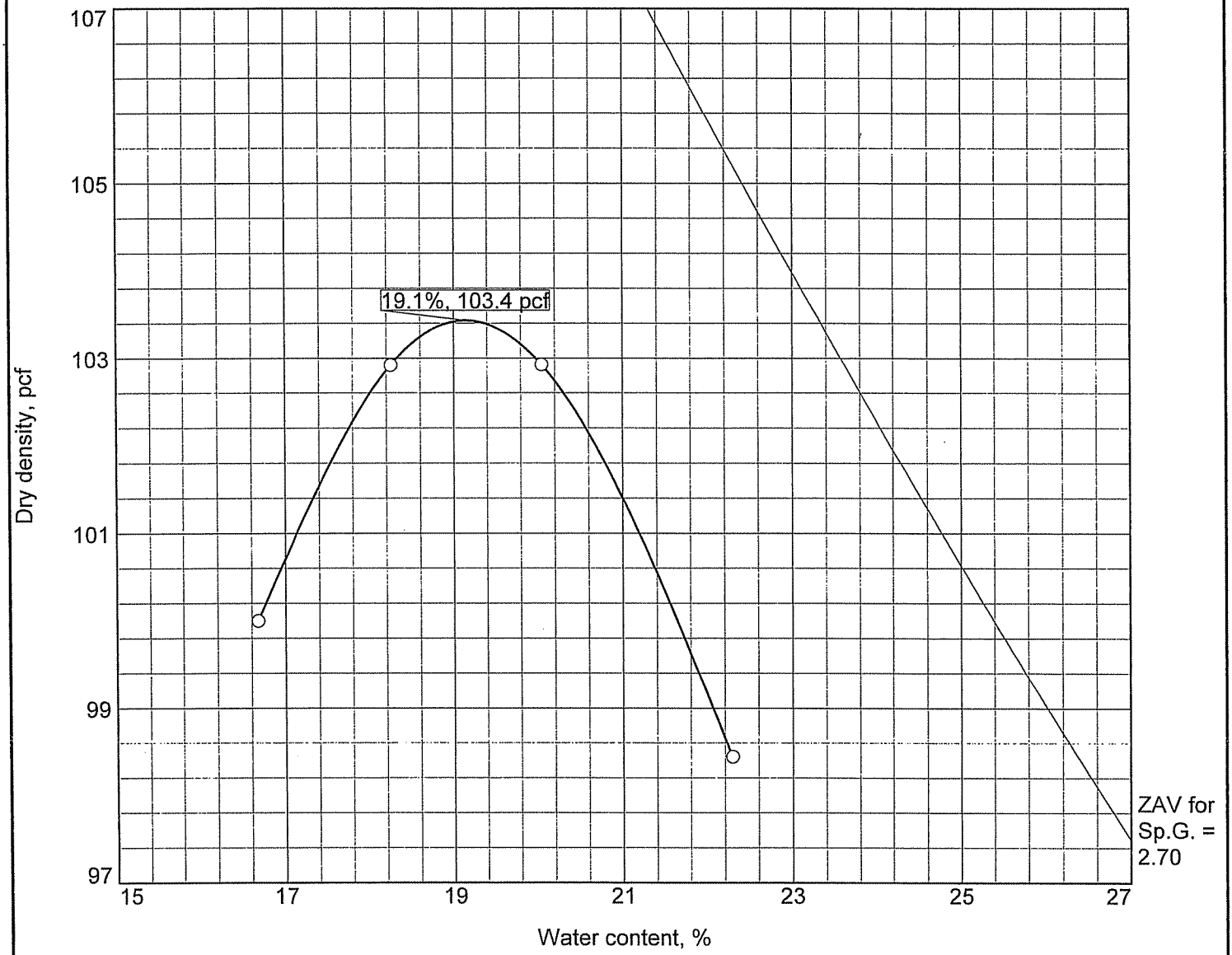
	5	8-10	Reddish-brown LEAN CLAY	CL	31.9	95.8	45	18	27	99.8	1.01	12	9	Bulge
	6	10-12	Reddish-brown SANDY SILTY CLAY	CL-ML	25.4	97.5								
	7	12-14	Reddish-brown and gray FAT CLAY	CH	27.8	97.9								
	8	14-16	Reddish-brown and gray FAT CLAY	CH	21.0	105.9								
	9	16-18	Reddish-brown and gray LEAN CLAY with SAND	CL	15.8	113.2								
	10	18-20	Reddish-brown and gray LEAN CLAY with SAND	CL	26.5	97.4								
08-94			**El. 9.25, E=3185568 N=13646170**											
	1	0-2	Gray and tan SANDY LEAN CLAY	CL	11.3	106.3								
	2	2-4	Gray and tan FAT CLAY	CH	24.9	100.1								
	3	4-6	Tan and gray FAT CLAY	CH	24.5	99.7	60	21	39	90.7	1.20	11.4	6	60 degree
	4	6-8	Reddish-brown and gray FAT CLAY; calcareous nodules	CH	29.6	96.0								
	5	8-10	Reddish-brown and gray FAT CLAY	CH	28.9	95.4								
	6	10-12	Reddish-brown and gray FAT CLAY	CH	22.0	107.1	50	20	30	97.8	1.13	11.2	11	60 degree
	7	12-14	Reddish-brown and gray SANDY SILTY CLAY	CL-ML	23.8	99.5					0.84	3.4		Vertical shear
	8	14-16	Reddish-brown gray FAT CLAY; calcareous nodules	CH	27.5	97.5								
	9	16-18	Reddish-brown and gray FAT CLAY	CH	25.4	98.4	67	21	46	98.0	2.28	6.7	15	Slickensided
	10	18-20	Reddish-brown and gray FAT CLAY; calcareous nodules	CH	27.0	98.0								
08-95			**El. 11.00, E=3184767 N=13646549**											
	1	0-2	Gray and tan SANDY LEAN CLAY	CL	9.9	108.8								
	2	2-4	Tan and gray SANDY LEAN CLAY	CL	20.9	105.1								
	3	4-6	Tan and gray FAT CLAY; ferrous nodules	CH	23.5	103.0	61	21	40		2.01	11.2	6	Bulge
	4	6-8	Reddish-brown and gray FAT CLAY; calcareous	CH	24.2	101.6					1.72	11.2		60 degree
	5	8-10	Reddish-brown and gray FAT CLAY; calcareous nodules	CH	28.1	95.9								
	6	10-12	Reddish-brown and gray FAT CLAY; calcareous nodules	CH	27.5	94.7								
	7	12-14	Reddish-brown and gray FAT CLAY; calcareous nodules	CH	30.1	95.6								
	8	14-16	Reddish-brown and gray FAT CLAY; calcareous nodules	CH	27.6	97.3								
	9	16-18	Reddish-brown and gray FAT CLAY; calcareous nodules	CH	26.2	99.2								
	10	18-20	Reddish-brown and gray FAT CLAY; calcareous nodules	CH	24.1	100.5								
08-96			**El. 11.50, E=3184441 N=13647279**											
	1	0-2	Gray SANDY LEAN CLAY	CL	17.8	106.6								
	2	2-4	Gray and tan FAT CLAY	CH	20.1	103.5								
	3	4-6	Reddish-brown and gray FAT CLAY	CH	32.9	89.8	64	21	43	93.1	0.85	6.2	6	60 degree
	4	6-8	Reddish-brown and gray FAT CLAY	CH	27.6	94.3								
	5	8-10	Reddish-brown and gray FAT CLAY	CH	30.6	90.8								
	6	10-12	Reddish-brown and gray FAT CLAY	CH	25.7	95.8	66	21	45	98.8	1.54	2.6		Slickensided
	7	12-14	Reddish-brown and gray FAT CLAY	CH	24.9	102.6								
	8	14-16	Reddish-brown LEAN CLAY with SAND	CL	24.1	97.7								
	9	16-18	Reddish-brown and gray FAT CLAY	CH	26.0	97.9								
	10	18-20	Reddish-brown and gray FAT CLAY	CH	26.3	98.0								
08-97			**El. 11.25, E=3185190 N=13647332**											
	1	0-2	Gray SANDY LEAN CLAY	CL	15.8	109.4								
	2	2-4	Gray FAT CLAY with SAND	CH	21.1	105.3								
	3	4-6	Tan and gray FAT CLAY; ferrous and calcareous nodules	CH	21.2	108.2								
	4	6-8	Reddish-brown and gray FAT CLAY; ferrous nodules	CH	30.4	89.6								
	5	8-10	Reddish-brown and gray FAT CLAY	CH	40.9	86.4	66	21	45	98.0	0.44	9.5	9	60 degree
	6	10-12	Reddish-brown and gray SILTY CLAY with SAND	CL-ML	35.6									
	7	12-14	Reddish-brown and gray SILTY CLAY with SAND	CL-ML	27.0	95.8					0.58	5.8		Vertical shear
	8	14-16	Reddish-brown and gray FAT CLAY; calcareous nodules	CH	25.4	99.0								
	9	16-18	Reddish-brown and gray FAT CLAY	CH	25.1	98.8								
	10	18-20	Reddish-brown and gray FAT CLAY	CH	28.9	98.7								
08-98			**El. 11.00, E=3184452 N=13647824**											
	1	0-2	Gray SANDY LEAN CLAY	CL	13.2	105.9								
	2	2-4	Tan and gray FAT CLAY	CH	19.8	98.9								
	3	4-6	Tan and gray FAT CLAY	CH	17.1	109.6								
	4	6-8	Reddish-brown and gray FAT CLAY	CH	29.1	93.3	67	21	46	98.3	1.22	6.1		Slickensided
	5	8-10	Reddish-brown and gray FAT CLAY	CH	32.4	88.6								
	6	10-12	Reddish-brown and gray FAT CLAY	CH	24.5	99.6	62	20	42	95.2	1.75	5.1	11	Slickensided
	7	12-14	Reddish-brown and gray FAT CLAY; calcareous nodules	CH	37.8	87.0								
	8	14-16	Reddish-brown and gray FAT CLAY; calcareous nodules	CH	26.0	98.0								
	9	16-18	Reddish-brown and gray FAT CLAY; calcareous nodules	CH	24.4	102.5								
	10	18-20	Reddish-brown and gray FAT CLAY	CH	27.6	96.5								
08-99														

	1	0-2	Gray and tan SANDY LEAN CLAY	CL	16.5	102.7								
	2	2-4	Tan and gray SANDY LEAN CLAY	CL	22.1	101.4								
	3	4-6	Tan and gray FAT CLAY with SAND	CH	22.3	100.8								
	4	6-8	Reddish-brown and gray LEAN CLAY	CL	23.5	104.2	34	16	18	93.5	1.18	14.2	8	Bulge
	5	8-10	Reddish-brown and gray FAT CLAY; part silty clay with sand	CH	28.1	97.1					1.16	10.1		Vertical shear
	6	10-12	Reddish-brown and gray FAT CLAY	CH	31.1	90.4								
	7	12-14	Reddish-brown and gray FAT CLAY	CH	30.8	90.2								
	8	14-16	Reddish-brown and gray FAT CLAY	CH	24.1	101.2								
	9	16-18	Reddish-brown and gray FAT CLAY	CH	27.8	95.6								
	10	18-20	Reddish-brown and gray FAT CLAY	CH	25.3	99.3								
08-100			**El. 19.50, E=3183395 N=13646859**											
	2	2-4	Reddish-brown and gray FAT CLAY	CH	30.6	86.6								
	3	4-6	Reddish-brown and gray FAT CLAY	CH	36.6	81.7								
	4	6-8	Gray and tan FAT CLAY	CH	29.4	94.1								
	5	8-10	Gray and tan FAT CLAY	CH	27.7	93.7								
	6	10-12	Tan and gray FAT CLAY	CH	29.2	91.8								
	7	12-14	Gray FAT CLAY	CH	35.8	83.2								
	8	14-16	Tan and gray FAT CLAY; calcareous nodules	CH	28.2	94.1								
	9	16-18	Tan and gray FAT CLAY; calcareous nodules	CH	20.2	103.1								
	10	18-20	Tan and gray FAT CLAY; calcareous nodules	CH	18.6	110.1								
	11	20-22	Reddish-brown and gray FAT CLAY	CH	21.9	106.4	64	21	43	97.8	1.93	11.2	18	Slickensided
	12	22-24	Reddish-brown and gray FAT CLAY	CH	26.8	97.4								
	13	24-26	Reddish-brown and gray FAT CLAY	CH	26.0	97.3								
	14	26-28	Reddish-brown and gray FAT CLAY	CH	28.5	93.7								
	15	28-30	Reddish-brown and gray FAT CLAY	CH	26.0	96.3								
	16	30-32	Reddish-brown and gray FAT CLAY	CH	25.7	99.1								
	17	32-34	Reddish-brown and gray FAT CLAY	CH	29.1	93.8								
	18	34-36	Reddish-brown and gray FAT CLAY	CH	24.9	97.8	72	22	50	99.9	2.07	3.1		Slickensided
	19	36-38	Reddish-brown and gray FAT CLAY	CH	29.1	93.9								
	20	38-40	Reddish-brown and gray FAT CLAY	CH	29.0	92.4								
08-101			**El. 17.0, E=3183228 N=13647757**											
	1	0-2	Gray and tan FAT CLAY	CH	26.2	84.8								
	2	2-4	Gray and tan FAT CLAY with SAND	CH	29.9	86.3								
	3	4-6	Gray and tan FAT CLAY	CH	27.1	89.1								
	4	6-8	Gray FAT CLAY	CH	24.0	98.1								
	5	8-10	Gray FAT CLAY	CH	31.2	87.4								
	6	10-12	Tan and gray FAT CLAY	CH	22.1	101.5								
	7	12-14	Tan and gray FAT CLAY; calcareous nodules	CH	17.6	113.9								
	8	14-16	Reddish-brown and tan FAT CLAY; calcareous nodules	CH	20.7	112.2								
	9	16-18	Reddish-brown and gray FAT CLAY; calcareous nodules	CH	21.0	109.7								
	10	18-20	Reddish-brown and gray FAT CLAY; calcareous nodules	CH	26.0	99.3								
	11	20-22	Reddish-brown and gray FAT CLAY; calcareous nodules	CH	27.1	100.2								
	12	22-24	Reddish-brown and gray FAT CLAY	CH	24.8	100.9	65	21	44	99.1	1.68	14.7	20	Slickensided
	13	24-26	Reddish-brown and gray FAT CLAY	CH	25.1	98.4								
	14	26-28	Reddish-brown and gray FAT CLAY	CH	24.1	99.8								
	15	28-30	Reddish-brown SILTY CLAY with SAND	CL-ML	25.4	97.8								
	16	30-32	Reddish-brown and gray FAT CLAY	CH	24.7	99.1								
	17	32-34	Reddish-brown and gray FAT CLAY	CH	25.0	95.4	67	21	46	97.7	2.30	9.2		60 degree
	18	34-36	Reddish-brown and gray FAT CLAY	CH	23.5	100.3								
	19	36-38	Reddish-brown and gray FAT CLAY	CH	24.4	98.7								
	20	38-40	Reddish-brown and gray FAT CLAY	CH	32.8	90.3								

COMPACTION TEST REPORT



Test specification: ASTM D 698-07 Method A Standard

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > #4	% < No.200
	USCS	AASHTO						
	CL			2.70			0.0	

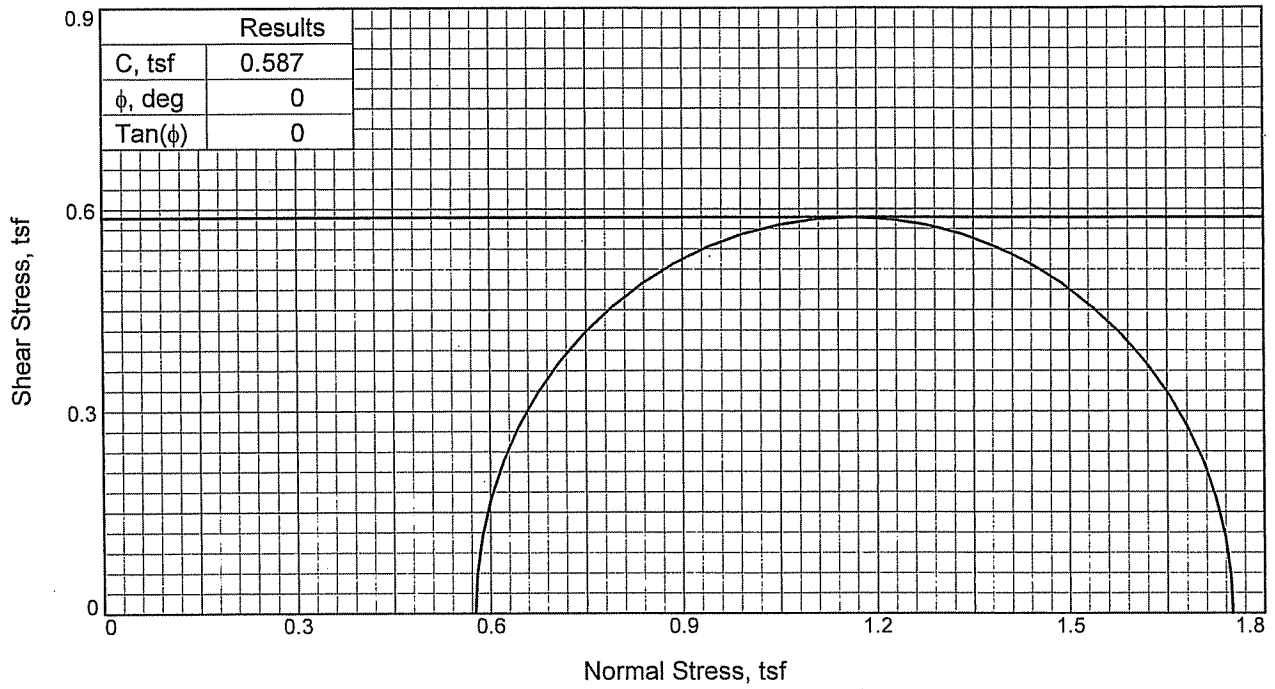
TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 103.4 pcf Optimum moisture = 19.1 %	Reddish-brown LEAN CLAY

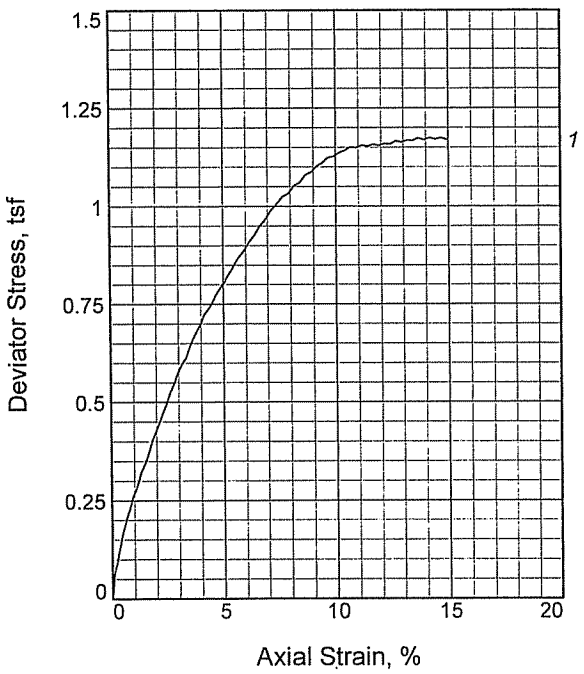
Project No. 08.18.921 **Client:** United States Army Corps of Engineers
Project: Chocolate Bayou Placement Area
Contract DACW64-03-D-0008; Task Order 0079
○ **Source of Sample:** 08-99 **Sample Number:** 6

Remarks:
Test method: ASTM D 698
Preparation Method: Wet
Specific Gravity: Assumed

Tolunay-Wong Engineers, Inc.

Houston, Texas





Sample No.		1
Initial	Water Content, %	23.5
	Dry Density, pcf	104.2
	Saturation, %	99.9
	Void Ratio	0.6481
	Diameter, in.	2.83
	Height, in.	5.96
At Test	Water Content, %	23.3
	Dry Density, pcf	104.2
	Saturation, %	99.0
	Void Ratio	0.6481
	Diameter, in.	2.83
	Height, in.	5.96
Strain rate, %/min.		1.00
Back Pressure, tsf		0.00
Cell Pressure, tsf		0.58
Fail. Stress, tsf		1.17
Ult. Stress, tsf		
σ_1 Failure, tsf		1.75
σ_3 Failure, tsf		0.58

Type of Test:
Unconsolidated Undrained

Sample Type: Undisturbed

Description: Reddish-brown and gray LEAN CLAY with SAND

LL= 34 **PL=** 16 **PI=** 18

Assumed Specific Gravity= 2.75

Remarks:
Test method: ASTM D 2850
Pocket pen; tsf: 1.50
Failure type: Bulge

Client: United States Army Corps of Engineers

Project: Chocolate Bayou Placement Area
Contract DACW64-03-D-0008; Task Order 0079

Source of Sample: 08-99 **Depth:** 6-8

Sample Number: 4

Proj. No.: 08.18.921 **Date Sampled:** 8/16/08

TRIAXIAL SHEAR TEST REPORT

Tolunay-Wong Engineers, Inc.

TRIAXIAL COMPRESSION TEST

Unconsolidated Undrained

8/19/2008
2:12 PM

Date: 8/16/08
Client: United States Army Corps of Engineers
Project: Chocolate Bayou Placement Area
Contract DACW64-03-D-0008; Task Order 0079
Project No.: 08.18.921
Location: 08-99
Depth: 6-8 **Sample Number:** 4
Description: Reddish-brown and gray LEAN CLAY with SAND
Remarks:
Test method: ASTM D 2850
Pocket pen; tsf: 1.50
Failure type: Bulge
Type of Sample: Undisturbed
Assumed Specific Gravity=2.75 **LL=**34 **PL=**16 **PI=**18
Test Method: ASTM D 2850

Parameters for Specimen No. 1

Specimen Parameter	Initial	Final
Moisture content: Moist soil+tare, gms.	150.990	117.090
Moisture content: Dry soil+tare, gms.	128.280	100.940
Moisture content: Tare, gms.	31.840	31.750
Moisture, %	23.5	23.3
Moist specimen weight, gms.	1271.8	
Diameter, in.	2.83	
Area, in.^{2}	6.31	
Height, in.	5.96	
Wet Density, pcf	128.7	
Dry density, pcf	104.2	
Void ratio	0.6481	
Saturation, %	99.9	

Test Readings for Specimen No. 1

Membrane modulus = .130 kN/cm^2
Membrane thickness = .031 cm
Cell pressure = 8.00 psi (0.576 tsf)
Back pressure = 0.00 psi (0.000 tsf)
Strain rate, %/min. = 1.00
Fail. Stress = 1.175 tsf **at reading no.** 79

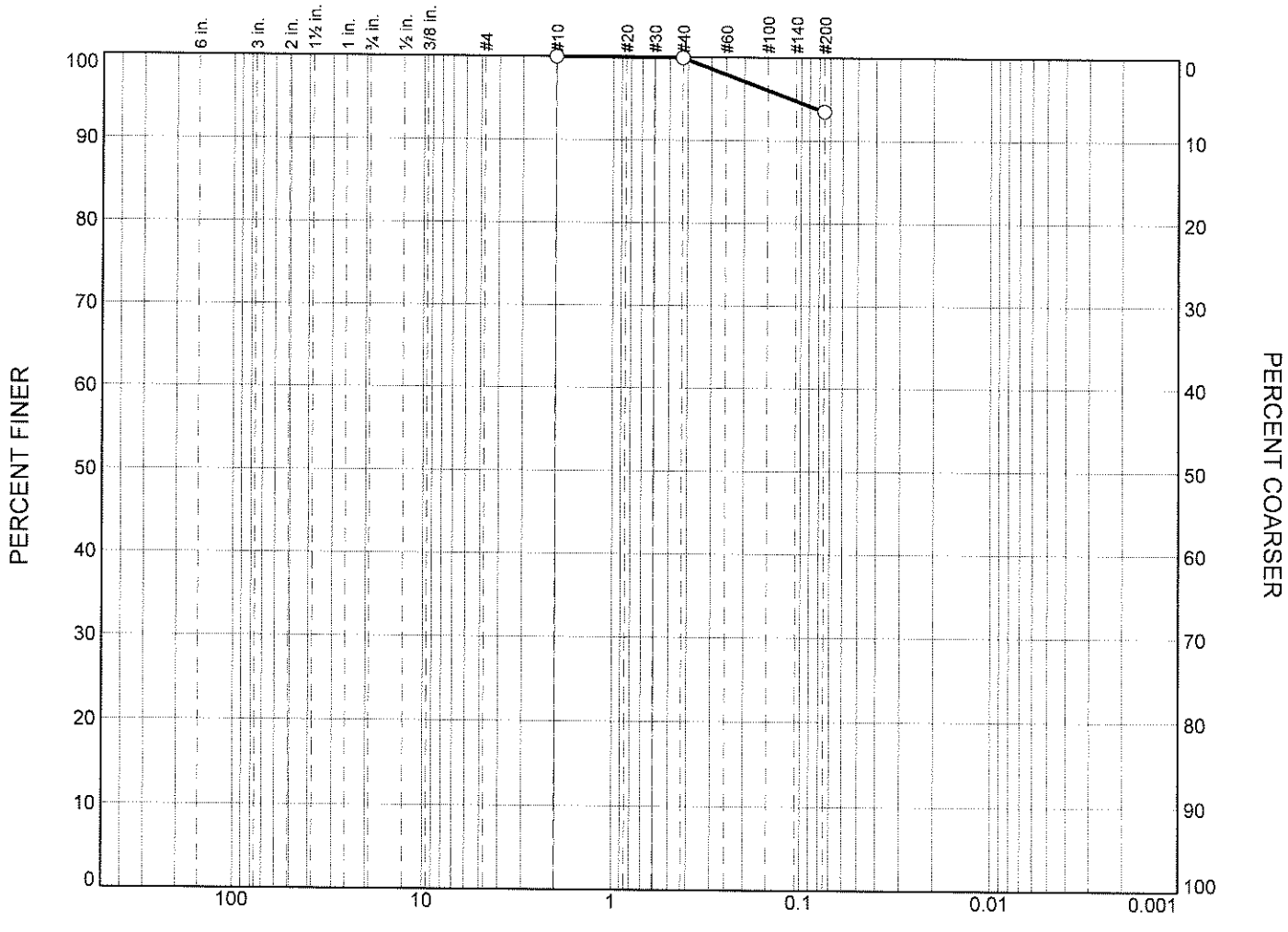
Test Readings for Specimen No. 1

No.	Def. Dial in.	Load Dial	Load lbs.	Strain %	Deviator Stress tsf	Minor Princ. Stress tsf	Major Princ. Stress tsf	1:3 Ratio	P tsf	Q tsf
0	0.0770	0.000	0.0	0.0	0.000	0.576	0.576	1.00	0.576	0.000
1	0.0819	5.014	5.0	0.1	0.057	0.576	0.633	1.10	0.605	0.029
2	0.0847	6.410	6.4	0.1	0.073	0.576	0.649	1.13	0.613	0.037
3	0.0892	7.691	7.7	0.2	0.088	0.576	0.664	1.15	0.620	0.044
4	0.0924	9.003	9.0	0.3	0.102	0.576	0.678	1.18	0.627	0.051
5	0.0956	10.555	10.6	0.3	0.120	0.576	0.696	1.21	0.636	0.060
6	0.1002	12.385	12.4	0.4	0.141	0.576	0.717	1.24	0.646	0.070
7	0.1047	14.232	14.2	0.5	0.162	0.576	0.738	1.28	0.657	0.081
8	0.1093	15.605	15.6	0.5	0.177	0.576	0.753	1.31	0.665	0.089
9	0.1139	17.162	17.2	0.6	0.195	0.576	0.771	1.34	0.673	0.097
10	0.1185	18.457	18.5	0.7	0.209	0.576	0.785	1.36	0.681	0.105
11	0.1230	19.777	19.8	0.8	0.224	0.576	0.800	1.39	0.688	0.112
12	0.1289	21.629	21.6	0.9	0.245	0.576	0.821	1.42	0.698	0.122
13	0.1335	23.019	23.0	0.9	0.260	0.576	0.836	1.45	0.706	0.130
14	0.1401	24.348	24.3	1.1	0.275	0.576	0.851	1.48	0.713	0.137
15	0.1491	26.669	26.7	1.2	0.301	0.576	0.877	1.52	0.726	0.150
16	0.1548	28.435	28.4	1.3	0.320	0.576	0.896	1.56	0.736	0.160
17	0.1669	30.946	30.9	1.5	0.348	0.576	0.924	1.60	0.750	0.174
18	0.1732	32.566	32.6	1.6	0.365	0.576	0.941	1.63	0.759	0.183
19	0.1790	34.284	34.3	1.7	0.384	0.576	0.960	1.67	0.768	0.192
20	0.1853	35.912	35.9	1.8	0.402	0.576	0.978	1.70	0.777	0.201
21	0.1975	38.633	38.6	2.0	0.432	0.576	1.008	1.75	0.792	0.216
22	0.2032	39.949	39.9	2.1	0.446	0.576	1.022	1.77	0.799	0.223
23	0.2096	41.295	41.3	2.2	0.461	0.576	1.037	1.80	0.806	0.230
24	0.2154	42.787	42.8	2.3	0.477	0.576	1.053	1.83	0.814	0.238
25	0.2217	44.038	44.0	2.4	0.490	0.576	1.066	1.85	0.821	0.245
26	0.2275	45.582	45.6	2.5	0.507	0.576	1.083	1.88	0.829	0.253
27	0.2338	47.341	47.3	2.6	0.526	0.576	1.102	1.91	0.839	0.263
28	0.2459	49.564	49.6	2.8	0.549	0.576	1.125	1.95	0.851	0.275
29	0.2517	51.341	51.3	2.9	0.568	0.576	1.144	1.99	0.860	0.284
30	0.2639	53.745	53.7	3.1	0.594	0.576	1.170	2.03	0.873	0.297
31	0.2760	55.653	55.7	3.3	0.614	0.576	1.190	2.07	0.883	0.307
32	0.2818	57.294	57.3	3.4	0.631	0.576	1.207	2.10	0.892	0.316
33	0.2875	58.531	58.5	3.5	0.644	0.576	1.220	2.12	0.898	0.322
34	0.2940	59.996	60.0	3.6	0.659	0.576	1.235	2.14	0.906	0.330
35	0.3055	62.195	62.2	3.8	0.682	0.576	1.258	2.18	0.917	0.341
36	0.3178	64.212	64.2	4.0	0.703	0.576	1.279	2.22	0.927	0.351
37	0.3235	65.875	65.9	4.1	0.720	0.576	1.296	2.25	0.936	0.360
38	0.3358	67.556	67.6	4.3	0.737	0.576	1.313	2.28	0.945	0.369
39	0.3479	69.481	69.5	4.5	0.757	0.576	1.333	2.31	0.954	0.378
40	0.3536	70.803	70.8	4.6	0.770	0.576	1.346	2.34	0.961	0.385
41	0.3659	72.645	72.6	4.8	0.788	0.576	1.364	2.37	0.970	0.394
42	0.3780	74.347	74.3	5.0	0.805	0.576	1.381	2.40	0.979	0.403
43	0.3844	75.557	75.6	5.2	0.817	0.576	1.393	2.42	0.985	0.409
44	0.3990	77.853	77.9	5.4	0.840	0.576	1.416	2.46	0.996	0.420
45	0.4143	80.496	80.5	5.7	0.866	0.576	1.442	2.50	1.009	0.433
46	0.4290	82.349	82.3	5.9	0.884	0.576	1.460	2.53	1.018	0.442

Test Readings for Specimen No. 1

No.	Def. Dial in.	Load Dial	Load lbs.	Strain %	Deviator Stress tsf	Minor Princ. Stress tsf	Major Princ. Stress tsf	1:3 Ratio	P tsf	Q tsf
47	0.4443	84.828	84.8	6.2	0.908	0.576	1.484	2.58	1.030	0.454
48	0.4589	86.770	86.8	6.4	0.926	0.576	1.502	2.61	1.039	0.463
49	0.4742	89.243	89.2	6.7	0.950	0.576	1.526	2.65	1.051	0.475
50	0.4889	91.027	91.0	6.9	0.967	0.576	1.543	2.68	1.059	0.483
51	0.5042	93.519	93.5	7.2	0.990	0.576	1.566	2.72	1.071	0.495
52	0.5189	95.158	95.2	7.4	1.005	0.576	1.581	2.74	1.078	0.502
53	0.5342	97.239	97.2	7.7	1.024	0.576	1.600	2.78	1.088	0.512
54	0.5488	98.296	98.3	7.9	1.032	0.576	1.608	2.79	1.092	0.516
55	0.5641	100.449	100.4	8.2	1.052	0.576	1.628	2.83	1.102	0.526
56	0.5788	101.455	101.5	8.4	1.060	0.576	1.636	2.84	1.106	0.530
57	0.5941	103.624	103.6	8.7	1.079	0.576	1.655	2.87	1.116	0.540
58	0.6087	104.682	104.7	8.9	1.088	0.576	1.664	2.89	1.120	0.544
59	0.6240	106.367	106.4	9.2	1.102	0.576	1.678	2.91	1.127	0.551
60	0.6387	107.446	107.4	9.4	1.110	0.576	1.686	2.93	1.131	0.555
61	0.6540	108.995	109.0	9.7	1.123	0.576	1.699	2.95	1.137	0.561
62	0.6686	109.644	109.6	9.9	1.127	0.576	1.703	2.96	1.139	0.563
63	0.6839	110.965	111.0	10.2	1.137	0.576	1.713	2.97	1.144	0.568
64	0.6986	111.804	111.8	10.4	1.142	0.576	1.718	2.98	1.147	0.571
65	0.7139	112.912	112.9	10.7	1.150	0.576	1.726	3.00	1.151	0.575
66	0.7285	113.098	113.1	10.9	1.149	0.576	1.725	2.99	1.151	0.575
67	0.7438	114.023	114.0	11.2	1.155	0.576	1.731	3.01	1.154	0.578
68	0.7585	114.010	114.0	11.4	1.152	0.576	1.728	3.00	1.152	0.576
69	0.7737	114.900	114.9	11.7	1.157	0.576	1.733	3.01	1.155	0.579
70	0.7884	114.850	114.9	11.9	1.154	0.576	1.730	3.00	1.153	0.577
71	0.8037	115.780	115.8	12.2	1.160	0.576	1.736	3.01	1.156	0.580
72	0.8183	115.954	116.0	12.4	1.158	0.576	1.734	3.01	1.155	0.579
73	0.8336	117.072	117.1	12.7	1.166	0.576	1.742	3.02	1.159	0.583
74	0.8483	117.102	117.1	12.9	1.163	0.576	1.739	3.02	1.157	0.581
75	0.8636	117.915	117.9	13.2	1.168	0.576	1.744	3.03	1.160	0.584
76	0.8783	118.212	118.2	13.4	1.167	0.576	1.743	3.03	1.160	0.584
77	0.8935	119.178	119.2	13.7	1.173	0.576	1.749	3.04	1.163	0.587
78	0.9082	119.055	119.1	13.9	1.169	0.576	1.745	3.03	1.160	0.584
79	0.9235	120.019	120.0	14.2	1.175	0.576	1.751	3.04	1.163	0.587
80	0.9382	119.918	119.9	14.4	1.170	0.576	1.746	3.03	1.161	0.585
81	0.9535	120.695	120.7	14.7	1.174	0.576	1.750	3.04	1.163	0.587
82	0.9681	120.512	120.5	14.9	1.169	0.576	1.745	3.03	1.161	0.585

Particle Size Analysis - ASTM D 422



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	0.1	6.4	93.5	

SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	Material Description	USCS
○	08-99	4	6-8	Reddish-brown and gray LEAN CLAY with SAND	CL

Tolunay-Wong Engineers, Inc.
Houston, Texas

Client: United States Army Corps of Engineers
Project: Chocolate Bayou Placement Area
Contract DACW64-03-D-0008; Task Order 0079
Project No.: 08.18.921