



Aptim Environmental & Infrastructure, LLC

6401 Congress Avenue, Suite 140

Boca Raton, Florida 33487

Phone # 1-561-391-8102

Legend for Geotechnical Data

Grain Size Scale for Sediments

Unified Soil Classification System (USCS) (ASTM D2487/2488)		APTIM Standard Sieve Stack		
		Sieve Number	Size (phi)	Size (mm)
Gravel	Coarse Gravel	3/4	-4.25	19.03
	Fine Gravel	5/8	-4.00	16.00
		7/16	-3.50	11.20
		5/16	-3.00	8.00
		3 1/2	-2.50	5.60
		4	-2.25	4.75
Sand	Coarse Sand	5	-2.00	4.00
		7	-1.50	2.80
		10	-1.00	2.00
	Medium Sand	14	-0.50	1.40
		18	0.00	1.00
		25	0.50	0.71
		35	1.00	0.50
	Fine Sand	45	1.50	0.36
		60	2.00	0.25
		80	2.50	0.18
		120	3.00	0.13
		170	3.50	0.09
		200	3.75	0.08
Fines	Silt/Clay	230	4.00	0.06

Proportional Definition of Descriptive Terms

<u>Descriptive Term</u>	<u>Range of Proportions</u>
Sandy, gravelly, etc.	35 % to 50 %
Some	20 % to 35 %
Little	10 % to 20 %
Trace	1 % to 10 %

Consistency of Cohesive Soils

Description	Consistency Index	Approximate Undrained Shear Strength (kPa)	Field Identification
Hard		Over 300	Indented with difficulty by thumbnail, brittle.
Very Stiff	>1	150-300	Readily indented by thumbnail, still very tough.
Stiff	0.75-1	75-150	Readily indented by thumb but penetrated only with difficulty. Cannot be moulded in the fingers.
Firm	0.5-0.75	40-75	Can be penetrated several centimeters by thumb with moderate effort and moulded in fingers by strong pressure.
Soft	< 0.5	20-40	Easily penetrated several centimeters by thumb, easily moulded.
Very Soft		Less than 20	Easily penetrated several centimeters by fist, exudes between fingers when squeezed in fist.

Source: *Engineering Properties of Soils and Rocks, Fourth Edition by Fred G. Bell*

USCS Classifications

Refers to the Army Corps of Engineers Unified Soils Classification System. Class types are defined primarily by grain size, sorting and percent of material passing the #200 sieve. Classification of materials on the core logs based on visual field examinations are identified on the core logs under the Classification of Materials Description. Classifications based on laboratory sieve analyses are identified on the core logs in the Legend and under Remarks.

GW		Well graded gravels or gravel-sand mixtures, little or no fines	ML		Inorganic silts and very fine sands, rock flour, sandy silts or clayey silts with slight plasticity
GP		Poorly graded gravels or gravel-sand mixtures, w/ little or no fines	MH		Inorganic silts, micaceous or diatomaceous fine sandy or silty soil, elastic silts
GM		Silty gravels, gravel-sand-silt mixtures	OL		Organic silts and organic silt-clays of low plasticity
GC		Clayey gravels, gravel-sand-clay mixtures	OH		Organic clays of medium to high plasticity, organic silts
SW		Well graded sands or gravelly sands, little or no fines	CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
SP		Poorly graded sands or gravelly sands, little or no fines	CH		Inorganic clays of high plasticity, fat clays
SM		Silty sands, sand-silt mixtures	PT		Peat and other highly organic soils
SC		Clayey sands, sand-clay mixtures	SP-SM		Poorly-graded silty sand
SW-SM		Well-graded silty sand	SM-SC		Silty clayey sand
GW-GM		Well-graded silty gravel	ML-CL		Inorganic silty lean clay
GM-GC		Clayey silty gravel			

Note: Information is after ACOE Atlantic Division Manual # 1110-1-1 titled *Engineering and Design Geotechnical Manual for Surface and Subsurface Investigations*

DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT TX GLO Region 1 Recon Geotechnical Sand Search Jefferson, Chambers, Galveston and Brazoria Co.			9. SIZE AND TYPE OF BIT 3.0 In.	
2. BORING DESIGNATION TXGLO1-VC-23-092			10. COORDINATE SYSTEM/DATUM Texas State Plane South	
3. DRILLING AGENCY APTIM			11. MANUFACTURER'S DESIGNATION OF DRILL APTIM SEAS VC-700 Vibracore	
4. NAME OF DRILLER APTIM			☐ AUTO HAMMER ☐ MANUAL HAMMER	
5. DIRECTION OF BORING ☒ VERTICAL ☐ INCLINED			12. TOTAL SAMPLES 4	
6. THICKNESS OF OVERBURDEN 0.0 Ft.			13. TOTAL NUMBER CORE BOXES	
7. DEPTH DRILLED INTO ROCK 0.0 Ft.			14. ELEVATION GROUND WATER	
8. TOTAL DEPTH OF BORING 19.4 Ft.			15. DATE BORING 10-18-23	
			16. ELEVATION TOP OF BORING -59.9 Ft.	
			17. TOTAL RECOVERY FOR BORING 17.9 Ft.	
			18. SIGNATURE AND TITLE OF INSPECTOR BF	

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS The USCS classification system defines silt as the percent passing the No.200 (0.075 mm) sieve
-59.9	0.0					
-60.8	0.9		Sandy LEAN CLAY, soft, trace shell hash, trace silt, sand component is fine grained quartz, sand distributed in pockets typically up to 1.0", sand increases with depth in layer, silt distributed in laminae and sand pockets, shell hash distributed in sand pockets, (2.0" x 3.0") sand pocket @ 0.4', color is mottled gray (5Y-5/1) and dark gray (5Y-4/1), (CL)			
-67.3	7.4		SAND, fine grained, quartz, little clay, trace shell fragments, trace shell hash, trace silt, shell fragments are bivalve fragments up to 0.25", silt distributed in laminae, 1.5" clay pocket @ 1.1', increased shell hash between 1.2' & 2.1', clay distributed between 3.2' & 3.9', (1.0" x 3.0") clay pocket @ 4.2', 3.0" clay pocket @ 4.3', (0.5" x 3.0") clay pocket @ 7.3', color is mottled brown (7.5YR-4/2), dark grayish brown (2.5Y-4/2), dark yellowish brown (10YR-4/4) and pale brown (10YR-6/3), (SW).		1	Sample #1, Depth = 5.5' Mean (mm): 0.15, Phi Sorting: 0.44 Fines (230): 6.58% Fines (200): 8.25% (SP-SM)
-73.1	13.2		SAND, fine grained, quartz, trace clay, trace organics, trace silt, organics distributed in laminae, flaser bedding throughout layer, (1.0" x 3.0") clay pocket @ 8.0', clay laminae @ 11.0', 11.3', 11.7' and 12.2', increased organics between 12.5' & 12.7', (2.0" x 3.0") clay pocket @ 12.7', dark grayish brown (10YR-4/2), (SP-SM).		2	Sample #2, Depth = 10.2' Mean (mm): 0.15, Phi Sorting: 0.40 Fines (230): 4.35% Fines (200): 5.99% (SP-SM)
-73.4	13.5		FAT CLAY, firm, brown (7.5YR-4/2), (CH).		T1	Sample #T1, Depth = 13.3' Ave. Field Vane (tsf): 0.05
-73.8	13.9		SAND, fine to medium grained, quartz, little silt, trace organics, trace shell hash, silt distributed in laminae, organics distributed in laminae, very dark grayish brown (2.5Y-3/2), (SM).		3	Sample #3, Depth = 13.7' Mean (mm): 0.17, Phi Sorting: 0.66 Fines (230): 14.52% Fines (200): 16.34% (SM)
-76.9	17.0		SAND, fine to medium grained, quartz, trace clay, trace shell fragments, trace shell hash, trace silt, trace whole shell, trace wood fragments, clay distributed in laminae, silt distributed in laminae, shell fragments are bivalve fragments up to 0.25", (0.25" x 0.50") whole bivalve @ 15.1', (0.25" x 1.0") wood fragment @ 15.7', gray (2.5Y-5/1), (SW).		4	Sample #4, Depth = 15.5' Mean (mm): 0.22, Phi Sorting: 0.49 Fines (230): 3.00% Fines (200): 3.46% (SP)
-77.8	17.9		FAT CLAY, soft, Bit sample from 17.4' to 17.9', color is mottled brown (7.5YR-4/2) and very dark grayish brown (2.5Y-3/2), (CH).		T2	Sample #T2, Depth = 17.2' Ave. Field Vane (tsf): 0.03
-79.3	19.4		No recovery.			
			End of Boring			

REGION 1 RECON GEOTECH GP.1 3/25/24

Texas General
Land Office

Texas GLO
Region 1
Geotechnical
Reconnaissance
Survey

TXGLO1-VC-23-092

Date Collected: 10/18/23
Top Elev. (ft NAVD88): -59.9
Bottom Elev. (ft NAVD88): -77.8
Core Length (ft): 17.9



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Granularmetric Report Depths and elevations based on measured values				 APTIM 6401 Congress Avenue, Suite 140 Boca Raton, FL 33487 ph (561) 391-8102			
Project Name: TX GLO Region 1 Recon Geotechnical Sand Search							
Sample Name: TXGLO1-VC-23-092 #1							
Analysis Date: 02-15-24							
Analyzed By: SM							
Easting (ft): 3,128,474		Northing (ft): 13,469,393		Coordinate System: Texas State Plane South		Elevation (ft): -65.4 NAVD88	
USCS: SP-SM		Munsell: Wet - 10YR-6/3 Dry - 10YR-6/4 Washed - 10YR-8/2		Comments:			
Dry Weight (g): 128.19	Wash Weight (g): 120.69	Pan Retained (g): 0.88	Sieve Loss (%): 0.05	Fines (%): #200 - 8.25 #230 - 6.58	Organics (%):	Carbonates (%):	Shell Hash (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00	
3.5	-2.50	5.66	0.00	0.00	0.00	0.00	
4	-2.25	4.76	0.00	0.00	0.00	0.00	
5	-2.00	4.00	0.00	0.00	0.00	0.00	
7	-1.50	2.83	0.00	0.00	0.00	0.00	
10	-1.00	2.00	0.00	0.00	0.00	0.00	
14	-0.50	1.41	0.02	0.02	0.02	0.02	
18	0.00	1.00	0.00	0.00	0.02	0.02	
25	0.50	0.71	0.01	0.01	0.03	0.03	
35	1.00	0.50	0.00	0.00	0.03	0.03	
45	1.50	0.35	0.01	0.01	0.04	0.04	
60	2.00	0.25	2.18	1.70	2.22	1.74	
80	2.50	0.18	28.29	22.07	30.51	23.81	
120	3.00	0.13	55.69	43.44	86.20	67.25	
170	3.50	0.09	26.30	20.52	112.50	87.77	
200	3.75	0.07	5.10	3.98	117.60	91.75	
230	4.00	0.06	2.14	1.67	119.74	93.42	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
	3.41	3.19	2.80	2.51	2.32	2.07	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	2.78	0.15	0.44	0.1	3.55		

Granularmetric Report				 APTIM 6401 Congress Avenue, Suite 140 Boca Raton, FL 33487 ph (561) 391-8102			
Depths and elevations based on measured values							
Project Name: TX GLO Region 1 Recon Geotechnical Sand Search							
Sample Name: TXGLO1-VC-23-092 #2							
Analysis Date: 02-15-24							
Analyzed By: SM							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
3,128,474		13,469,393		Texas State Plane South		-70.1 NAVD88	
USCS:		Munsell:		Comments:			
SP-SM		Wet - 10YR-4/2 Dry - 10YR-6/2 Washed - 10YR-8/1					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shell Hash (%):
123.26	118.50	0.58	0.02	#200 - 5.99 #230 - 4.35			
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00	
3.5	-2.50	5.66	0.00	0.00	0.00	0.00	
4	-2.25	4.76	0.00	0.00	0.00	0.00	
5	-2.00	4.00	0.00	0.00	0.00	0.00	
7	-1.50	2.83	0.00	0.00	0.00	0.00	
10	-1.00	2.00	0.00	0.00	0.00	0.00	
14	-0.50	1.41	0.00	0.00	0.00	0.00	
18	0.00	1.00	0.00	0.00	0.00	0.00	
25	0.50	0.71	0.00	0.00	0.00	0.00	
35	1.00	0.50	0.00	0.00	0.00	0.00	
45	1.50	0.35	0.01	0.01	0.01	0.01	
60	2.00	0.25	1.24	1.01	1.25	1.02	
80	2.50	0.18	26.37	21.39	27.62	22.41	
120	3.00	0.13	60.25	48.88	87.87	71.29	
170	3.50	0.09	24.81	20.13	112.68	91.42	
200	3.75	0.07	3.19	2.59	115.87	94.01	
230	4.00	0.06	2.02	1.64	117.89	95.65	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.90	3.32	3.09	2.78	2.53	2.35	2.09	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	2.78	0.15	0.4	0.27	3.05		

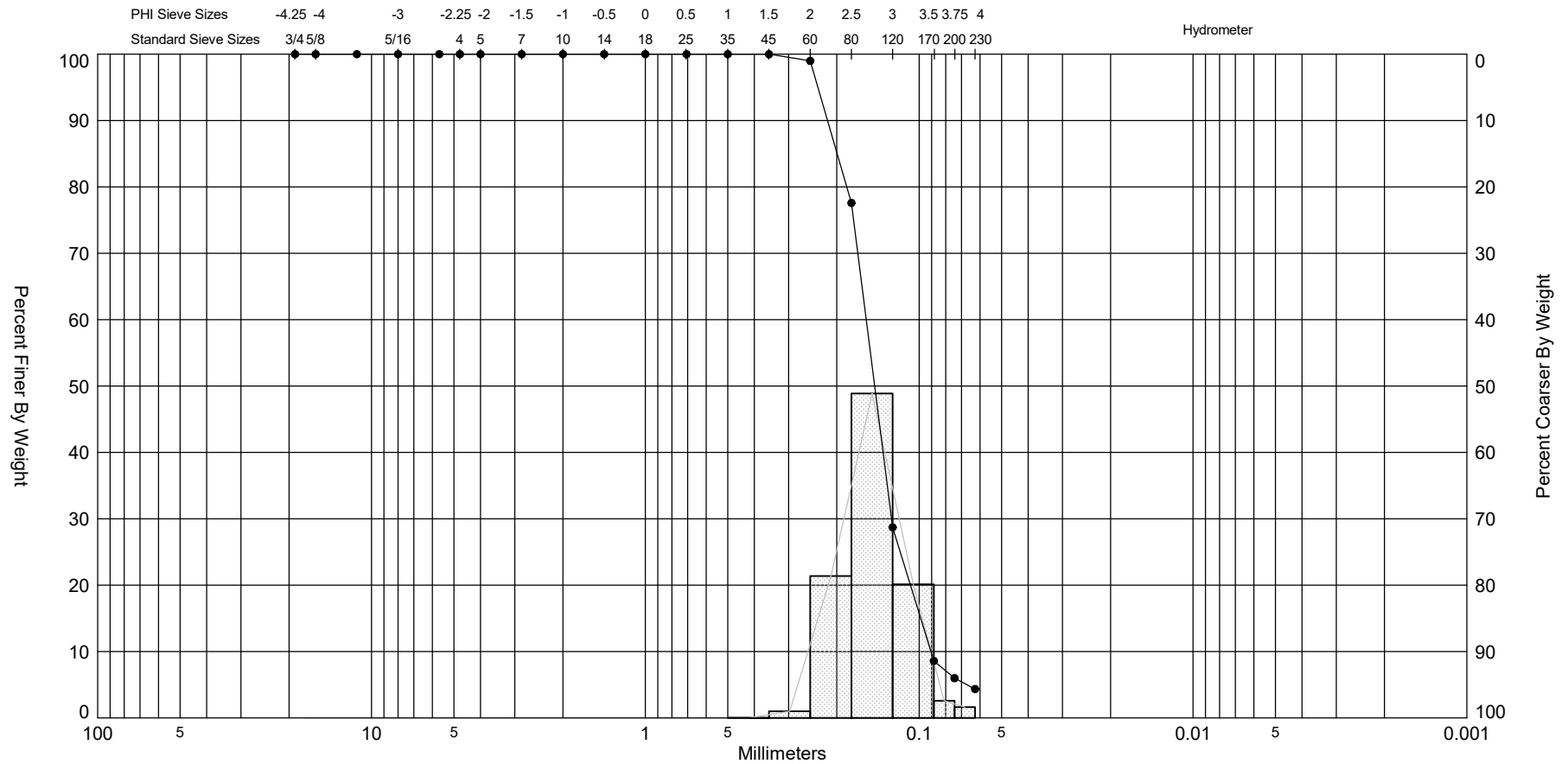
Granularmetric Report				 APTIM 6401 Congress Avenue, Suite 140 Boca Raton, FL 33487 ph (561) 391-8102			
Depths and elevations based on measured values							
Project Name: TX GLO Region 1 Recon Geotechnical Sand Search							
Sample Name: TXGLO1-VC-23-092 #3							
Analysis Date: 02-15-24							
Analyzed By: SM							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
3,128,474		13,469,393		Texas State Plane South		-73.6 NAVD88	
USCS:		Munsell:		Comments:			
SM		Wet - 2.5Y-3/2 Dry - 10YR-5/2 Washed - 10YR-7/1					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shell Hash (%):
110.94	95.90	1.07	0.00	#200 - 16.34 #230 - 14.52			
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00	
3.5	-2.50	5.66	0.00	0.00	0.00	0.00	
4	-2.25	4.76	0.00	0.00	0.00	0.00	
5	-2.00	4.00	0.00	0.00	0.00	0.00	
7	-1.50	2.83	0.04	0.04	0.04	0.04	
10	-1.00	2.00	0.04	0.04	0.08	0.08	
14	-0.50	1.41	0.09	0.08	0.17	0.16	
18	0.00	1.00	0.10	0.09	0.27	0.25	
25	0.50	0.71	0.31	0.28	0.58	0.53	
35	1.00	0.50	0.49	0.44	1.07	0.97	
45	1.50	0.35	1.30	1.17	2.37	2.14	
60	2.00	0.25	15.53	14.00	17.90	16.14	
80	2.50	0.18	24.56	22.14	42.46	38.28	
120	3.00	0.13	23.70	21.36	66.16	59.64	
170	3.50	0.09	22.38	20.17	88.54	79.81	
200	3.75	0.07	4.27	3.85	92.81	83.66	
230	4.00	0.06	2.02	1.82	94.83	85.48	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
	3.80	3.38	2.77	2.20	2.00	1.60	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	2.59	0.17	0.66	-0.59	4.67		

Granularmetric Report				 APTIM 6401 Congress Avenue, Suite 140 Boca Raton, FL 33487 ph (561) 391-8102			
Depths and elevations based on measured values							
Project Name: TX GLO Region 1 Recon Geotechnical Sand Search							
Sample Name: TXGLO1-VC-23-092 #4							
Analysis Date: 02-15-24							
Analyzed By: SM							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
3,128,474		13,469,393		Texas State Plane South		-75.4 NAVD88	
USCS:		Munsell:		Comments:			
SP		Wet - 2.5Y-5/1 Dry - 2.5Y-6/2 Washed - 2.5Y-7/1					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shell Hash (%):
119.62	116.14	0.08	0.03	#200 - 3.46 #230 - 3.00			
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00	
3.5	-2.50	5.66	0.00	0.00	0.00	0.00	
4	-2.25	4.76	0.00	0.00	0.00	0.00	
5	-2.00	4.00	0.00	0.00	0.00	0.00	
7	-1.50	2.83	0.05	0.04	0.05	0.04	
10	-1.00	2.00	0.12	0.10	0.17	0.14	
14	-0.50	1.41	0.09	0.08	0.26	0.22	
18	0.00	1.00	0.05	0.04	0.31	0.26	
25	0.50	0.71	0.10	0.08	0.41	0.34	
35	1.00	0.50	0.22	0.18	0.63	0.52	
45	1.50	0.35	1.71	1.43	2.34	1.95	
60	2.00	0.25	41.16	34.41	43.50	36.36	
80	2.50	0.18	50.93	42.58	94.43	78.94	
120	3.00	0.13	15.29	12.78	109.72	91.72	
170	3.50	0.09	4.96	4.15	114.68	95.87	
200	3.75	0.07	0.80	0.67	115.48	96.54	
230	4.00	0.06	0.55	0.46	116.03	97.00	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.40	2.70	2.45	2.16	1.83	1.70	1.54	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	2.17	0.22	0.49	-0.16	9.02		

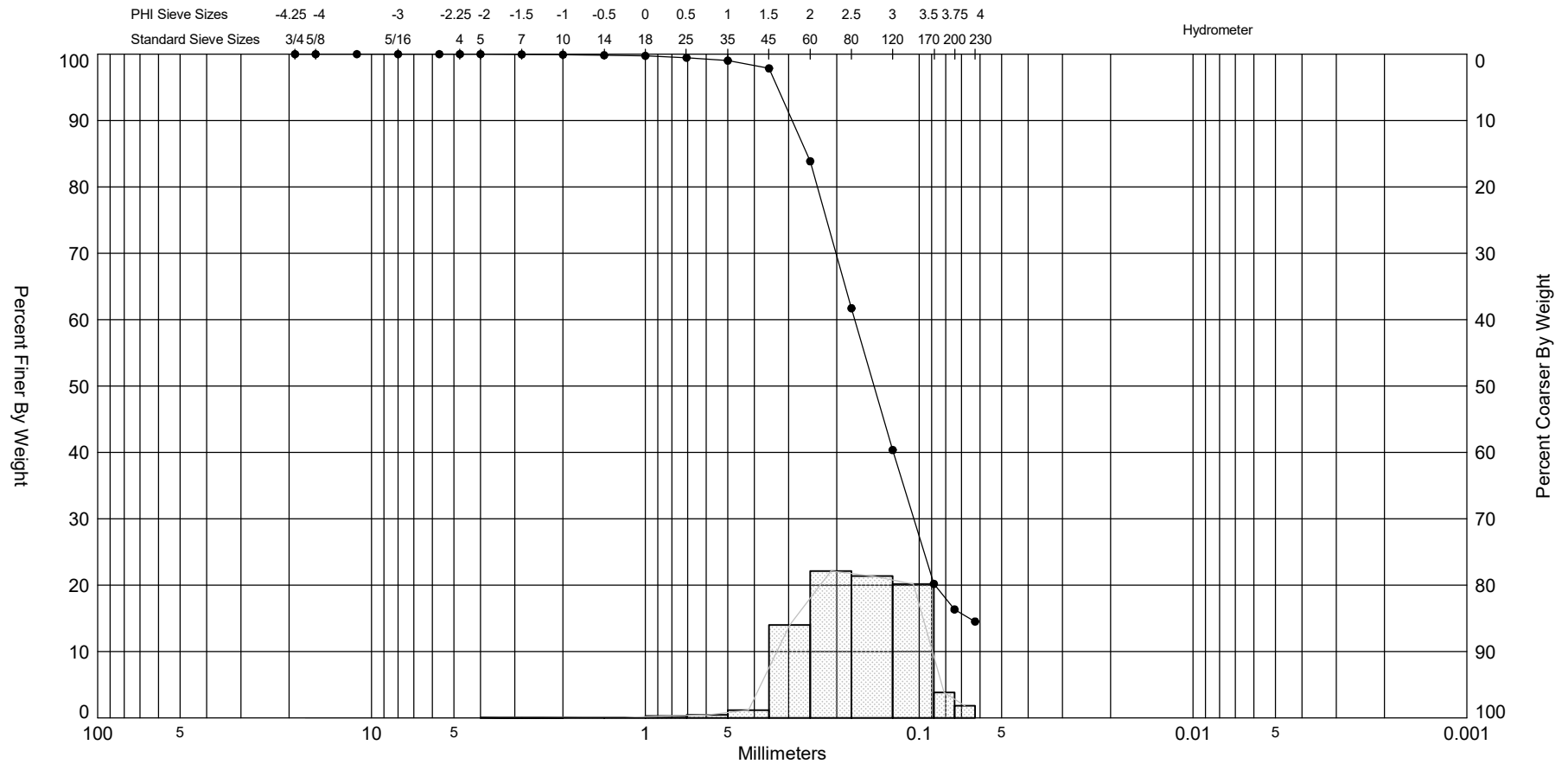


Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
TXGLO1-VC-23-092 #1		-65.4	SP-SM	#200 - 8.25 #230 - 6.58			2.8	2.78	0.1	3.55	0.44	Project Name:	TX GLO Region 1 Recon Geotechnical Sand Search
Comments:												Analysis Date:	02-15-24
Depths and elevations based on measured values												Analyzed By:	SM
						APTIM 6401 Congress Avenue, Suite 140 Boca Raton, FL 33487 ph (561) 391-8102						Easting (X, ft):	3,128,474
												Northing (Y, ft):	13,469,393
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

REGION1_RECON_GEOTECH.GPJ 3/6/24



REGION1_RECON_GEOTECH.GPJ 3/6/24



Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
TXGLO1-VC-23-092 #3		-73.6	SM	#200 - 16.34 #230 - 14.52			2.77	2.59	-0.59	4.67	0.66	Project Name:	TX GLO Region 1 Recon Geotechnical Sand Search
Comments:												Analysis Date:	02-15-24
Depths and elevations based on measured values												Analyzed By:	SM
						APTIM 6401 Congress Avenue, Suite 140 Boca Raton, FL 33487 ph (561) 391-8102						Easting (X, ft):	3,128,474
												Northing (Y, ft):	13,469,393
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88



Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
TXGLO1-VC-23-092 #4		-75.4	SP	#200 - 3.46 #230 - 3.00			2.16	2.17	-0.16	9.02	0.49	Project Name:	TX GLO Region 1 Recon Geotechnical Sand Search
Comments:												Analysis Date:	02-15-24
Depths and elevations based on measured values												Analyzed By:	SM
						APTIM 6401 Congress Avenue, Suite 140 Boca Raton, FL 33487 ph (561) 391-8102						Easting (X, ft):	3,128,474
												Northing (Y, ft):	13,469,393
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88



Mini Vane Shear Test Results

CORE ID	SAMPLE DEPTH (ft)	TORVANE (kg/cm ²)	TORVANE (tsf)	TORVANE (kpa)	DESCRIPTION ¹
TXGLO1-VC-23-081	0.4	0.0	0.00	0.00	Very Soft
	1.8	1.0	0.10	98.07	Stiff
	8.0	7.0	0.72	686.47	Hard
	13.0	7.5	0.77	735.50	Hard
TXGLO1-VC-23-082	0.6	0.3	0.03	24.52	Soft
	3.7	6.0	0.61	588.40	Hard
	8.3	6.5	0.67	637.43	Hard
TXGLO1-VC-23-083	2.0	2.1	0.22	205.94	Very Stiff
	4.1	0.3	0.03	29.42	Soft
	7.0	3.0	0.31	294.20	Very Stiff
	12.5	3.8	0.38	367.75	Hard
	16.5	3.0	0.31	294.20	Very Stiff
TXGLO1-VC-23-084	0.6	0.5	0.05	49.03	Firm
	2.6	2.0	0.20	196.13	Very Stiff
	6.0	2.5	0.26	245.17	Very Stiff
	11.2	3.5	0.36	343.23	Hard
	12.1	6.0	0.61	588.40	Hard
	15.0	6.5	0.67	637.43	Hard
TXGLO1-VC-23-085	2.7	2.0	0.20	196.13	Very Stiff
	8.7	1.8	0.18	171.62	Very Stiff
	15.0	4.0	0.41	392.27	Hard
TXGLO1-VC-23-086	1.2	0.0	0.00	0.00	Very Soft
	4.6	1.5	0.15	147.10	Stiff
	10.2	2.0	0.20	196.13	Very Stiff
	13.0	0.8	0.08	73.55	Firm
	15.1	6.0	0.61	588.40	Hard
TXGLO1-VC-23-087	No Torvane Conducted				
TXGLO1-VC-23-088	2.5	2.0	0.20	196.13	Very Stiff
	6.0	2.0	0.20	196.13	Very Stiff
	7.7	2.5	0.26	245.17	Very Stiff
	10.2	5.0	0.51	490.33	Hard
	12.8	4.0	0.41	392.27	Hard
	16.7	3.0	0.31	294.20	Very Stiff
TXGLO1-VC-23-089	14.5	2.0	0.20	196.13	Very Stiff
	17.6	2.5	0.26	245.17	Very Stiff
TXGLO1-VC-23-090	5.4	0.8	0.08	73.55	Firm
	10.8	1.5	0.15	147.10	Stiff
	16.2	4.0	0.41	392.27	Hard
TXGLO1-VC-23-091	2.2	0.5	0.05	49.03	Firm
	11.3	1.0	0.10	98.07	Stiff
TXGLO1-VC-23-092	13.3	0.5	0.05	49.03	Firm
	17.2	0.3	0.03	24.52	Soft
TXGLO1-VC-23-093	0.4	0.3	0.03	24.52	Soft
	10.0	3.0	0.31	294.20	Very Stiff
	12.3	4.5	0.46	441.30	Hard
	18.6	9.3	0.95	907.12	Hard