

DEPARTMENT OF THE ARMY DIVISION <u>Southwestern</u> INSTALLATION <u>Galv Dist, Eng Div</u>			1. PROJECT <u>NASA Chan - Clear Creek</u>		SHEET <u>OF</u>	
DRILLING LOG			2. LOCATION (Coordinates or Station) <u>Tide 2.9 @ 13:30 hrs (MLT)</u>			
4. HOLE NO. (As shown on drawing title and file No.) <u>3ST-8</u>			3. DRILLING AGENCY <u>U. S. Army Corps of Engineers</u>			
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED DEGREES WITH VERTICAL			7. THICKNESS OF OVER-BURDEN		8. DEPTH DRILLED INTO ROCK	
10. SIZE AND TYPE OF BIT <u>Shelby Tube - 3"</u>			11. DATUM FOR ELEVATION SHOWN (TBM or MSL)		12. MANUFACTURER'S DESIGNATION OF DRILL	
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN <u>4 Jars</u>			14. TOTAL NO. CORE BOXES <u>1 Cont</u>		15. ELEV. GROUND WATER	
17. ELEV. TOP OF HOLE			18. TOTAL CORE RECOVERY FOR BORING (%)		19. SIGNATURE OF INSPECTOR	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
0.0	4.3	1.0	Water			
4.3	8.0	2.74	Gray mucky silty clay (CL) v/soft 3" ST penetrated w/weight of kelly			Jar 1
8.0	10.0		Gray sticky clay (CL) v/soft			Jar 2
10.0	12.5		Gray sticky clay (CL) trace small sand pockets			Jar 3
12.5	16.0	-13.1	Drive with 3" ST 140# hammer 12.5 to 14.0 1 BL 14.0 to 16.0 2 BL <i>Same as above</i>			Jar 4
16.0	18.0		Gray sticky silty clay Medium			Cont 1 .50
			Bottomed in above at 15' MLT Water 4.3			

Results of Tests of Foundation Materials

Hole No.	SWD Sample No.	Depth, Feet	Type of Sample	Mechanical Analysis			Limits		Natural Conditions		Pocket Penetrometer, tsf	Classification
				Gr	Sa	Fi	LL	PI	Water Content %	Dry Density Lbs/cu.ft.		
3ST-1	S-12849	3.5 - 7.5	Jar						59.7	-	-	Dk.gray CLAY(CL). (v/soft)
	S-12850	7.5 - 10.0	Jar						43.0	-	-	Dk.gray CLAY(CL). (soft)
	S-12851	10.0 - 12.5	ST						21.7	107	2.75	Gray and yellow CLAY(CH), very stiff.
3ST-2	S-12852	3.2 - 5.0	Jar	0	18	82	68	16	88.0	-	-	Gray CLAY(CH). (v/so)
	S-12853	5.0 - 7.5	Jar	0	24	76	38	16	41.3	-	-	Dk.gray sandy CLAY(CL). (v/so)
	S-12854	7.5 - 10.8	Jar	0	18	82	41	16	74.1	-	-	Dk.gray CLAY(CL). (v/so)
	S-12855	10.8 - 12.5	ST	1	14	85	37	10	22.2	106	2.5	Gray and brownish-yellow CLAY(CL), very stiff.
	S-12915	15.5 - 16.0	Jar	0	23	77	34	13	34.5	-	-	Dk.gray sandy CLAY(CL), few shells.
3ST-3	S-12856	3.7 - 8.0	Jar						43.4	-	-	Dk.gray CLAY(CL).
	S-12857	8.0 - 10.0	Jar						43.4	-	-	Dk.gray CLAY(CL).
	S-12858	10.0 - 12.5	ST						24.4	102	2.5	Olive and gray CLAY(CH), very stiff.
3ST-4	S-12859	2.3 - 6.0	Jar						46.3	-	-	Dk.gray CLAY(CL). v/soft
	S-12860	6.0 - 10.0	Jar						52.5	-	-	Dk.gray CLAY(CL). v/soft
	S-12861	10.0 - 12.5	ST						37.1	82	0.25	Dk.gray CLAY(CL), very stiff.
3ST-5	S-12862	3.5 - 6.0	Jar						49.2	-	-	Dk.gray CLAY(CL).
	S-12863	6.0 - 8.5	Jar						57.3	-	-	Dk.gray CLAY(CL).
	S-12864	8.5 - 11.0	Jar						55.9	-	-	Dk.gray CLAY(CL).
	S-12865	11.0 - 13.0	ST						54.1	69.3	0.25+	Dk.gray CLAY(CL), soft.
3ST-6	S-12866	4.0 - 8.0	Jar						44.6	-	-	Dk.gray CLAY(CH).
	S-12867	8.0 - 10.0	Jar	0	10	90	45	12	47.9	-	-	Dk.gray CLAY(CL).
	S-12868	10.0 - 12.5	Jar						41.8	-	-	Gray CLAY(CL).
	S-12869	12.5 - 15.0	Jar						41.2	-	-	Gray CLAY(CL).
3ST-7	S-12870	4.0 - 8.0	Jar	0	13	87	65	14	79.9	-	-	Dk.gray CLAY(CH).
	S-12871	8.0 - 10.0	Jar						40.5	-	-	Dk.gray CLAY(CL).
	S-12872	10.0 - 12.0	Jar	3	14	83	42	11	40.5	-	-	Dk.gray CLAY(CL).
	S-12873	12.0 - 14.0	ST						26.7	99	1.25	Red and gray CLAY(CH), stiff.
3ST-8	S-12874	4.2 - 8.0	Jar						42.6	-	-	Dk.gray CLAY(CL).
	S-12875	8.0 - 10.0	Jar						42.6	-	-	Dk.gray CLAY(CL).
	S-12876	10.0 - 12.5	Jar						36.6	-	-	Dk.gray CLAY(CL).
3ST-9	S-12877	4.5 - 7.0	Jar						116.3	-	-	Dk.gray CLAY(CH).
	S-12878	7.0 - 10.0	Jar						40.3	-	-	Dk.gray CLAY(CL).
	S-12879	10.0 - 12.5	ST	1	32	67	28	13	24.6	103	0.5	Gray sandy CLAY(CL), medium consistency.
	S-12880	12.5 - 15.0	ST	0	9	91	56	13	28.7	96	1.5	Greenish-gray CLAY(CH), stiff.

NASA CHANNEL IN CLEAR LAKE
INVEST OF CHANNEL DREDGING

TEST DATA SUMMARY

Sheet 2 of 3

FEATURE Log of Soil Boring

BORING NO.	SAMPLE NO.	DEPTH OR ELEV. OF SAMPLE	LABORATORY CLASSIFICATION	MECHANICAL ANALYSIS				ATTERBERG LIMITS		SPECIFIC GRAVITY G	NATURAL WATER CONTENT %	NATURAL DRY DENSITY LBS./CU. FT	COMPACTION DATA		SHEAR DATA										PERMEABILITY		CONSOLIDATION DATA				REMARKS				
				GRAVEL %	SAND %	FINES %	D ₁₀ *	LL	PL				OPTIMUM WATER %	MAXIMUM DRY DENSITY LBS. CU. FT	INITIAL e	DRY DENSITY LBS./CU. FT	W _L %	W _P %	S _L %	TYPE TEST	SPECIMEN SIZE INCHES	TEST	σ ₁ T/SQ. FT	σ ₃ T/SQ. FT	C T/SQ. FT	φ DEGREES	e	K FT./MIN	P ₀ T/SQ. FT	P _c T/SQ. FT		C _c	t ₉₀ *		
3ST-7	62	0.0	TEST DONE BY DIV.																																
		14.0																																	
	4073	16.0	CL	3	16	81	2.75	39.5	17.0		25.3	106.4																							
	4074	17.5	SAME AS #4073				1.75				23.5	104.0																							
3ST-8	62	0.0	TEST DONE BY DIV.																																
		16.0																																	
	4075	18.0	CL	0	35	65	0.0	25.2	7.0		27.5	98.7																							
3ST-9	62	0.0	TEST DONE BY DIV.																																
		15.0																																	
	4076	17.0	CH	0	3	97	2.00	52.9	22.0		28.9	100.0																							
	4077	18.0	SAME AS #4076								22.2	110.5																							
3ST-10	62	0.0	TEST DONE BY DIV.																																
		14.0																																	
	4078	16.5	CL	1	17	82	2.00	47.1	16.0		24.9	104.5																							
	4079	17.5	SAME AS #4078				2.25				26.1	104.1																							
3ST-11	62	0.0	TEST DONE BY DIV.																																
		15.0																																	
	4080	17.5	CH	0	5	95	2.05	61.2	22.5		27.5	102.0																							

* Values at Pressure T/SQ FT

- Triaxial Compression
UC - Unconfined Compression

DS - Direct Shear
UU - Unconsolidated Undrained

- Consolidated Drained
CU - Consolidated Undrained