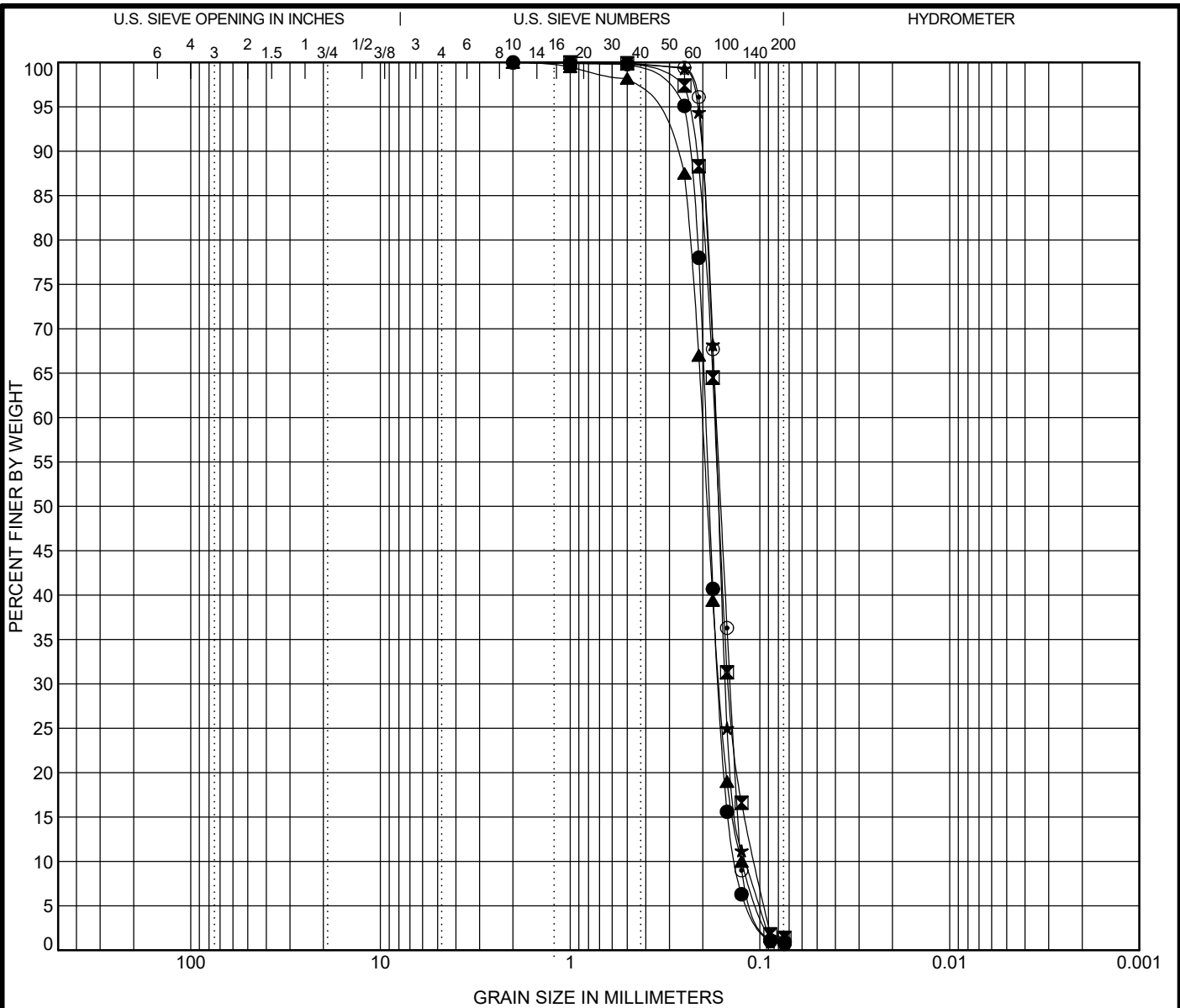


PROJECT NAME: Beach Sediment Analysis
 CLIENT: HDR, Inc.
 SAMPLE ID: SPI-T4
 LOCATION: South Padre Island


SOUTH PADRE ISLAND						
Transect 4						
ASTM MESH	PERCENT SHELL BY WEIGHT (BASED ON #10 SIEVE)					
	Toe of Dune	Mid Berm	Swash Zone	First Bar	Trough	Second Bar
RETAINED BY #10	0.0	0.4	0.0	0.2	0.6	0.0
ASTM MESH	% FINER BY WEIGHT AFTER REMOVING SHELL					
	Toe of Dune	Mid Berm	Swash Zone	First Bar	Trough	Second Bar
#10	100.0	100.0	100.0	100.0	100.0	100.0
#18	99.9	99.9	100.0	99.6	99.9	99.6
#35	99.9	99.8	99.9	99.0	98.8	98.7
#60	99.3	99.4	95.5	90.6	96.3	90.5
#70	94.4	96.1	81.9	69.9	82.3	71.6
#80	68.2	67.7	48.5	35.0	55.7	39.6
#100	25.0	36.3	18.0	13.4	24.2	16.5
#120	11.2	9.0	7.9	5.9	12.3	7.7
#170	0.9	1.0	1.4	1.0	2.0	1.6
#200	0.7	0.7	1.3	0.9	1.8	1.5
STATISTICS (EXCLUDING SHELL)						
MEDIAN GRAIN SIZE (mm)	0.165	0.161	0.178	0.190	0.172	0.187
MEAN GRAIN SIZE (mm)	0.165	0.162	0.179	0.193	0.173	0.190
SORTING (σ)	0.322	0.309	0.348	0.428	0.398	0.462
Munsell Color	Very Pale Brown	Very Pale Brown	Yellowish Brown	Yellowish Brown	Yellowish Brown	Yellowish Brown



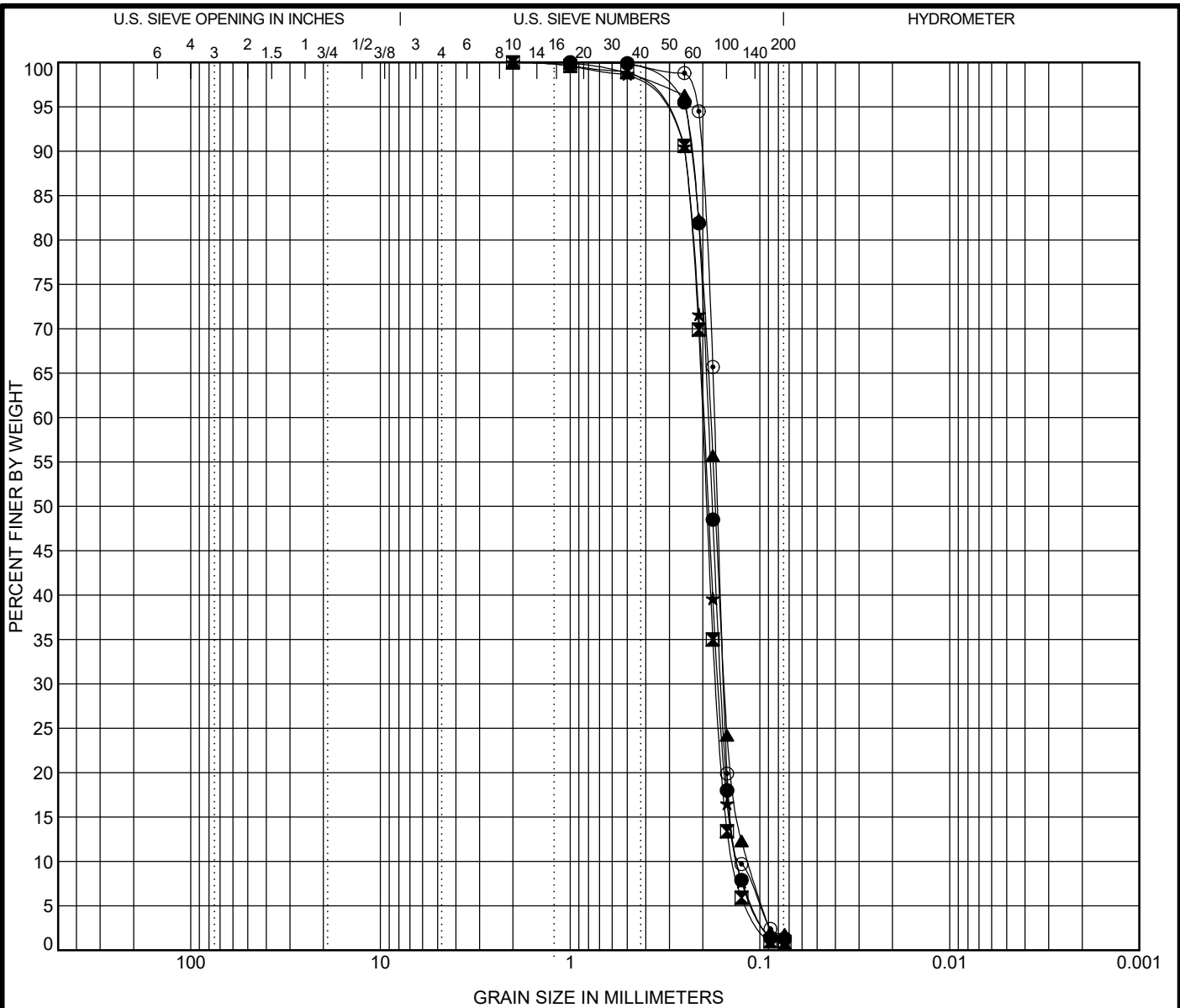
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen ID	Depth	Classification	LL	PL	PI	Cc	Cu
● SPI-T3-First Bar	0.0'	POORLY GRADED SAND				1.04	1.44
☒ SPI-T3-Trough	0.0'	POORLY GRADED SAND				1.16	1.62
▲ SPI-T3-Second Bar	0.0'	POORLY GRADED SAND				1.06	1.61
★ SPI-T4-Toe of Dune	0.0'	POORLY GRADED SAND				1.12	1.43
◎ SPI-T4-Mid Berm	0.0'	POORLY GRADED SAND				0.96	1.35

Specimen ID	Depth	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SPI-T3-First Bar	0.0'	2	0.193	0.164	0.134	0.0			
☒ SPI-T3-Trough	0.0'	1	0.173	0.147	0.107	0.0			
▲ SPI-T3-Second Bar	0.0'	2	0.201	0.163	0.125	0.0			
★ SPI-T4-Toe of Dune	0.0'	2	0.171	0.152	0.12	0.0			
◎ SPI-T4-Mid Berm	0.0'	2	0.17	0.143	0.126	0.0			

 <p>Rock Engineering & Testing Lab. LLC. 6817 Leopard Street Corpus Christi, Texas 78409 Telephone: 361-883-4555 Fax: 361-883-4711</p>	GRAIN SIZE DISTRIBUTION	
	Project: Beach Sediment Analysis	
	Location: South Padre Island, Texas	
Number: G122361		

US GRAIN SIZE 12 G122361 SPI.GPJ US LAB.GDT 8/22/22



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen ID	Depth	Classification	LL	PL	PI	Cc	Cu
● SPI-T4-Swash Zone	0.0'	POORLY GRADED SAND				1.04	1.45
☒ SPI-T4-First Bar	0.0'	POORLY GRADED SAND				1.05	1.45
▲ SPI-T4-Trough	0.0'	POORLY GRADED SAND				1.12	1.57
★ SPI-T4-Second Bar	0.0'	POORLY GRADED SAND				1.05	1.51
◎ SPI-T5-Toe of Dune	0.0'	POORLY GRADED SAND				1.10	1.38

Specimen ID	Depth	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SPI-T4-Swash Zone	0.0'	1	0.188	0.159	0.13	0.0			
☒ SPI-T4-First Bar	0.0'	2	0.2	0.17	0.138	0.0			
▲ SPI-T4-Trough	0.0'	2	0.182	0.154	0.116	0.0			
★ SPI-T4-Second Bar	0.0'	2	0.197	0.165	0.131	0.0			
◎ SPI-T5-Toe of Dune	0.0'	1	0.173	0.155	0.126	0.0			

US GRAIN SIZE 12 G122361 SPI.GPJ US LAB.GDT 8/22/22



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