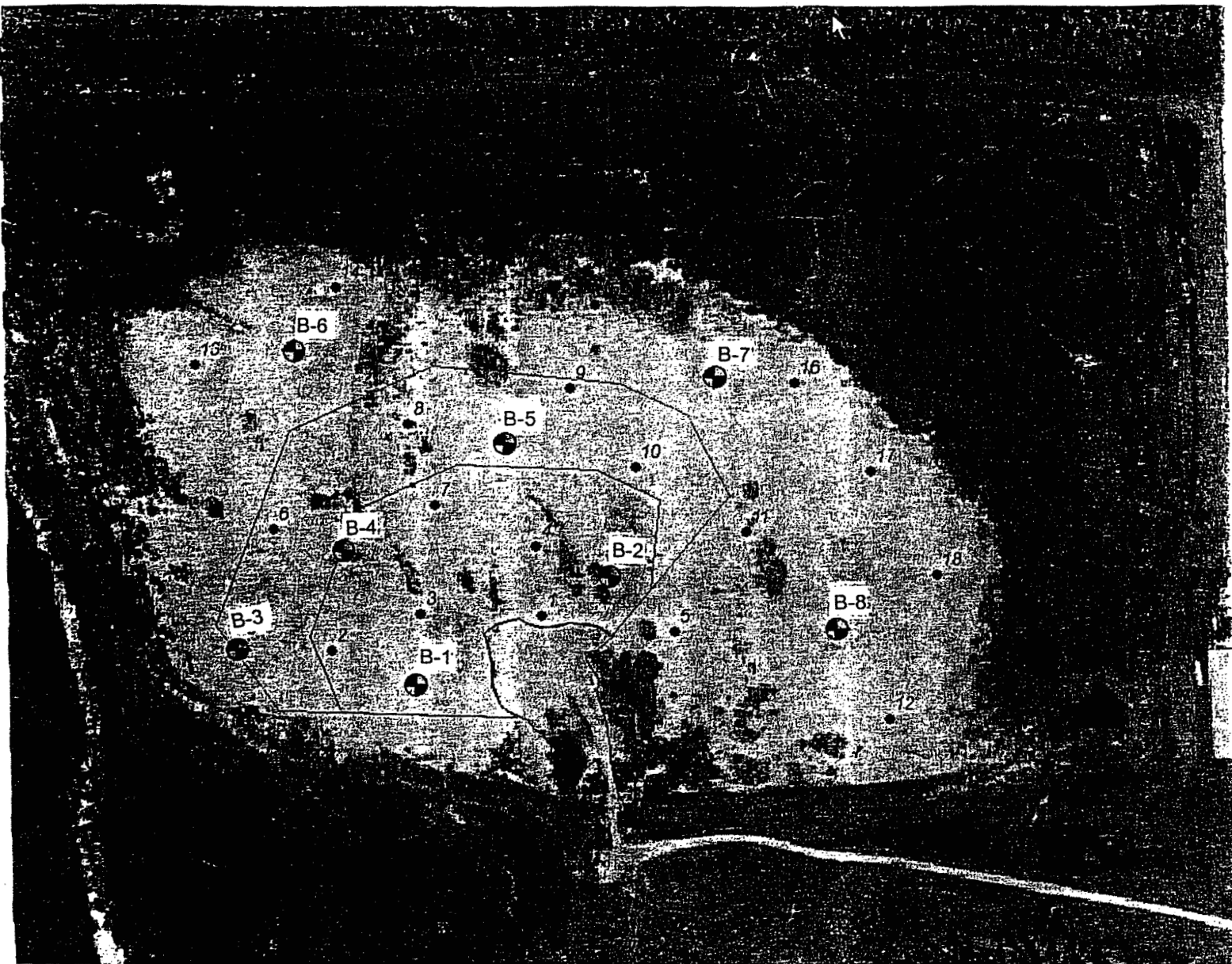




ENGINEERING AND TESTING
LABORATORY, INC.



BORING LOCATION PLAN

NO SCALE

October 7, 2004

Attn.: Mr. Hugo E. Bermudez, P.E.

RETL Job No.: C0400619

TOWN OF QUINTANA BEACH NOURISHMENT PROJECT

Port of Bay City

Bay City, Texas

ROCK ENGINEERING AND TESTING LABORATORY, INC.
4910 NEPTUNE STREET
CORPUS CHRISTI, TX 78405
(361) 883-4555

LOG OF BORING B-3

SHEET 1 of 1



Rock Engineering and Testing Laboratory, Inc.
4910 Neptune Street
Corpus Christi, Texas 78405
Telephone: (361) 883-4555
Fax: (361) 883-4711

CLIENT: Coast and Harbor Engineering, Inc.
PROJECT: Prop. Quintana Beach Nourishment
LOCATION: Port of Bay City, Texas
NUMBER: C0400619

DATE(S) DRILLED: 9/8/04 - 9/8/04

DRILLING METHOD(S):

Hollow Stem Auger

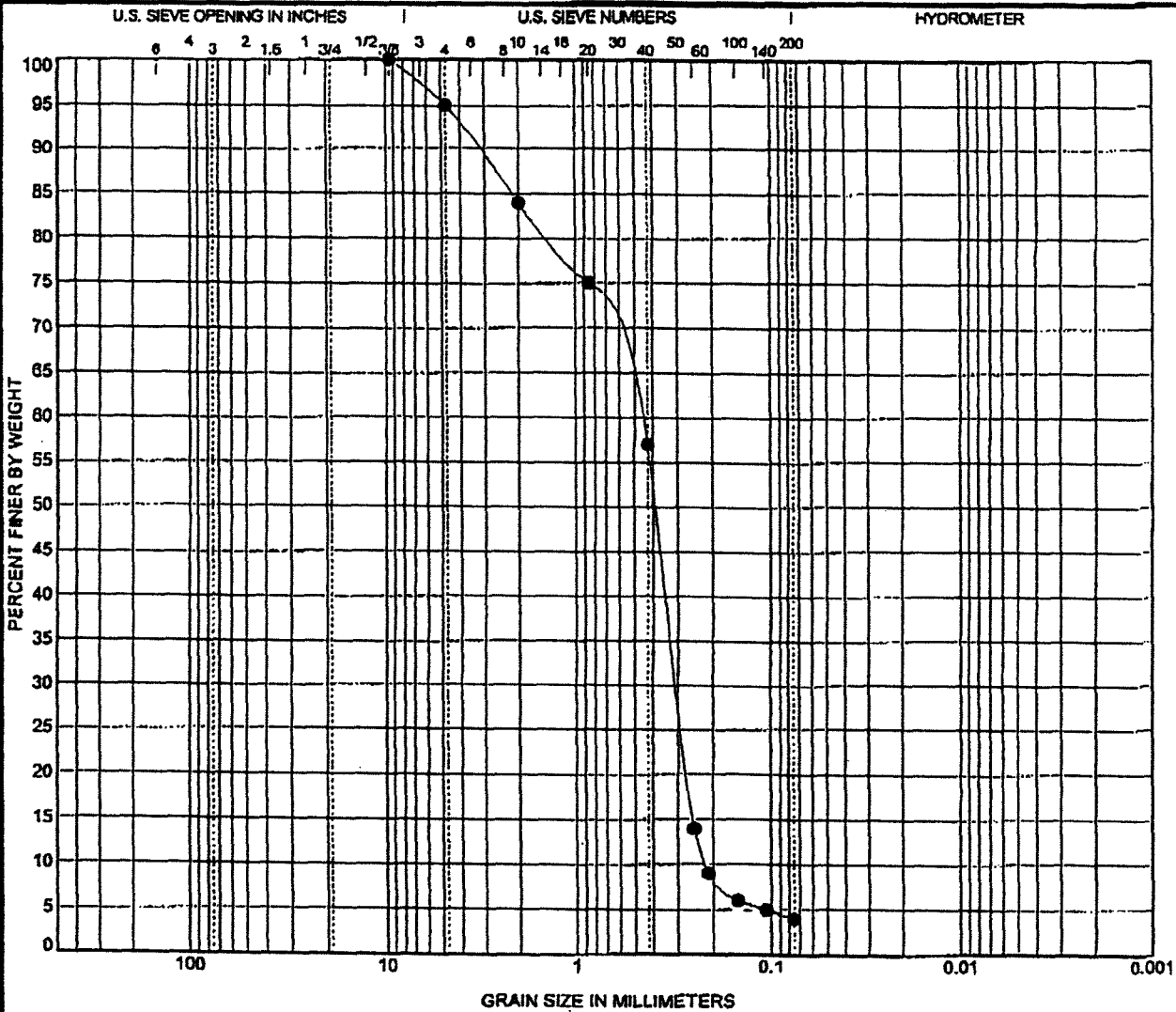
GROUNDWATER INFORMATION:

Groundwater (GW) at 15' during drilling operations.

SURFACE ELEVATION: N/A

DESCRIPTION OF STRATUM

FIELD DATA										LABORATORY DATA					DATE(S) DRILLED: 9/8/04 - 9/8/04	
SOIL SYMBOL	DEPTH (FT)	SAMPLE NUMBER	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: TONS/SQ FT PERCENT RECOVERY/ ROCK QUALITY DESIGNATION	MOISTURE CONTENT (%)	ATTERBERG LIMITS			DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ.FT)	MINUS NO. 200 SIEVE (%)	DRILLING METHOD(S): Hollow Stem Auger				
						LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX				GROUNDWATER INFORMATION: Groundwater (GW) at 15' during drilling operations.				
						LL	PL	PI				SURFACE ELEVATION: N/A				
												DESCRIPTION OF STRATUM				
	5	SS S-1	X	N= 13	3						4	<u>POORLY GRADED SAND</u> , reddish yellow (7.5YR 6/6), dry, medium. (SP)				
		SS S-2	X	N= 13	3							Same as above, reddish yellow (7.5YR 6/6).				
		SS S-3	X	N= 13	4						2	Same as above, reddish yellow (7.5YR 6/6). (SP)				
	10	SS S-4	X	N= 17	3							<u>POORLY GRADED SAND</u> , reddish yellow (7.5YR 6/6), dry, medium.				
		SS S-5	X	N= 8	3							Same as above, loose.				
	15	SS S-6	X	N= 3	13						9	Same as above, with silt and clay, light brown (7.5YR 6/4), moist, very loose. (SP-SM/SC)				
	20	SS S-8	X	N= 5	28							<u>FAT CLAY</u> , brown (7.5YR 5/4), moist, firm.				
												Boring was terminated at a depth of 20-feet.				
N - STANDARD PENETRATION TEST RESISTANCE P - POCKET PENETROMETER RESISTANCE T - POCKET TORVANE SHEAR STRENGTH												REMARKS: Boring location and depth was determined by Coast and Harbor Engineering, Inc. and boring was performed by Envirocore, a drilling sub-contractor to RETL.				



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● B-3 1.0	POORLY GRADED SAND(SP)				0.89	2.18

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● B-3 1.0	9.5	0.477	0.305	0.219	5.0	91.0	4.0	



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GRAIN SIZE DISTRIBUTION

Project: Prop. Quintana Beach Nourishment
 Location: Port of Bay City, Texas
 Number: C0400619

US GRAIN SIZE C04180PJ US LAB GDT 11/20/04

