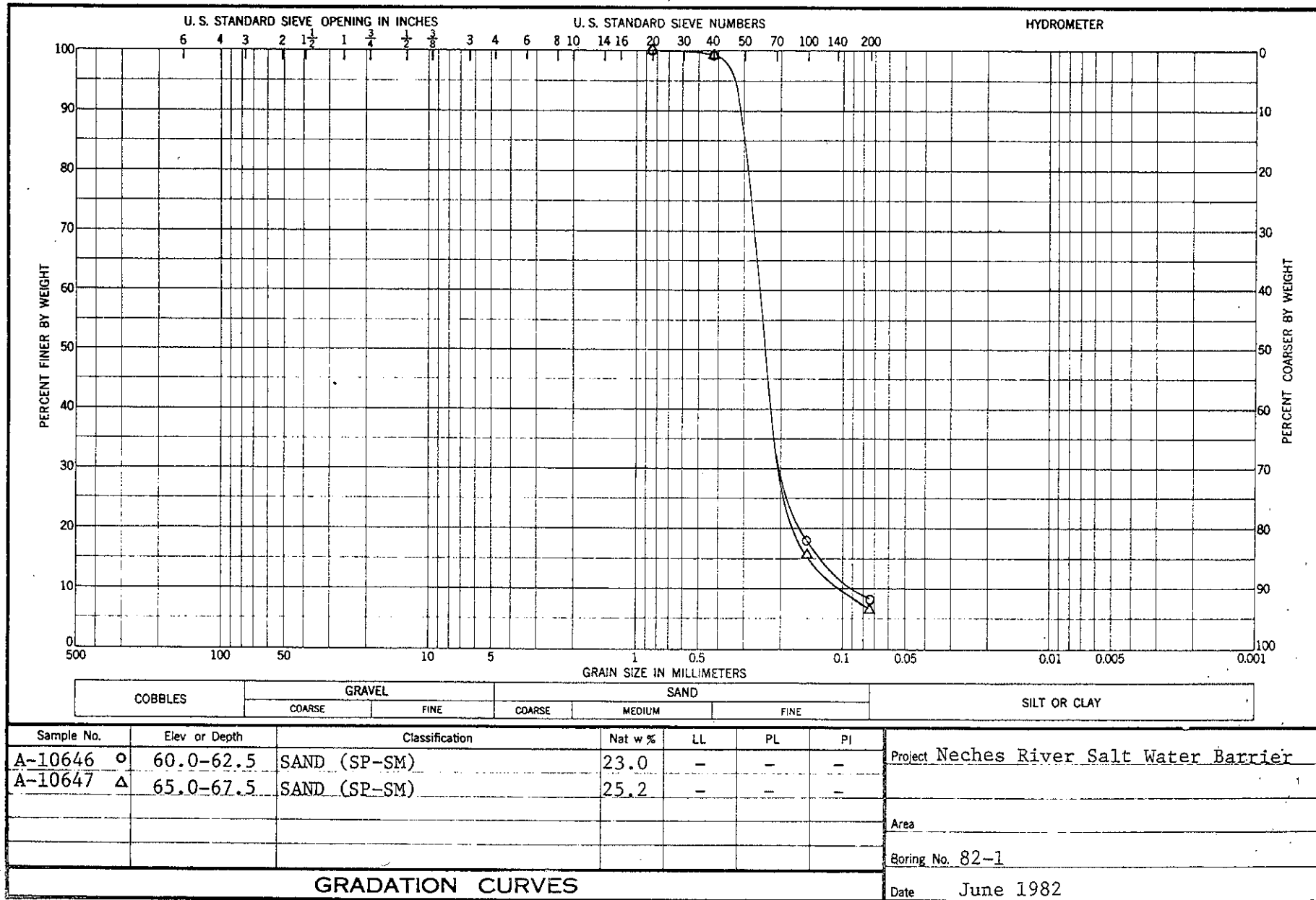
Project Neches River Salt Water Barrier

Area

Boring No. 82-1

Date June 1982

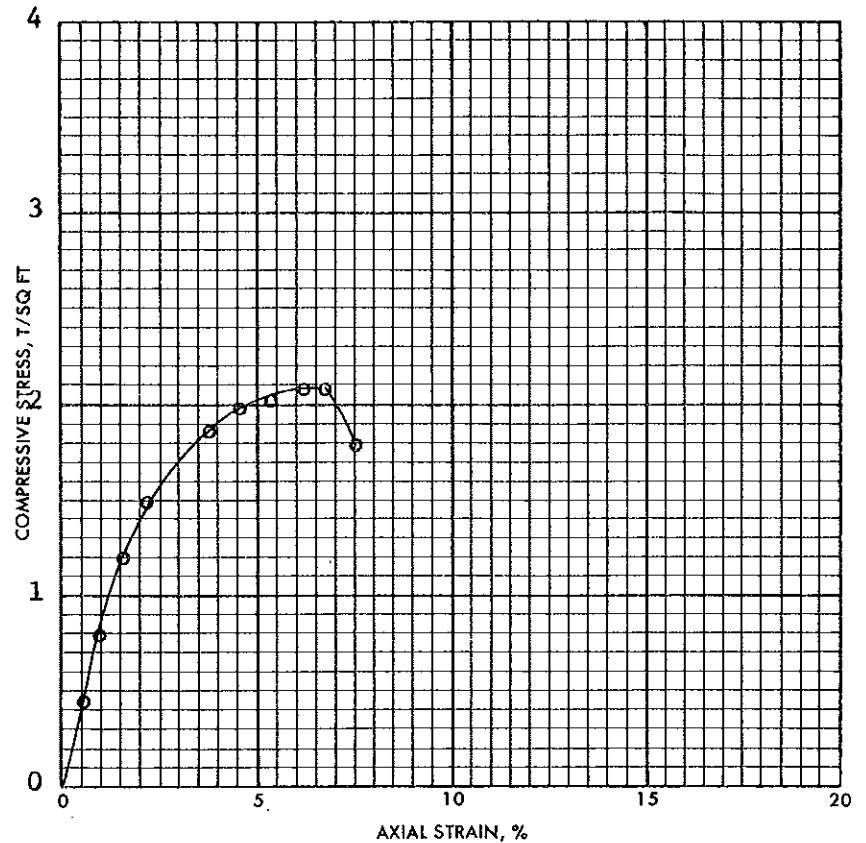
GRADATION CURVES



FAILURE SKETCHES

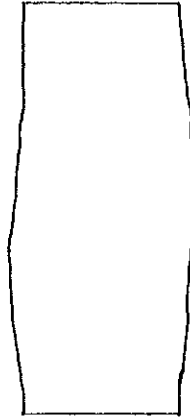


☒ CONTROLLED STRESS
☐ CONTROLLED STRAIN

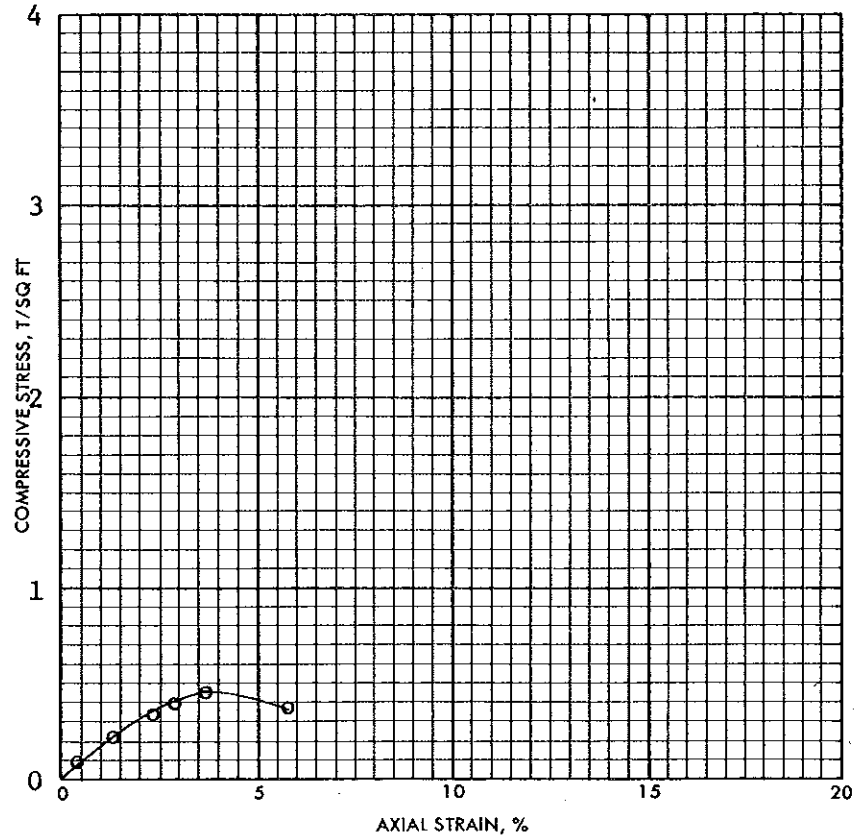


TEST NO.		1			
TYPE OF SPECIMEN		Undist			
INITIAL	WATER CONTENT	w_o	18.1 %	%	%
	VOID RATIO	e_o			
	SATURATION	S_o	%	%	%
	DRY DENSITY, LB/CU FT	γ_d	104		
TIME TO FAILURE, MIN		t_f	14		
UNCONFINED COMPRESSIVE STRENGTH, T/SQ FT		q_u	2.1		
UNDRAINED SHEAR STRENGTH, T/SQ FT		s_u	1.0		
SENSITIVITY RATIO		S_t			
INITIAL SPECIMEN DIAMETER, IN		D_o	1.8		
INITIAL SPECIMEN HEIGHT, IN.		H_o	3.3		
CLASSIFICATION SAND, clayey (SC)					
LL	27	PL	17	PI	10
				G_s	
REMARKS		PROJECT Neches River			
		S-4			
		AREA			
		BORING NO. 82-1		SAMPLE NO. A-10628	
		DEPTH EL 7.5-10.0		DATE July 82	
UNCONFINED COMPRESSION TEST REPORT					

FAILURE SKETCHES



☒ CONTROLLED STRESS
☐ CONTROLLED STRAIN



TEST NO.		1			
TYPE OF SPECIMEN		Undist			
INITIAL	WATER CONTENT	w_o	73.2 %	%	%
	VOID RATIO	e_o			
	SATURATION	S_o	%	%	%
	DRY DENSITY, LB/CU FT	γ_d	53		
TIME TO FAILURE, MIN		t_f	12		
UNCONFINED COMPRESSIVE STRENGTH, T/SQ FT		q_u	.5		
UNDRAINED SHEAR STRENGTH, T/SQ FT		s_u	.2		
SENSITIVITY RATIO		S_t			
INITIAL SPECIMEN DIAMETER, IN		D_o	2.0		
INITIAL SPECIMEN HEIGHT, IN.		H_o	5.6		
CLASSIFICATION CLAY, sandy (CH)					
LL 109		PL 26		PI 83	G_s
REMARKS		PROJECT Neches River			
		S-11			
		AREA			
		BORING NO. 82-1		SAMPLE NO. A-10635	
		DEPTH EL 25.0-27.5		DATE July 82	
UNCONFINED COMPRESSION TEST REPORT					