Data File:CPT373 09-19-05 18:26
Operator:B. BUCKNAM Location:HP-11
Cone ID:510 Job Number:
Customer:TEST AMERICA Units:English

Depth (ft)	Qt (TSF)	Fs (TSF)	Fs/Qt (%)	Pw (PSI)	SPT N* 60% Hammer	Zone	Soil Behavior Type UBC-1983
0.16	17.9	0.000	0.000	0.00	0	0	<out of range>
0.33	30.4	0.000	0.000	0.00	0	0	<out of range>
0.49	36.8	-0.060	-0.163	0.00	0	0	<out of range>
0.66	38.0	-0.030	-0.079	0.00	0	0	<out of range>
0.82	31.1	-0.030	-0.096	0.00	0	0	<out of range>
0.98	23.3	-0.030	-0.129	0.10	0	0	<out of range>
1.15	20.9	-0.020	-0.096	0.00	0	0	<out of range>
1.31	25.4	-0.010	-0.039	0.00	0	0	<out of range>
1.48	29.7	0.010	0.034	0.00	9	7	silty sand to sandy silt
1.64	26.0	0.010	0.038	0.10	9	7	silty sand to sandy silt
1.80	24.7	0.000	0.000	0.10	0	0	<out of range>
1.97	25.0	-0.010	-0.040	0.00	0	0	<out of range>
2.13	29.5	-0.010	-0.034	0.00	10	7	silty sand to sandy silt
2.30	36.6	0.320	0.874	0.10	11	7	silty sand to sandy silt
2.46	34.5	0.310	0.899	0.10	11	7	silty sand to sandy silt
2.62	28.7	0.250	0.871	0.00	10	7	silty sand to sandy silt
2.79	27.0	0.300	1.111	0.10	9	7	silty sand to sandy silt
2.95	26.6	0.290	1.090	0.00	11	6	sandy silt to clayey sil
3.12	28.7	0.300	1.045	0.00	9	7	silty sand to sandy silt
3.28	28.8	0.220	0.764	0.00	9	7	silty sand to sandy silt
3.44	29.6	0.350	1.182	0.00	10	7	silty sand to sandy silt
3.61	32.6	0.480	1.472	0.00	12	6	sandy silt to clayey sil
3.77	29.3	0.640	2.184	0.10	12	6	sandy silt to clayey sil
3.94	29.8	0.580	1.946	0.00	11	6	sandy silt to clayey sil
4.10	23.6	0.470	1.992	0.00	9	6	sandy silt to clayey sil
4.27	20.2	0.480	2.376	0.00	10	5	clayey silt to silty cla
4.43	19.5	0.760	3.897	0.00	13	4	silty clay to clay
4.59	22.0	1.000	4.545	0.00	20	3	clay
4.76	21.7	1.210	5.576	0.10	21	3	clay
4.92	21.6	1.190	5.510	-0.10	20	3	clay
5.09	20.6	1.170	5.679	0.10	20	3	clay
5.25	20.9	1.290	6.173	-0.10	21	3	clay
5.41	22.9	1.320	5.765	-0.20	21	3	clay
5.58	20.9	1.260	6.029	-0.10	20	3	clay
5.74	19.8	1.170	5.908	0.30	19	3	clay
5.91	19.5	1.170	5.998	0.50	20	3	clay
6.07	22.0	1.210	5.496	1.10	21	3	clay
6.23	23.0	1.250	5.432	0.90	22	3	clay
6.40	23.1	1.320	5.713	0.30	22	3	clay
6.56	23.2	1.370	5.906	-0.20	22	3	clay
6.73	23.1	1.460	6.322	-0.40	21	3	clay
6.89	20.5	1.450	7.077	-0.80	20	3	clay
7.05	18.6	1.310	7.048	-0.90	18	3	clay
7.22	17.1	1.140	6.669	-0.40	16	3	clay
7.38	16.0	1.010	6.313	0.00	16	3	clay
7.55	15.6	1.030	6.601	0.30	15	3	clay
7.71	15.3	1.020	6.665	0.20	15	3	clay
7.87	14.9	0.960	6.438	0.80	15	3	clay
8.04	15.4	1.000	6.489	0.80	15	3	clay
8.20	16.3	1.020	6.255	0.50	15	3	clay
8.37	16.5	1.020	6.178	0.80	16	3	clay
8.53	16.7	1.050	6.285	0.50	16	3	clay
8.69	16.1	1.010	6.272	0.20	15	3	clay
8.86	14.9	0.860	5.770	0.30	15	3	clay
9.02	14.7	0.820	5.576	0.40	14	3	clay

*Soil behavior type and SPT based on data from UBC-1983

Depth (ft)	Qt (TSF)	Fs (TSF)	Fs/Qt (%)	Pw (PSI)	SPT N* 60% Hammer	Zone	Soil Behavior Type UBC-1983
9.19	14.6	0.850	5.819	0.50	14	3	clay
9.35	13.4	0.860	6.414	0.50	13	3	clay
9.51	13.0	0.800	6.146	1.20	13	3	clay
9.68	12.8	0.730	5.695	1.20	12	3	clay
9.84	12.8	0.690	5.382	1.50	12	3	clay
10.01	12.8	0.670	5.226	1.50	12	3	clay
10.17	12.0	0.660	5.490	1.50	11	3	clay
10.33	10.6	0.610	5.744	1.40	10	3	clay
10.50	10.0	0.570	5.686	1.70	10	3	clay
10.66	10.8	0.570	5.262	2.30	10	3	clay
10.83	11.4	0.570	4.986	2.20	11	3	clay
10.99	12.0	0.580	4.820	2.30	11	3	clay
11.15	12.4	0.610	4.910	1.70	12	3	clay
11.32	12.1	0.600	4.949	1.70	11	3	clay
11.48	10.7	0.570	5.316	1.60	10	3	clay
11.65	9.8	0.500	5.089	1.70	9	3	clay
11.81	8.3	0.460	5.528	1.50	8	3	clay
11.98	7.5	0.390	5.186	1.40	7	3	clay
12.14	6.1	0.320	5.232	1.10	6	3	clay
12.30	6.1	0.280	4.575	1.40	6	3	clay
12.47	7.4	0.270	3.637	1.70	7	3	clay
12.63	8.3	0.290	3.484	1.70	8	3	clay
12.80	9.2	0.290	3.144	1.70	9	3	clay
12.96	9.1	0.290	3.178	1.70	6	4	silty clay to clay
13.12	9.7	0.310	3.188	1.60	6	4	silty clay to clay
13.29	10.2	0.320	3.130	1.70	6	4	silty clay to clay
13.45	10.3	0.320	3.099	1.80	7	4	silty clay to clay
13.62	10.3	0.320	3.099	1.80	7	4	silty clay to clay
13.78	10.5	0.300	2.850	1.90	7	4	silty clay to clay
13.94	11.8	0.330	2.790	2.00	8	4	silty clay to clay
14.11	12.9	0.370	2.862	2.00	8	4	silty clay to clay
14.27	12.8	0.370	2.884	2.00	8	4	silty clay to clay
14.44	12.2	0.350	2.862	2.10	8	4	silty clay to clay
14.60	12.0	0.340	2.826	2.20	8	4	silty clay to clay
14.76	12.4	0.360	2.895	2.30	8	4	silty clay to clay
14.93	12.7	0.390	3.063	2.40	8	4	silty clay to clay
15.09	12.5	0.430	3.430	2.50	8	4	silty clay to clay
15.26	12.5	0.430	3.430	2.60	8	4	silty clay to clay
15.42	13.8	0.440	3.179	2.80	9	4	silty clay to clay
15.58	16.4	0.450	2.752	3.60	10	4	silty clay to clay
15.75	16.5	0.610	3.707	3.70	11	4	silty clay to clay
15.91	20.4	0.740	3.635	3.90	10	5	clayey silt to silty cla
16.08	24.0	0.720	3.005	4.00	11	5	clayey silt to silty cla
16.24	22.8	0.780	3.428	3.90	12	5	clayey silt to silty cla
16.40	26.2	1.040	3.976	4.10	18	4	silty clay to clay
16.57	35.2	1.430	4.067	4.00	22	5	clayey silt to silty cla
16.73	74.5	2.380	3.193	3.20	31	6	sandy silt to clayey sil
16.90	132.9	2.790	2.099	-4.80	42	7	silty sand to sandy silt
17.06	189.4	1.680	0.887	-8.70	33	9	sand
17.22	201.4	1.090	0.541	-9.60	36	9	sand
17.39	172.0	0.750	0.436	-10.20	33	9	sand
17.55	137.9	1.110	0.805	-10.20	32	8	sand to silty sand
17.72	95.9	1.770	1.847	-10.30	31	7	silty sand to sandy silt
17.88	61.0	2.310	3.790	-10.30	28	6	sandy silt to clayey sil
18.04	58.7	2.330	3.973	-10.40	29	5	clayey silt to silty cla
18.21	60.6	2.360	3.897	-10.30	27	5	clayey silt to silty cla
18.37	49.3	2.170	4.405	-9.60	23	5	clayey silt to silty cla
18.54	36.9	1.480	4.014	-9.10	23	4	silty clay to clay
18.70	24.0	1.110	4.631	-9.10	17	4	silty clay to clay
18.86	17.9	0.810	4.533	-9.20	13	4	silty clay to clay

*Soil behavior type and SPT based on data from UBC-1983

Depth (ft)	Qt (TSF)	Fs (TSF)	Fs/Qt (%)	Pw (PSI)	SPT N* 60% Hammer	Zone	Soil Behavior Type UBC-1983
19.03	17.1	0.560	3.281	-9.00	11	4	silty clay to clay
19.19	16.0	0.440	2.755	-9.10	8	5	clayey silt to silty cla
19.36	16.0	0.460	2.880	-9.00	8	5	clayey silt to silty cla
19.52	16.8	0.520	3.101	-9.10	8	5	clayey silt to silty cla
19.69	17.8	0.590	3.320	-9.10	11	4	silty clay to clay
19.85	16.5	0.660	4.008	-9.10	10	4	silty clay to clay
20.01	13.4	0.560	4.189	-9.10	13	3	clay
20.18	10.5	0.410	3.916	-9.10	10	3	clay
20.34	9.0	0.320	3.568	-9.10	9	3	clay
20.51	9.0	0.280	3.122	-9.10	9	3	clay
20.67	9.9	0.310	3.142	-9.20	7	4	silty clay to clay
20.83	13.3	0.390	2.940	-9.20	9	4	silty clay to clay
21.00	18.4	0.550	2.994	-9.10	13	4	silty clay to clay
21.16	27.5	1.240	4.514	-9.10	18	5	clayey silt to silty cla
21.33	66.8	2.170	3.250	-9.10	23	6	sandy silt to clayey sil
21.49	84.5	2.380	2.818	-9.90	33	7	silty sand to sandy silt
21.65	158.7	2.000	1.261	-10.20	35	8	sand to silty sand
21.82	194.2	2.360	1.216	-10.30	41	8	sand to silty sand
21.98	165.2	3.570	2.162	-10.30	47	7	silty sand to sandy silt
22.15	80.5	4.080	5.071	-10.00	48	6	sandy silt to clayey sil
22.31	132.1	3.920	2.968	-9.90	42	7	silty sand to sandy silt
22.47	185.9	2.800	1.507	-10.20	45	8	sand to silty sand
22.64	249.8	1.530	0.613	-10.20	47	9	sand
22.80	299.7	1.360	0.454	-10.20	53	9	sand
22.97	288.8	2.740	0.949	-10.30	52	9	sand
23.13	229.0	4.040	1.765	-10.30	57	8	sand to silty sand
23.29	199.0	4.940	2.483	-10.30	58	8	sand to silty sand
23.46	302.6	4.900	1.619	-10.50	67	8	sand to silty sand
23.62	341.7	3.810	1.115	-11.00	65	9	sand
23.79	377.3	2.640	0.700	-11.10	60	10	gravelly sand to sand
23.95	409.8	1.770	0.432	-11.10	61	10	gravelly sand to sand
24.11	366.0	1.270	0.347	-10.70	56	10	gravelly sand to sand
24.28	281.2	1.100	0.391	-10.80	45	10	gravelly sand to sand
24.44	194.6	0.970	0.498	-10.70	40	9	sand
24.61	147.2	2.140	1.453	-10.60	32	9	sand
24.77	160.8	1.370	0.852	-10.60	36	8	sand to silty sand
24.93	145.7	1.060	0.727	-10.80	32	8	sand to silty sand
25.10	94.1	0.970	1.031	-8.90	23	8	sand to silty sand
25.26	42.2	1.110	2.628	-4.20	17	7	silty sand to sandy silt
25.43	21.0	0.910	4.326	-4.60	12	5	clayey silt to silty cla
25.59	13.6	0.480	3.541	-3.20	10	4	silty clay to clay
25.75	11.5	0.360	3.138	-1.80	8	4	silty clay to clay
25.92	10.9	0.360	3.308	5.70	7	4	silty clay to clay
26.08	10.8	0.420	3.891	6.50	10	3	clay
26.25	10.6	0.450	4.243	7.30	10	3	clay
26.41	10.8	0.410	3.790	8.20	9	3	clay
26.57	7.6	0.360	4.730	7.70	8	3	clay
26.74	5.7	0.330	5.746	3.00	5	3	clay
26.90	3.2	0.280	8.713	7.90	4	2	organic material
27.07	3.3	0.300	9.057	7.80	5	3	clay
27.23	8.2	0.390	4.749	7.80	8	3	clay
27.40	13.5	0.550	4.070	7.80	13	3	clay
27.56	18.0	0.680	3.786	11.20	11	4	silty clay to clay
27.72	21.7	0.740	3.412	13.00	13	4	silty clay to clay
27.89	19.3	0.720	3.734	12.50	13	4	silty clay to clay
28.05	19.4	0.690	3.557	13.70	12	4	silty clay to clay
28.22	17.4	0.630	3.618	14.80	11	4	silty clay to clay
28.38	15.4	0.530	3.434	16.10	10	4	silty clay to clay
28.54	14.0	0.500	3.584	17.50	9	4	silty clay to clay
28.71	13.9	0.470	3.377	22.20	9	4	silty clay to clay

*Soil behavior type and SPT based on data from UBC-1983

Depth (ft)	Qt (TSF)	Fs (TSF)	Fs/Qt (%)	Pw (PSI)	SPT N* 60% Hammer	Zone	Soil Behavior Type UBC-1983
28.87	13.8	0.470	3.395	23.90	9	4	silty clay to clay
29.04	14.8	0.470	3.182	25.80	9	4	silty clay to clay
29.20	15.2	0.470	3.090	28.40	7	5	clayey silt to silty cla
29.36	15.9	0.450	2.837	31.90	7	5	clayey silt to silty cla
29.53	15.2	0.430	2.825	36.30	7	5	clayey silt to silty cla
29.69	15.3	0.440	2.879	40.50	7	5	clayey silt to silty cla
29.86	14.5	0.460	3.168	43.20	7	5	clayey silt to silty cla
30.02	16.8	0.470	2.791	44.60	10	4	silty clay to clay
30.18	15.5	0.540	3.479	43.20	8	5	clayey silt to silty cla
30.35	16.6	0.510	3.070	49.40	10	4	silty clay to clay
30.51	17.1	0.550	3.207	45.00	10	4	silty clay to clay
30.68	15.0	0.550	3.660	29.60	10	4	silty clay to clay
30.84	12.6	0.500	3.971	27.10	12	3	clay
31.00	10.7	0.430	4.013	28.90	11	3	clay
31.17	10.3	0.380	3.705	31.60	10	3	clay
31.33	10.4	0.360	3.465	34.10	7	4	silty clay to clay
31.50	9.9	0.300	3.021	36.90	6	4	silty clay to clay
31.66	9.8	0.290	2.964	40.60	6	4	silty clay to clay
31.82	10.5	0.290	2.775	52.10	7	4	silty clay to clay
31.99	10.7	0.320	2.992	55.30	7	4	silty clay to clay
32.15	11.3	0.340	3.004	56.90	7	4	silty clay to clay
32.32	12.3	0.370	3.006	56.20	8	4	silty clay to clay
32.48	13.1	0.400	3.053	55.70	8	4	silty clay to clay
32.64	13.4	0.430	3.210	48.20	9	4	silty clay to clay
32.81	13.5	0.460	3.398	44.20	9	4	silty clay to clay
32.97	13.8	0.520	3.781	38.40	13	3	clay
33.14	13.4	0.650	4.863	32.30	16	3	clay
33.30	21.8	1.140	5.219	37.70	20	4	silty clay to clay
33.46	59.0	1.990	3.372	22.40	22	5	clayey silt to silty cla
33.63	59.7	1.880	3.150	-8.60	24	5	clayey silt to silty cla
33.79	32.4	1.150	3.553	-9.30	18	5	clayey silt to silty cla
33.96	23.2	0.610	2.633	-9.00	11	5	clayey silt to silty cla
34.12	16.1	0.550	3.422	-8.90	9	5	clayey silt to silty cla
34.28	19.7	0.860	4.371	-8.60	14	5	clayey silt to silty cla
34.45	52.3	1.530	2.927	-8.40	20	5	clayey silt to silty cla
34.61	51.8	1.760	3.399	-8.80	24	5	clayey silt to silty cla
34.78	44.3	1.900	4.292	-8.90	22	5	clayey silt to silty cla
34.94	41.6	1.830	4.402	-8.80	22	5	clayey silt to silty cla
35.10	50.3	1.880	3.740	-8.80	27	6	sandy silt to clayey sil
35.27	122.1	1.980	1.622	-9.00	34	7	silty sand to sandy silt
35.43	149.5	1.570	1.050	-9.30	34	8	sand to silty sand
35.60	159.8	1.370	0.857	-8.90	30	9	sand
35.76	153.6	0.920	0.599	-8.60	30	9	sand
35.93	154.4	0.900	0.583	-9.40	30	9	sand
36.09	155.5	1.010	0.650	-9.70	30	9	sand
36.25	165.4	0.900	0.544	-9.50	30	9	sand
36.42	156.4	0.960	0.614	-9.50	29	9	sand
36.58	130.3	0.860	0.660	-9.60	30	8	sand to silty sand
36.75	94.6	1.340	1.417	-9.90	22	8	sand to silty sand
36.91	55.5	1.470	2.651	-10.10	23	6	sandy silt to clayey sil
37.07	31.3	1.110	3.551	-10.10	16	5	clayey silt to silty cla
37.24	14.0	0.720	5.160	-10.10	13	4	silty clay to clay
37.40	16.1	0.610	3.799	-10.00	11	5	clayey silt to silty cla
37.57	38.5	0.620	1.612	-9.90	11	6	sandy silt to clayey sil
37.73	28.3	0.660	2.336	-9.90	12	6	sandy silt to clayey sil
37.89	26.6	0.440	1.657	-9.80	10	6	sandy silt to clayey sil
38.06	26.2	0.420	1.606	-9.80	10	6	sandy silt to clayey sil
38.22	22.9	0.600	2.625	-9.80	11	6	sandy silt to clayey sil
38.39	36.4	0.480	1.320	-9.70	14	6	sandy silt to clayey sil
38.55	49.5	0.790	1.597	-9.70	16	6	sandy silt to clayey sil

*Soil behavior type and SPT based on data from UBC-1983

Depth (ft)	Qt (TSF)	Fs (TSF)	Fs/Qt (%)	Pw (PSI)	SPT N* 60% Hammer	Zone	Soil Behavior Type UBC-1983
38.71	40.2	1.040	2.590	-9.70	16	6	sandy silt to clayey sil
38.88	37.9	1.090	2.879	-9.70	14	6	sandy silt to clayey sil
39.04	33.0	0.760	2.306	-9.70	14	6	sandy silt to clayey sil
39.21	40.7	0.710	1.746	-9.70	15	6	sandy silt to clayey sil
39.37	42.7	0.670	1.571	-9.70	14	7	silty sand to sandy silt
39.53	44.7	0.520	1.164	-9.60	14	7	silty sand to sandy silt
39.70	39.9	0.830	2.082	-9.70	13	7	silty sand to sandy silt
39.86	35.7	0.520	1.458	-9.60	14	7	silty sand to sandy silt
40.03	53.0	0.480	0.906	-9.70	14	7	silty sand to sandy silt
40.19	39.5	0.490	1.242	-9.60	12	7	silty sand to sandy silt
40.35	24.2	0.420	1.738	-9.60	10	6	sandy silt to clayey sil
40.52	15.6	0.300	1.928	-9.60	7	6	sandy silt to clayey sil
40.68	15.6	0.250	1.606	-9.40	7	5	clayey silt to silty cla
40.85	15.3	0.280	1.834	-9.40	7	5	clayey silt to silty cla
41.01	16.2	0.330	2.041	-9.30	8	5	clayey silt to silty cla
41.17	17.8	0.400	2.251	-9.30	7	6	sandy silt to clayey sil
41.34	19.4	0.230	1.188	-9.20	9	5	clayey silt to silty cla
41.50	16.5	0.460	2.793	-9.10	9	5	clayey silt to silty cla
41.67	19.2	0.480	2.504	-9.10	10	6	sandy silt to clayey sil
41.83	39.0	0.570	1.463	-9.00	12	6	sandy silt to clayey sil
41.99	34.5	0.660	1.915	-8.90	12	6	sandy silt to clayey sil
42.16	20.0	0.560	2.804	-8.80	9	6	sandy silt to clayey sil
42.32	15.9	0.390	2.457	-8.90	8	5	clayey silt to silty cla
42.49	13.8	0.290	2.105	-8.70	7	5	clayey silt to silty cla
42.65	13.0	0.300	2.312	-8.70	6	5	clayey silt to silty cla
42.81	13.7	0.470	3.437	-8.60	8	5	clayey silt to silty cla
42.98	23.3	0.570	2.449	-8.50	9	6	sandy silt to clayey sil
43.14	34.3	0.580	1.692	-8.50	11	6	sandy silt to clayey sil
43.31	29.6	0.660	2.231	-8.40	12	6	sandy silt to clayey sil
43.47	30.1	0.510	1.696	-8.40	11	6	sandy silt to clayey sil
43.64	25.8	0.670	2.599	-8.30	10	6	sandy silt to clayey sil
43.80	24.8	0.670	2.704	-8.20	10	6	sandy silt to clayey sil
43.96	26.7	0.540	2.024	-8.10	11	5	clayey silt to silty cla
44.13	20.6	0.530	2.575	-8.10	10	5	clayey silt to silty cla
44.29	15.7	0.480	3.060	-8.00	8	5	clayey silt to silty cla
44.46	16.6	0.490	2.954	-7.90	10	4	silty clay to clay
44.62	16.0	0.580	3.628	-7.90	10	4	silty clay to clay
44.78	15.0	0.510	3.403	-7.80	10	4	silty clay to clay
44.95	14.0	0.460	3.288	-7.70	9	4	silty clay to clay
45.11	15.3	0.430	2.812	-7.40	7	5	clayey silt to silty cla
45.28	15.6	0.420	2.693	-7.40	7	5	clayey silt to silty cla
45.44	15.8	0.440	2.786	-7.30	8	5	clayey silt to silty cla
45.60	16.9	0.470	2.782	-7.30	8	5	clayey silt to silty cla
45.77	17.8	0.460	2.585	-7.10	8	5	clayey silt to silty cla
45.93	17.3	0.440	2.544	-7.10	8	5	clayey silt to silty cla
46.10	18.0	0.480	2.667	-7.10	9	5	clayey silt to silty cla
46.26	19.7	0.870	4.416	-6.90	15	4	silty clay to clay
46.42	33.0	1.280	3.879	-6.90	18	4	silty clay to clay
46.59	32.0	1.120	3.500	-6.90	15	5	clayey silt to silty cla
46.75	30.3	1.180	3.894	-6.90	19	4	silty clay to clay
46.92	25.1	1.400	5.579	-7.20	18	4	silty clay to clay
47.08	29.8	0.870	2.920	-7.10	14	5	clayey silt to silty cla
47.24	33.0	0.710	2.152	-7.50	13	5	clayey silt to silty cla
47.41	19.1	0.600	3.142	-7.30	12	5	clayey silt to silty cla
47.57	21.1	0.590	2.796	-7.00	11	5	clayey silt to silty cla
47.74	28.9	0.680	2.353	-6.90	13	5	clayey silt to silty cla
47.90	32.3	1.100	3.405	-6.70	17	5	clayey silt to silty cla
48.06	44.4	1.580	3.558	-6.40	22	5	clayey silt to silty cla
48.23	61.2	2.540	4.150	-6.30	30	6	sandy silt to clayey sil
48.39	130.5	2.960	2.268	-6.30	39	7	silty sand to sandy silt

*Soil behavior type and SPT based on data from UBC-1983

Depth (ft)	Qt (TSF)	Fs (TSF)	Fs/Qt (%)	Pw (PSI)	SPT N* 60% Hammer	Zone	Soil Behavior Type UBC-1983
48.56	175.9	2.160	1.228	-7.50	39	8	sand to silty sand
48.72	181.6	1.600	0.881	-8.60	36	9	sand
48.88	200.2	1.690	0.844	-9.00	37	9	sand
49.05	200.8	1.690	0.842	-9.10	38	9	sand
49.21	190.1	1.200	0.631	-9.00	38	9	sand
49.38	197.0	0.900	0.457	-9.10	38	9	sand
49.54	208.5	2.070	0.993	-9.10	42	9	sand
49.70	251.7	3.300	1.311	-9.00	55	8	sand to silty sand
49.87	230.6	3.940	1.709	-8.90	58	8	sand to silty sand
50.03	240.3	3.230	1.344	-9.70	47	9	sand
50.20	263.5	2.000	0.759	-9.90	45	9	sand
50.36	202.3	1.860	0.920	-10.10	38	9	sand
50.52	134.1	2.140	1.596	-10.00	32	8	sand to silty sand
50.69	59.5	1.940	3.263	-9.90	28	6	sandy silt to clayey sil
50.85	24.4	1.110	4.557	-9.80	16	5	clayey silt to silty cla
51.02	17.0	0.470	2.771	-9.70	9	5	clayey silt to silty cla
51.18	16.9	0.390	2.313	-9.60	8	5	clayey silt to silty cla
51.35	17.3	0.410	2.375	-9.60	8	5	clayey silt to silty cla
51.51	17.7	0.370	2.095	-9.60	8	5	clayey silt to silty cla
51.67	18.2	0.410	2.257	-9.60	9	5	clayey silt to silty cla
51.84	20.6	0.440	2.140	-9.70	10	5	clayey silt to silty cla
52.00	21.2	0.490	2.316	-9.70	10	5	clayey silt to silty cla
52.17	21.5	0.470	2.190	-9.60	10	5	clayey silt to silty cla
52.33	20.4	0.420	2.063	-9.70	10	5	clayey silt to silty cla
52.49	19.2	0.380	1.983	-9.70	9	5	clayey silt to silty cla
52.66	18.0	0.350	1.949	-9.70	9	5	clayey silt to silty cla
52.82	17.1	0.330	1.934	-9.70	8	5	clayey silt to silty cla
52.99	16.5	0.280	1.701	-9.70	8	5	clayey silt to silty cla
53.15	15.6	0.270	1.735	-9.70	8	5	clayey silt to silty cla
53.31	15.2	0.240	1.583	-9.60	7	5	clayey silt to silty cla
53.48	15.2	0.250	1.649	-9.60	7	5	clayey silt to silty cla
53.64	15.4	0.260	1.693	-9.60	7	5	clayey silt to silty cla
53.81	15.8	0.310	1.967	-9.50	8	5	clayey silt to silty cla
53.97	17.2	0.340	1.981	-9.40	8	5	clayey silt to silty cla
54.13	17.3	0.350	2.027	-9.40	8	5	clayey silt to silty cla
54.30	17.1	0.330	1.934	-9.40	8	5	clayey silt to silty cla
54.46	16.8	0.290	1.730	-9.30	8	5	clayey silt to silty cla
54.63	15.9	0.280	1.765	-9.30	8	5	clayey silt to silty cla
54.79	15.6	0.270	1.734	-9.10	8	5	clayey silt to silty cla
54.95	16.0	0.290	1.816	-9.10	8	5	clayey silt to silty cla
55.12	17.0	0.300	1.767	-8.70	8	5	clayey silt to silty cla
55.28	17.3	0.300	1.736	-8.60	8	5	clayey silt to silty cla
55.45	17.3	0.310	1.794	-8.40	7	6	sandy silt to clayey sil
55.61	19.4	0.330	1.703	-8.40	7	6	sandy silt to clayey sil
55.77	21.8	0.340	1.561	-8.20	9	6	sandy silt to clayey sil
55.94	27.3	0.510	1.869	-8.10	12	5	clayey silt to silty cla
56.10	28.5	1.170	4.107	-7.90	19	6	sandy silt to clayey sil
56.27	92.6	1.370	1.480	-7.70	29	7	silty sand to sandy silt
56.43	147.5	1.440	0.976	-8.50	30	8	sand to silty sand
56.59	135.2	1.240	0.917	-8.70	30	8	sand to silty sand
56.76	90.1	1.520	1.688	-9.00	28	7	silty sand to sandy silt
56.92	39.5	1.040	2.635	-8.80	18	6	sandy silt to clayey sil
57.09	15.2	0.720	4.744	-8.60	11	5	clayey silt to silty cla
57.25	16.2	0.410	2.534	-8.40	7	5	clayey silt to silty cla
57.41	15.6	0.330	2.118	-8.20	7	5	clayey silt to silty cla
57.58	14.7	0.310	2.111	-8.10	7	5	clayey silt to silty cla
57.74	14.9	0.310	2.082	-7.90	7	5	clayey silt to silty cla
57.91	15.8	0.330	2.090	-7.70	7	5	clayey silt to silty cla
58.07	15.5	0.330	2.130	-7.60	8	5	clayey silt to silty cla
58.23	16.3	0.300	1.840	-6.90	8	5	clayey silt to silty cla

*Soil behavior type and SPT based on data from UBC-1983

Depth (ft)	Qt (TSF)	Fs (TSF)	Fs/Qt (%)	Pw (PSI)	SPT N* 60% Hammer	Zone	Soil Behavior Type UBC-1983
58.40	16.0	0.300	1.875	-6.80	8	5	clayey silt to silty cla
58.56	16.4	0.480	2.926	-6.50	9	5	clayey silt to silty cla
58.73	23.0	0.480	2.086	-6.30	9	6	sandy silt to clayey sil
58.89	27.5	0.380	1.381	-6.20	9	6	sandy silt to clayey sil
59.06	22.6	0.250	1.106	-6.10	8	6	sandy silt to clayey sil
59.22	14.0	0.250	1.784	-6.00	6	6	sandy silt to clayey sil
59.38	13.2	0.220	1.664	-5.70	7	5	clayey silt to silty cla
59.55	14.5	0.280	1.928	-5.50	7	5	clayey silt to silty cla
59.71	15.8	0.380	2.401	-5.20	8	5	clayey silt to silty cla
59.88	16.7	0.500	2.989	-5.00	8	5	clayey silt to silty cla
60.04	18.2	0.610	3.346	-4.90	9	5	clayey silt to silty cla
60.20	19.3	0.660	3.414	-4.80	0	0	<out of range>
60.37	19.7	-32768	-32768	-4.60	0	0	<out of range>
60.53	20.6	-32768	-32768	-4.50	0	0	<out of range>

*Soil behavior type and SPT based on data from UBC-1983