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Legend for Geotechnical Data

Grain Size Scale for Sediments

Unified Soil (Classification	APTIM Standard Sieve Stack						
	(USCS) 2487/2488)	Sieve Number	Size (phi)	Size (mm)				
	Coarse Gravel	3/4	-4.25	19.03				
		5/8	-4.00	16.00				
Gravel		7/16	-3.50	11.20				
Glaver	Fine Gravel	5/16	-3.00	8.00				
		3 1/2	-2.50	5.60				
		4	-2.25	4.75				
		5	-2.00	4.00				
	Coarse Sand	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				
Sand		35	1.00	0.50				
		45	1.50	0.36				
		60	2.00	0.25				
	Fine Sand	80	2.50	0.18				
	Time Sand	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

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

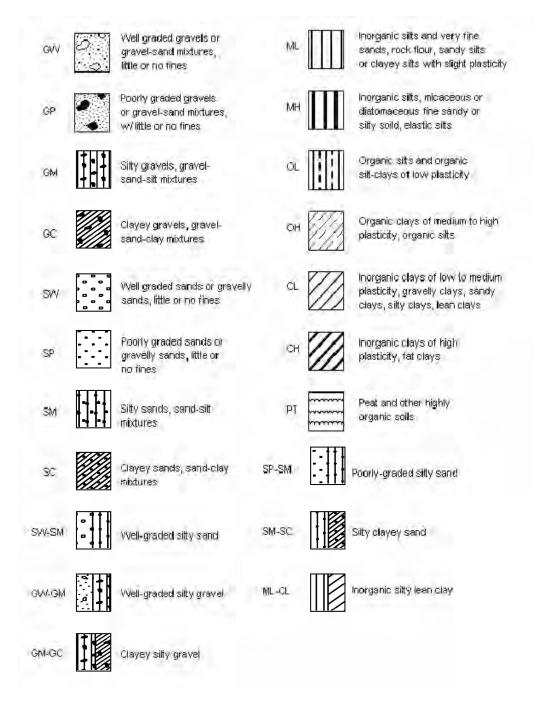
Consistency of Cohesive Soils

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

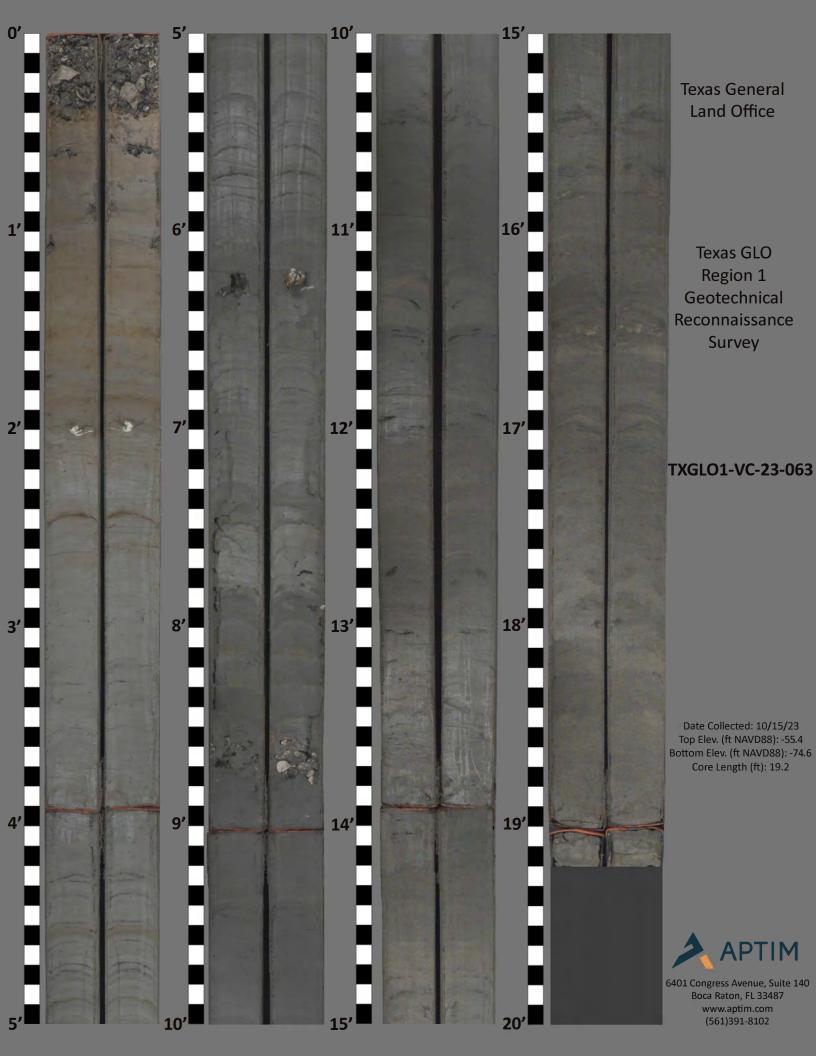
Refers to the Army Corps of Engineers Unified Soils Classification System. Class types are defined primarily by grain size, sorting and percent of material passing the #200 sieve. Classification of materials on the core logs based on visual field examinations are identified on the core logs under the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



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

Boring Designation TXGLO1-VC-23-063

Γ	DRI	LLING	LOG	DIVISION	1			IN	STAL	LATION	<u> </u>			SHEET 1	
1.	PRO								617			3.0 ln.		OF 1 SHEETS	-
	TX (GLO Regio		econ Geotec s, Galveston				9. 10	. co	ORDINATE	SYSTEM/DA	TUM HORIZON		VERTICAL NAVD88	1
2.							INATES (ft)		. мл	NUFACTU	RER'S DESIG	NATION OF DRILL	· 🔲	AUTO HAMMER	
3.		XGLO1-V		063	X = 3,32		Y = 13,623,357 ACTOR FILE NO.	-		APTIM SE/	AS VC-700	Vibracore DISTURBED		MANUAL HAMMER	-
	APTIM							12	. то	TAL SAMPL	.ES	0		4	
4.		i e of drill PTIM	ER					13	. то	TAL NUMB	ER CORE BO	XES			
5.	DIRE	CTION OF	BORIN		DEG. FRO	рм	BEARING	- 14	. EL	EVATION G	ROUND WAT				
	_	VERTICAL			VERTICA	L		15	. DA	TE BORING	i	STARTED 10-15-23	C	OMPLETED 10-15-23	
6.	тніс	KNESS OF	OVER	BURDEN	0.0 Ft.		•	16	. EL	EVATION T	OP OF BORIN		·		
7.	DEP		о імто	коск 0.	.0 Ft.			17	. то	TAL RECO	ERY FOR BC	DRING 19.2 F	t.		
8.	тот	AL DEPTH (OF BOR	RING 19.0) Ft.			18		snature a SM	ND TITLE OF	INSPECTOR			
	LEV. (ft) 55.4	DEPTH (ft) 0.0	LEGEND				MATERIALS on measured valu	es	REC.	BOX OR SAMPLE	The USCS percen	REMAR classification sy t passing the No.2	IKS stem de 200 (0.0	efines silt as the 75 mm) sieve	
	-55.8	- 0.4		FAT CLAY,	alve fragm (10YF , hard, trac	ents up to R-4/1), (G æ shell fra	ents, shell fragment o 2.0", dark gray W). agments, trace shel @ 0.6', 0.5" bivalve			T1		1, Depth = 1.5' /ane (tsf): 0.46			-0
	-57.6	- <u>2.2</u> - -		FAT CLAY,	2.0', yello very stiff, t laminae, o	wish brov trace silt, oxidation	(2006, 0.5 bivalve vn (10YR-5/4), (CH) trace whole shell, si throughout layer, 1. , gray (5Y-5/1), (CH	 It		T2		2, Depth = 5.0' /ane (tsf): 0.26			- - -5 -
	-62.7	- <u>7.3</u> - - -		trace shell fra distributed	agments, f d in lamina	trace silt, ie, sand la				Т3		3, Depth = 11.0' /ane (tsf): 0.28			- - 10 -
20/24	-74 6	- - - - - 19.2		bivalves up to 16.1' and 1	ed in laminae, sand lamina @ 8.2', 2.5" i bivalve fragments up to 1.0" and whole to 1.5" @ 8.6', 0.5" sand pockets @ 15. 16.5', expansion from 19.0' to 19.2', Bit m 19.0' to 19.2', dark gray (5Y-4/1), (CH)					T4		4, Depth = 15.0' /ane (tsf): 0.26			- 15 - -
	<u>-74.6</u>	- 19.2 - -			End	d of Borin	g								- -20 - -
ίο Π		DM 4926													[





Mini Vane Shear Test Results

000515	SAMPLE DEPTH	TORVANE	TORVANE	TORVANE	1
CORE ID	(ft)	(kg/cm²)	(tsf)	(kpa)	DESCRIPTION ¹
	1.6	1.5	0.15	147.10	Stiff
	2.3	2.5	0.26	245.17	Very Stiff
TXGLO1-VC-23-059	3.5	2.0	0.20	196.13	Very Stiff
	5.2	4.0	0.41	392.27	Hard
	10.0	7.0	0.72	686.47	Hard
	2.4	6.5	0.67	637.43	Hard
TXGLO1-VC-23-060	11.1	1.5	0.15	147.10	Stiff
TAGLU1-VC-25-000	13.1	6.0	0.61	588.40	Hard
	17.0	6.0	0.61	588.40	Hard
TXGLO1-VC-23-061		No Tor	vane Conducte	ed	
	1.0	0.3	0.03	24.52	Soft
TXGLO1-VC-23-062	2.6	1.0	0.10	98.07	Stiff
	5.0	4.0	0.41	392.27	Hard
	1.5	4.5	0.46	441.30	Hard
TXGLO1-VC-23-063	5.0	2.5	0.26	245.17	Very Stiff
TAGLU1-VC-25-005	11.0	2.8	0.28	269.68	Very Stiff
	15.0	2.5	0.26	245.17	Very Stiff
	0.3	0.0	0.00	0.00	Very Soft
TXGLO1-VC-23-064	0.7	0.5	0.05	49.03	Firm
	13.1	2.5	0.26	245.17	Very Stiff
TXGLO1-VC-23-065	1.8	2.0	0.20	196.13	Very Stiff
TAGLU1-VC-25-005	6.1	1.3	0.13	122.58	Stiff
	0.5	0.3	0.03	24.52	Soft
TXGLO1-VC-23-066	3.1	1.5	0.15	147.10	Stiff
	13.0	5.5	0.56	539.37	Hard
TXGLO1-VC-23-067	0.1	0.0	0.00	0.00	Very Soft
TAGLU1-VC-23-007	3.0	0.5	0.05	49.03	Firm
	0.3	0.3	0.03	24.52	Soft
	3.5	1.5	0.15	147.10	Stiff
TXGLO1-VC-23-068	7.4	3.0	0.31	294.20	Very Stiff
	11.2	7.8	0.79	760.02	Hard
	15.0	8.0	0.82	784.53	Hard
TXGLO1-VC-23-069	0.4	0.0	0.00	0.00	Very Soft
170101-00-23-009	3.5	0.8	0.08	73.55	Firm
	0.7	0.3	0.03	24.52	Soft
	1.9	2.0	0.20	196.13	Very Stiff
TXGLO1-VC-23-070	3.3	2.0	0.20	196.13	Very Stiff
	5.5	3.5	0.36	343.23	Hard
	11.9	0.0	0.00	0.00	Very Soft