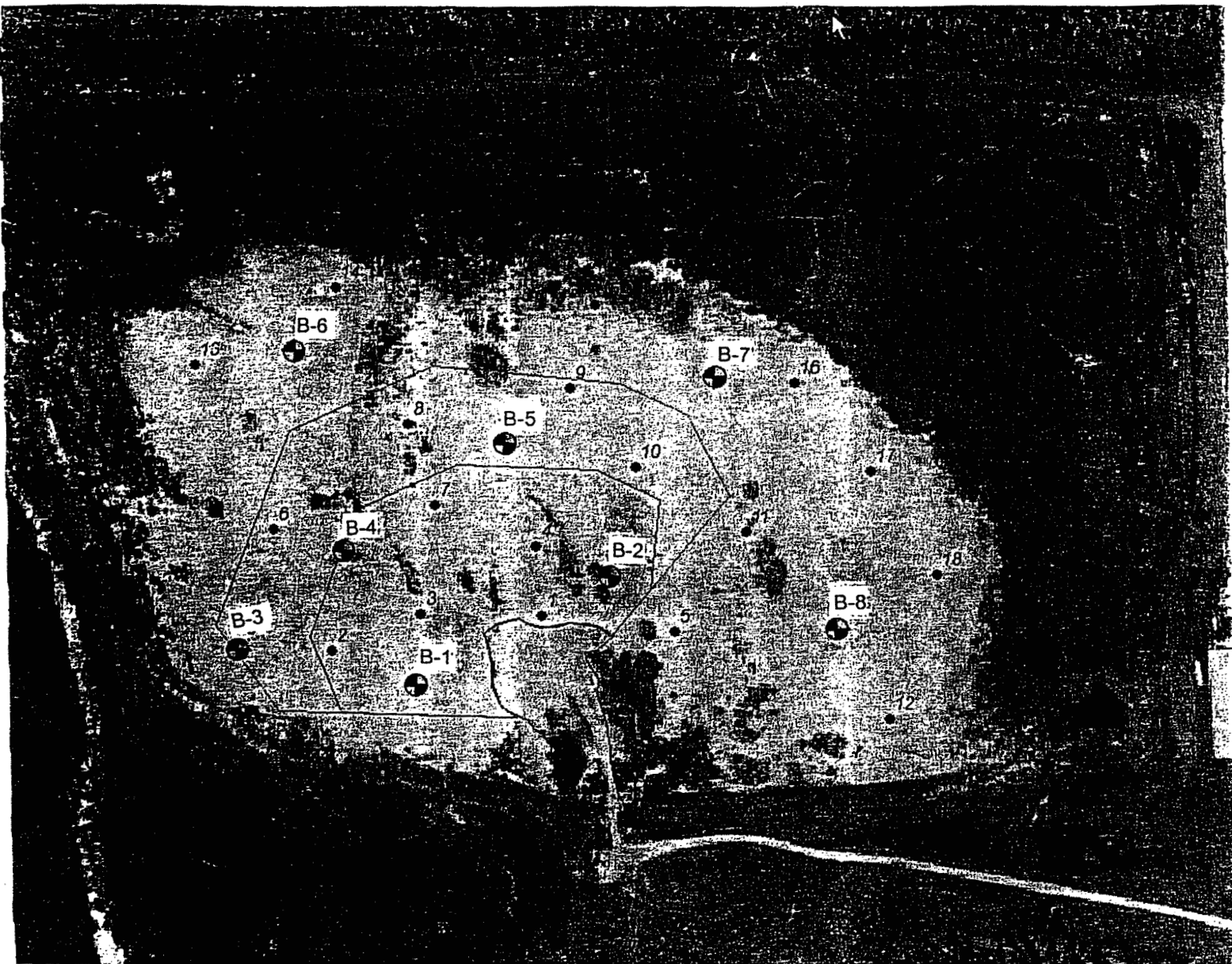




ENGINEERING AND TESTING
LABORATORY, INC.



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



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

FIELD DATA					LABORATORY DATA						
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 (%)
						LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX			
						LL	PL	PI			
		SS S-1		N= 9	3						5
	5	SS S-2		N= 6	3						
		SS S-3		N= 13	3						2
	10	SS S-4		N= 19	6						
		SS S-5		N= 6	9						
	15	SS S-6		N= 4	36						61

DRILLING METHOD(S):

Hollow Stem Auger

GROUNDWATER INFORMATION:

Groundwater (GW) was not noted during drilling or measured upon completion of drilling operations.

SURFACE ELEVATION: N/A

DESCRIPTION OF STRATUM

POORLY GRADED SAND, with clay and silt, reddish yellow (7.5YR 6/6), moist, loose. (SP-SM/SC)

Same as above, reddish yellow (7.5YR 6/6).

Same as above, reddish yellow (7.5YR 6/6), medium. (SP)

POORLY GRADED SAND, reddish yellow (7.5YR 6/6), moist, medium.

Same as above, light brown (7.5YR 6/4), loose.

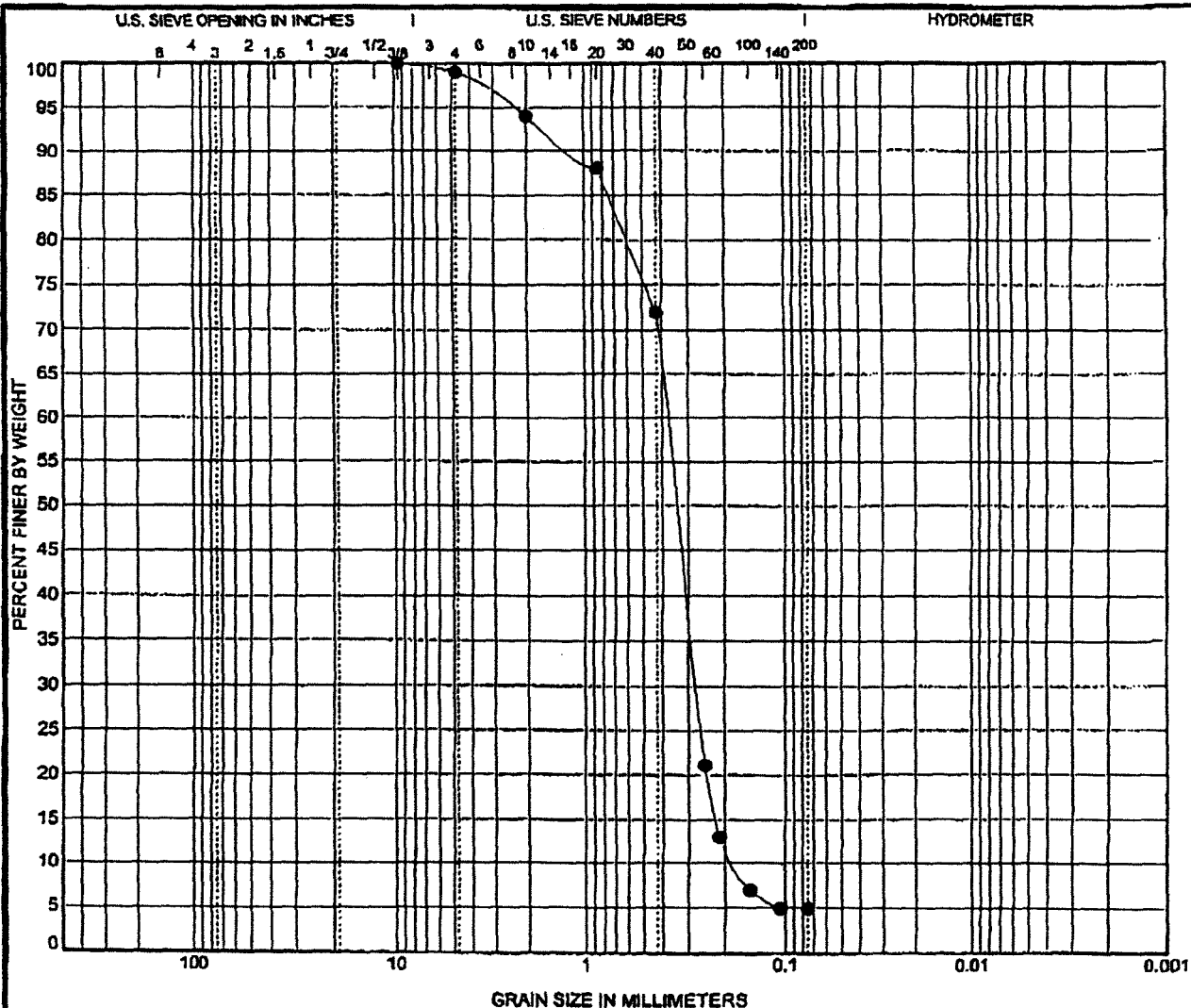
SANDY FAT CLAY, pinkish gray (7.5 6/2), moist, firm.

Boring was terminated at a depth of 15-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-8 1.0					1.13	2.10

[illegible]

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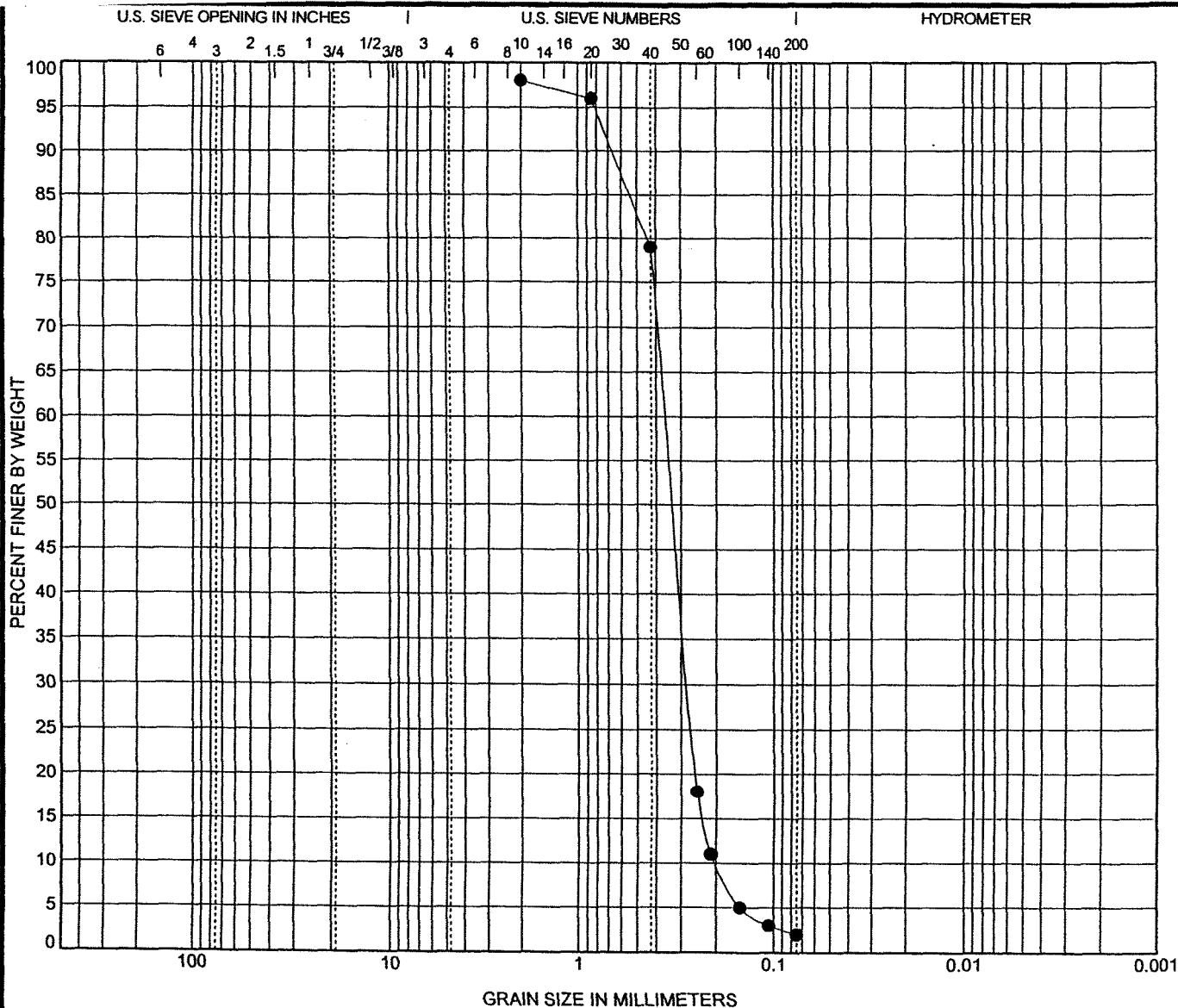
GRAIN SIZE DISTRIBUTION

Project: Prop. Quintana Beach Nourishment

Location: Port of Bay City, Texas

Number: C0400619

US GRAIN SIZE C0439.CPJ US LAB.GDT 11:20A



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● B-8 6.0	POORLY GRADED SAND(SP)				1.07	1.80

Specimen Identification	D 100	D 60	D 30	D 10	%Gravel	%Sand	%Silt	%Clay
● B-8 6.0	2	0.36	0.278	0.2	0.0	96.0	2.0	



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GRAIN SIZE DISTRIBUTION

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

U.S. GRAIN SIZE C04619.GPJ US LAB.GDT 9/23/04

