

LOG OF BORING B-4

SHEET 1 of 1



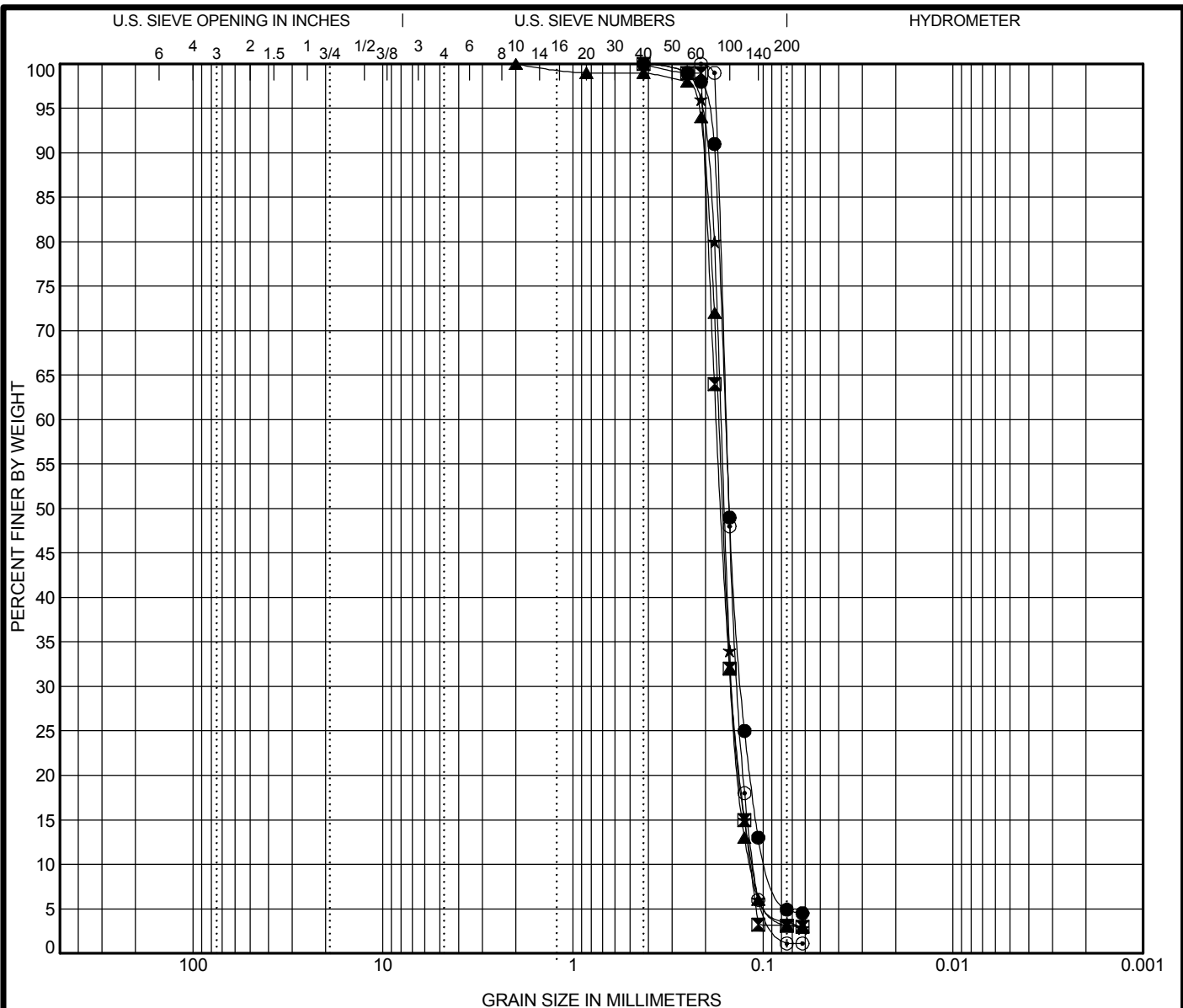
Rock Engineering and Testing Laboratory, Inc.
4910 Neptune Street
Corpus Christi, Texas 78405
Telephone: (361) 883-4555
Fax: (361) 883-4711

CLIENT: Coast and Harbor Engineering, Inc.
PROJECT: Proposed Cedar Bayou Project
LOCATION: Aransas County, Texas
NUMBER: G106179

DATE(S) DRILLED: 3/14/06 - 3/15/06

	FIELD DATA					LABORATORY DATA							DRILLING METHOD(S): Vibracore Samples
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 (%)	GROUNDWATER INFORMATION: N/A	
						LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX				SURFACE ELEVATION: N/A	
						LL	PL	PI				DESCRIPTION OF STRATUM	
	1	S-1			0						1	<u>POORLY GRADED SAND</u> , light brown, dry.	
												Same as above.	
	2	S-2			0							Same as above.	
	3	S-3			0							<u>POORLY GRADED SAND</u> , brown, dry.	
												Same as above.	
	4	S-4			0							Same as above.	
	5	S-5			8							Same as above, moist.	
6	S-6			18						1	<u>POORLY GRADED SAND</u> , greenish gray, moist.		
											Same as above.		
7	S-7			27							Same as above.		
8	S-8			24							Same as above.		
9	S-9			27							3	<u>POORLY GRADED SAND</u> , greenish gray, moist.	
10	S-10			26									
												Boring terminated at a depth of 10' below the ground surface.	
N - STANDARD PENETRATION TEST RESISTANCE P - POCKET PENETROMETER RESISTANCE T - POCKET TORVANE SHEAR STRENGTH												REMARKS: Soil Sampling perfomred by RETL at N28.0677 W96.8486	

LOG OF BORING G106179.GPJ ROCK ETL.GDT 3/30/06



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification		Classification				LL	PL	PI	Cc	Cu
●	B-2	8.0	POORLY GRADED SAND(SP)						1.15	1.69
⊠	B-3	1.0	POORLY GRADED SAND(SP)						1.05	1.51
▲	B-3	4.0	POORLY GRADED SAND(SP)						1.09	1.46
★	B-3	7.0	POORLY GRADED SAND(SP)						1.10	1.46
⊙	B-4	0.0	POORLY GRADED SAND(SP)						1.03	1.40
Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
●	B-2	8.0	0.425	0.157	0.13	0.093	0.0	95.1	4.9	
⊠	B-3	1.0	0.425	0.176	0.147	0.117	0.0	96.9	3.1	
▲	B-3	4.0	2	0.17	0.147	0.116	0.0	96.9	3.1	
★	B-3	7.0	0.425	0.166	0.144	0.114	0.0	96.6	3.4	
⊙	B-4	0.0	0.212	0.157	0.134	0.112	0.0	98.9	1.1	

GRAIN SIZE DISTRIBUTION

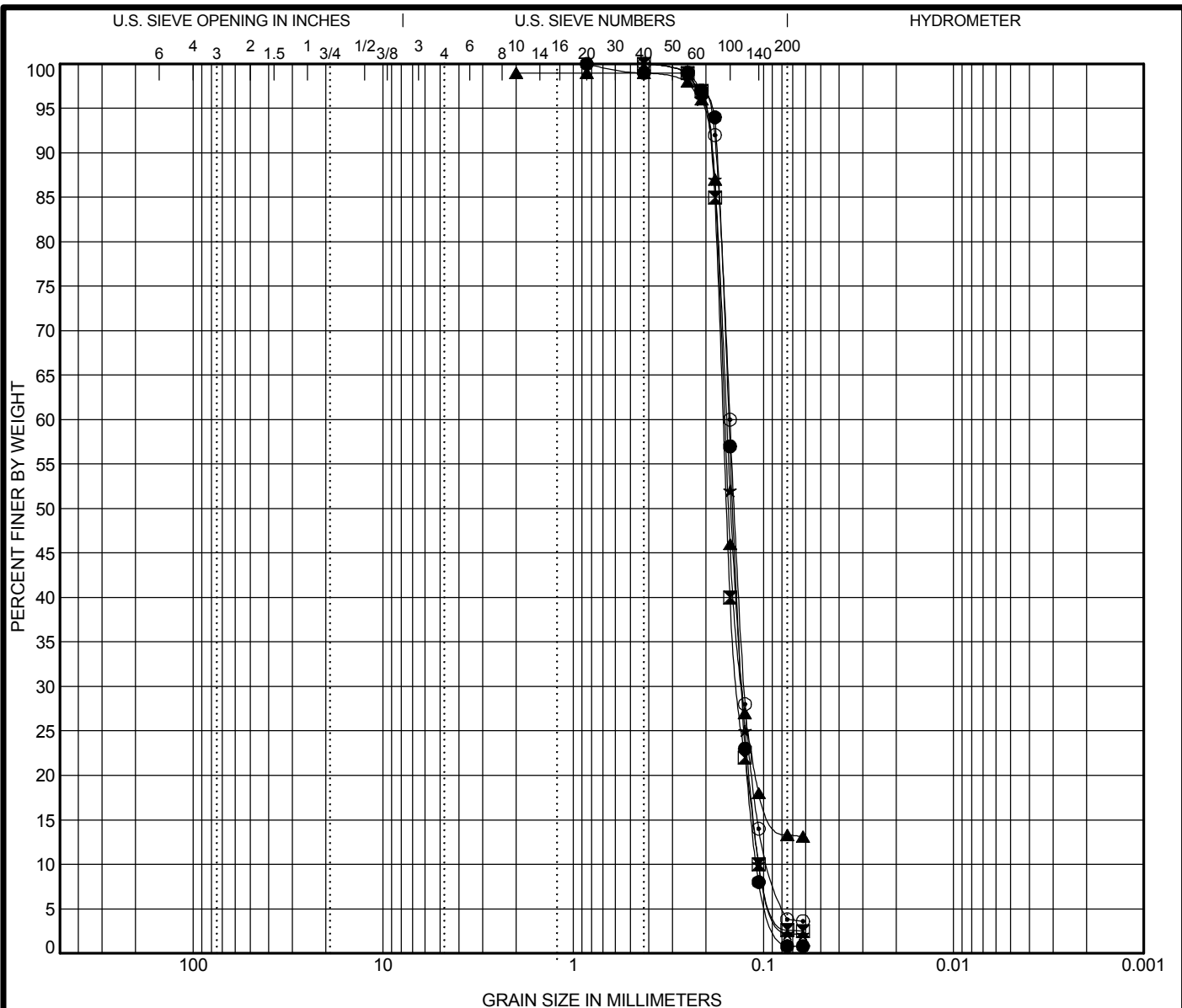
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification		Classification				LL	PL	PI	Cc	Cu
●	B-4	5.0	POORLY GRADED SAND(SP)						1.02	1.40
☒	B-4	8.0	POORLY GRADED SAND(SP)						1.07	1.53
▲	B-5	1.0								
★	B-5	5.0	POORLY GRADED SAND(SP)						1.01	1.48
⊙	B-6	1.0	POORLY GRADED SAND(SP)						1.15	1.62
Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
●	B-4	5.0	0.85	0.152	0.13	0.108	0.0	99.2	0.8	
☒	B-4	8.0	0.425	0.163	0.136	0.106	0.0	97.4	2.6	
▲	B-5	1.0	2	0.16	0.129		0.0	85.7	13.3	
★	B-5	5.0	0.425	0.156	0.129	0.106	0.0	97.8	2.2	
⊙	B-6	1.0	0.425	0.15	0.126	0.093	0.0	96.2	3.8	

GRAIN SIZE DISTRIBUTION

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March 30, 2006

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

RETL Job No.: G106179

PROPOSED CEDAR PASS PROJECT

San Jose & Matagorda Island

Aransas County, Texas

SIEVE SIZE	B-4 0-1'	B-4 5'-6'	B-4 8'-9'	B-5 1'-2'	B-5 5'-6'	B-6 1'-2'	B-6 6'-7'	B-6 7'-8'
#10	100	100	100	100	100	100	100	100
#20	100	100	100	100	100	100	100	100
#40	100	99	100	100	100	100	100	100
#60	100	99	99	99	99	99	99	99
#70	100	97	97	96	96	97	96	96
#80	99	94	85	87	87	92	86	87
#100	48	57	40	49	52	60	43	51
#120	18	23	22	21	25	28	24	29
#140	6	8	10	9	10	14	11	13
#200	1.1	0.8	2.6	2.4	2.2	3.8	2.9	3.5
#230	1.1	0.8	2.5	2.2	2.1	3.6	2.7	3.2

SIEVE SIZE	B-7 0-1'	B-7 4'-5'	B-7 7'-8'	B-8 1'-2'	B-8 5'-6'	B-8 8'-9'
#10	97	100	100	100	100	100
#20	95	99	99	99	100	100
#40	94	99	99	99	99	99
#60	92	97	98	97	98	99
#70	88	87	94	86	93	98
#80	74	67	84	62	86	95
#100	36	26	51	26	57	60
#120	15	10	27	11	31	33
#140	6	4	12	5	18	20
#200	0.9	0.8	3.3	2.8	9.7	12.1
#230	0.8	0.8	2.9	2.8	9.5	11.7

SIEVE SIZE	GB-1 3'	GB-2 1'	GB-2 2'	GB-3 0	GB-3 1'
#10	100	100	100	100	100
#20	100	100	100	100	100
#40	100	100	100	100	100
#60	99	100	99	99	99
#70	96	99	97	98	97
#80	85	96	88	93	88
#100	45	50	42	60	45
#120	22	23	20	26	17
#140	10	11	9	9	5
#200	3.0	4.5	3.1	1.9	1.0
#230	3.0	4.4	3.0	1.8	1.0