

APPENDIX. PHYSICAL PROPERTIES¹

Cynthia J. Bray and Daniel E. Karig, Department of Geological Services, Cornell University²

Section	Gravimetric Methods							Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity		
	Wet Bulk Density (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)	Wet Bulk Density (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Density (Mg/m ³)	Max. Sustained Wet Bulk Density (Mg/m ³)	Min. Porosity (%)	Wykham-Farrance (kPa)	Torvane (kPa)	Pocket Penetrometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)
								para.	perp.									para.	perp.	para.
582	1-1										1.47	1.69	59.2							
	1-2										1.43	1.68	60.0							
	1-3										1.45	1.61	64.2							
	1-4										1.47	1.62	63.4							
	1-5										1.51	1.62	63.4	4.8			6.43			
	1-6										1.51	1.68	60.0							
	3-1										1.35	1.50	71.0							
	3-2										1.37	1.50	71.0							
	3-3										1.42	1.58	66.0							
	3-4										1.40	1.58	66.0							
582A	1-1										1.58	1.70	58.6							
	1-2										1.41	1.64	62.2							
	1-3										1.53	1.75	55.4							
	1-4										1.61	1.80	52.5							
	1-5													2.6			35.33			
	1-6													•	4.0		35.42			
	2-1										1.61	1.75	55.4							
	2-2										1.54	1.80	52.5	5.1			40.52			
	2-2																40.56			
	2-3	1.728	35.24	59.4	B	2.77	E	42.11			1.47	1.65	61.8			2.9	42.13			
	2-4										1.41	1.65	61.8			5.4				
	2-5	2.097	36.51	74.7	B	2.77	E	45.47			1.51	1.68	60.0							
	2-6										1.44	1.65	61.8							
582B	2-2										1.54	1.66	61.1							
	2-3	1.845	27.34	49.2	B	2.77	E	62.15			1.53	1.65	61.8	14.7			62.15			
	2-3														7.8		62.34			
	2-4															36.6	62.87			
	2-4										1.57	1.70	58.6		7.8		63.85			
	2-4															38.5	64.02			
	2-5													12.7			64.83			
	3-1													13.8			69.20			
	3-1	1.715	35.97	60.2	B	2.77	E	69.27			1.48	1.69	59.2		4.9		69.22			
	3-2										1.51	1.66	61.1							
	3-3										1.54	1.68	60.0	27.2			71.80			
	3-3														9.8		71.86			
	3-3													7.9			72.20			
	3-CC	1.830	29.63	52.9	B	2.77	E	72.50												
	5-1													21.8			88.10			
	5-1	1.856	28.49	51.6	B	2.77	E	88.17			1.53	1.72	57.6		4.9		88.13			

¹ Kagami, H., Karig, D. E., Coulbourn, W. T., et al., *Init. Repts. DSDP*, 87: Washington (U.S. Govt. Printing Office).

² Address: Department of Geological Sciences, Cornell University, Ithaca, New York 14853.

	Gravimetric Methods							Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity			
	Wet Bulk Den- sity (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)	Wet Bulk Den- sity (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Den- sity (Mg/m ³)	Max. Sustained Wet Bulk Den- sity (Mg/m ³)	Min. Porosity (%)	Wykham- Farrance (kPa)	Torvane (kPa)	Pocket Pene- trometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)	
Section								para.	perp.									para.	perp.	para.	perp.
582B 5-2											1.56	1.75	55.4			72.1	88.95				
5-2																57.7	89.05				
5-2																57.7	90.27				
5-3														32.4			90.67				
5-3	1.815	30.73	54.4	B	2.77	E	90.93				1.55	1.70	58.6		11.8		90.69				
7-1											1.56	1.70	58.6								
7-2											1.50	1.68	60.0								
7-3	1.740	34.63	58.8	B	2.77	E	110.72				1.61	1.70	58.6	34.7			110.77				
7-3															24.0		110.81				
7-4	1.828	30.11	53.7	B	2.77	E	112.47	1.808	51.7	112.47	1.62	1.70	58.6	44.9			112.40				
7-5											1.57	1.75	55.4								
7-6											1.65	1.80	52.2			91.4	114.25				
7-6																91.4	114.93				
7-7											1.58	1.70	58.6								
8-1											1.52	1.70	58.6								
8-2											1.59	1.70	58.6								
8-3														47.6			119.42				
8-3	1.820	30.52	54.2	B	2.77	E	119.54								19.3		119.47				
9-1														26.3			126.35				
9-1	1.813	30.75	54.4	B	2.77	E	126.86				1.56	1.70	58.6				126.53				
10-1											1.64	1.75	55.5								
10-2														38.5			137.17				
10-2	1.836	29.70	53.2	B	2.77	E	137.27				1.66	1.78	53.8		12.2		137.23				
10-3											1.68	1.78	53.8								
10-4											1.59	1.80	52.5								
10-5																89.0	141.75				
10-5	1.825	30.22	53.8	B	2.77	E	142.04	1.747	55.6	142.04	1.63	1.73	56.8		30.8		142.04				
10-5														57.5			142.09				
10-5																125.0	142.45				
10-6																129.8	142.90				
12-1											1.68	1.80	52.5								
12-1	1.959	24.01	45.9	B	2.77	E	156.04	1.943	43.5	156.04	1.69	1.79	53.0		25.0		155.55				
13-1											1.40	1.70	58.6								
14-1											1.69	1.81	51.8	42.6			175.38				
14-1															21.1		175.32				
14-2											1.64	1.81	51.8					1.59	0.58	175.3	
14-3											1.63	1.78	53.8					1.64	0.57	178.4	
14-4											1.72	1.79	53.0								
14-5																72.1	180.06				
14-5															26.9		180.20				
14-5											1.66	1.80	52.5	44.7			180.22				
14-5																67.3	180.53				
14-5																		1.76	0.61	181.1	
14-6											1.71	1.80	52.5			82.8	181.30				
14-7														35.6			183.08				
14-7	1.929	25.34	47.7	B	2.77	E	183.16	1.865	48.3	183.16					26.0		183.12				
15-1											1.69	1.96	42.6								

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								para.	perp.									para.	perp.	
5828	15-2										1.61	1.81	51.8							
	15-3										1.65	1.79	53.0	73.3	30.8		186.16			
	16-1										1.67	1.90	46.3				186.71			
	16-2													57.9			194.74			
	16-2	1.907	26.29	48.9	B	2.77	E	194.85	1.840	50.0	194.85	1.67	1.81		57.7		194.78			
	16-3										1.62	1.80	52.5							
	18-1	2.041	18.68	37.2	B	2.77	E	213.43	1.831	50.4	213.43	1.62	1.90					1.81	0.51	213.9
	18-3													49.1			216.67			
	18-3														17.3		216.73			
	18-3	1.836	29.64	53.1	B	2.77	E	216.76	1.829	50.6	216.76	1.58	1.76							
	18-4										1.59	1.76	55.0							
	18-5	1.952	24.37	46.4	B	2.77	E	218.64	1.948	43.3	218.64	1.62	1.80							
	18-5															67.3	218.66			
	18-5															57.7	219.25			
	19-1															105.8	219.62			
	19-1	1.784	32.23	56.1	B	2.77	E	222.77	1.719	57.4	222.77	1.59	1.70				222.68			
	19-2	1.802	31.29	55.0	B	2.77	E	224.57	1.696	58.8	224.57	1.58	1.82		36.5		222.71			
	19-3											1.55	1.79				224.52			
	19-4											1.64	1.83							
	19-5											1.60	1.75							
	19-6													36.7			229.76			
	19-6	1.878	27.73	50.8	B	2.77	M	229.87	1.837	50.1	229.87				26.9		229.81			
	20-1											1.66	1.90							
	20-2	1.923	25.69	48.2	B	2.77	E	234.48	1.869	48.2	234.48	1.63	1.86				234.44			
	20-3											1.65	1.83							
	20-4											1.61	1.81							
	20-4															115.4	237.06			
	20-4															158.7	237.26			
	20-4															168.3	237.73			
	20-4															201.8	237.84			
	21-1											1.55	1.81							
	21-2	1.630	31.75	50.5	B	2.77	E	243.29				1.66	1.81							
	21-2	2.072	27.51	55.6	B	2.77	E	243.63	1.846	49.5	243.63				53.5	33.7	243.42			
	21-3	1.912	26.11	48.7	B	2.77	E	244.81				1.65	1.81				243.46			
	21-4											1.68	1.89							
	22-1	1.748	34.18	58.3	B	2.77	E	252.00				1.57	1.70							
	22-1	1.817	30.63	54.3	B	2.77	E	252.04												
	22-2	1.873	27.91	51.0	B	2.77	E	252.88				1.61	1.75							
	22-2	1.823	30.31	53.9	B	2.77	E	254.01	1.860	48.6	254.01									
	22-3											1.58	1.75		38.9		254.01			
	22-4											1.64	1.79		36.7		255.28	1.81	0.44	254.2
	22-5											1.59	1.81					1.70	0.61	256.4
	22-6																	1.74	0.33	259.7
	23-1											1.63	1.81							
	23-2	1.871	28.00	51.1	B	2.77	E	262.26	2.141	37.5	262.26	1.72	1.82		59.6		262.23			
	23-3											1.53	1.79							
	23-4											1.65	1.81					1.67	0.40	266.2
	23-5	1.715	31.34	55.1	B	2.77	E	266.87				1.62	1.81							

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	Wet Bulk Den- sity (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)		Wet Bulk Den- sity (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Den- sity (Mg/m ³)	Max.Sustained Wet Bulk Den- sity (Mg/m ³)	Min. Porosity (%)	Wykham- Farrance (kPa)	Torvane (kPa)	Pocket Pene- trometer (kPa)	Depth (m)		Compressional (km/s)	Shear (km/s)	Depth (m)	
Section									para.	perp.										para.	perp.	para.	perp.
582B 23-6												1.62	1.82	51.2			145.8	268.23					
23-6																	173.0	268.94					
23-7	1.825	30.22	53.8	B	2.77	E	269.83	1.746	55.6	269.83													
24-1	1.804	31.25	55.0	B	2.77	E	271.47	1.754	60.3	271.47	1.53	1.75	55.4										
25-1											1.70	1.84	50.0										
25-2	1.935	25.11	47.4	B	2.77	E	282.23	1.879	47.5	282.23	1.66	1.90	46.3	49.2				282.31					
25-3											1.66	1.78	53.8										
25-4																	127.9	284.59					
25-4																	52.9	285.40					
25-4	1.890	27.28	50.3	B	2.77	E	285.85	1.842	49.8	285.85	1.61	1.79	53.0				57.7	285.85					
25-4																	52.9	285.77					
25-5											1.60	1.80	52.5										
25-6											1.67	1.83	50.6				122.1	289.28					
25-6																	122.1	289.46					
25-7											1.66	1.83	50.6										
25-CC	1.880	27.20	49.9	B	2.77	E	289.62		1.825	50.9	289.62												
26-1	1.843	29.37	52.8	B	2.77	E	290.05	1.845	49.6	290.05	1.71	1.90	46.3										
26-2	1.829	30.37	54.2	B	2.77	E	291.11	2.133	31.9	291.11	1.73	1.90	46.3										
26-3											1.65	1.80	52.5										
26-4																	101.0	294.17					
26-4																	91.4	294.07					
26-4																	96.1	294.51					
26-4																	125.0	295.18					
26-4	1.839	29.60	53.1	B	2.77	E	295.33	1.825	50.9	295.33	1.65	1.79	53.0				154.4	295.39					
26-5											1.70	1.80	52.5										
26-6											1.66	1.80	52.5										
29-1											1.61	1.80	52.5										
29-2	1.849	29.10	52.5	B	2.77	E	319.93	1.803	52.2	319.93	1.67	1.80	52.5										
30-1											1.62	1.83	50.6										
30-2											1.56	1.87	48.0										
30-3											1.75	2.10	34.0										
30-4											1.73	1.90	46.3										
30-5	1.940	24.94	47.2	B	2.77	E	332.62	1.916	45.2	332.62	1.73	1.90	46.3										
30-5																	211.6	333.94					
30-5																	192.3	334.00					
30-5																	129.8	334.60					
30-5																	120.2	335.34					
30-5																	158.7	335.38					
30-6	1.864	28.37	51.6	B	2.77	E	336.24	1.914	45.4	336.24	1.77	1.90	46.3										
30-CC	1.970	23.67	45.5	B	2.77	E	336.51		1.949	43.2	336.51												
31-1	1.920	25.78	48.3	B	2.77	E	337.83	1.905	45.9	337.83	1.74	2.05	37.0										
32-1																40.4	347.38						
32-1	1.896	26.71	49.4	B	2.77	E	347.59				1.76	1.95	43.2			43.3	347.66	1.84		347.6			
32-1																50.0	347.76						
32-2											1.80	1.93	44.4										
32-3																	168.3	350.45					
32-3	1.998	22.11	43.1	B	2.77	E	351.29											351.09	1.71		351.3		
32-3	2.018	21.64	42.6	B	2.77	E	351.32	1.928	42.6	351.32													
32-3																	127.4	351.54					

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Section								para.	perp.									para.	perp.	para. perp.
582B 32-4																				
32-4															55.8		351.94			
32-CC	1.988	22.79	44.2	B	2.77	E	352.43	1.943	43.5	352.43					55.8		352.23			
33-1											1.69	1.90	46.3		55.8		357.02			
33-1															50.0		357.39			
33-2	1.999	22.41	43.7	B	2.77	E	358.88	1.952		43.7	358.88	1.76	1.92	45.0						
33-3												1.71	1.93	44.4						
33-3																96.2	359.68			
33-3																139.4	360.40			
33-4	2.138	19.99	41.7	B	2.77	E	362.19	1.960		42.5	362.19	1.73	1.90	46.3		115.4	360.75			
33-CC	2.075	19.51	39.5	B	2.77	E	362.55	1.863		48.4	362.55				68.3		363.81			
34-1	1.932	25.25	47.6	B	2.77	E	366.86	1.892		46.7	366.86	1.59	1.85	49.2						
34-CC	1.854	28.92	52.3	B	2.77	E	368.11	1.817		51.3	368.11									
36-1	1.966	22.99	44.1	B	2.77	E	385.60					1.61	1.90	46.3						
36-1	2.019	21.58	42.5	B	2.77	M	385.67	1.980		41.3	385.67									
36-CC	1.927	25.58	48.1	B	2.77	E	386.40	1.808		51.9	386.40									
37-1	1.968	23.80	45.7	B	2.77	E	394.95	1.930		44.4	394.95	1.78	1.92	45.0						
37-2												1.82	1.98	41.3						
38-1												1.67	1.89	47.0						
38-2												1.74	1.98	41.3						
38-3																				
38-3																201.9	406.88			
38-3	1.977	23.28	44.9	B	2.77	E	407.47	1.994		40.4	407.47	1.79	1.97	42.0		153.9	407.38			
38-4	2.033	21.02	41.7	B	2.77	E	408.37	2.056		36.7	408.37	1.76	2.00	40.2		177.9	407.67			
39-1	1.975	23.46	45.2	B	2.77	E	414.14	1.935		44.1	414.14	1.68	1.92	45.0						
39-2												1.76	1.98	41.3						
39-3												1.78	1.98	41.3	76.9		416.03			
39-4	1.952	24.42	46.5	B	2.77	E	418.53	1.945		43.4	418.53	1.79	1.95	43.2	86.5		418.91			
39-5												1.80	2.00	40.2						
39-6																>216.3	420.75			
39-6															73.1		421.10			
39-6	2.006	22.23	43.5	B	2.77	E	422.04	1.785		53.3	422.04	1.86	2.00	40.2		>216.3	421.13			
40-1												1.69	1.95	43.2						
40-2	1.960	24.00	45.9	B	2.77	E	424.65	1.920		45.0	424.65	1.76	1.98	41.3						
40-2	1.967	23.76	45.6	B	2.77	E	424.69													
40-CC	1.983	23.00	44.5	B	2.77	E	424.99	1.906		45.9	424.99									
41-1												1.78	1.95	43.2						
41-2	2.011	22.07	43.3	B	2.77	E	434.70	1.939		43.8	434.70	1.81	2.01	39.4						
41-3												1.78	1.98	41.3						
41-4	1.985	22.93	44.4	B	2.77	E	436.73	1.950		43.1	436.73	1.79	1.92	45.0						
41-5												1.73	1.91	45.6						
41-CC	1.949	24.45	46.5	B	2.77	E	439.12	1.894		46.6	439.12									
42-1	1.896	26.38	48.8	B	2.77	E	442.25					1.71	1.89	47.0				1.60		442.2
42-2												1.80	1.96	42.6						
42-3												1.75	1.99	40.8						
42-4	2.024	21.47	42.4	B	2.77	E	446.60	1.839		50.0	446.60	1.79	2.00	40.2		192.3	447.13			
42-5	2.184	22.39	47.7	B	2.77	E	447.70	1.973		41.7	447.70	1.79	1.98	41.3						
44-1												1.68	1.95	43.2						

	Gravimetric Methods							Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity				
	Wet Bulk Den- sity (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)	Wet Bulk Den- sity (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Den- sity (Mg/m ³)	Max.Sustained Wet Bulk Den- sity (Mg/m ³)	Min. Porosity (%)	Wykham- Farrance (kPa)	Torvane (kPa)	Pocket Pene- trometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)		
Section								para.	perp.									para.	perp.	para.	perp.	
582B 44-1											1.68	1.95	43.2									
44-2	1.770	25.31	43.7	B	2.77	E	462.24															
44-CC	2.024	21.42	42.3	B	2.77	E	462.85	1.827		462.85												
47-1											1.58	1.90	46.3									
47-CC	1.997	22.43	43.7	B	2.77	E	489.97	1.960		489.97												
47-CC	1.968	23.86	45.8	B	2.77	E	489.99	1.881		489.99												
48-1											1.83	2.05	37.0									
48-CC	1.986	23.07	44.7	B	2.77	E	499.76															
50-1	1.972	23.44	45.1	B	2.76	E	518.17	1.873		518.17	1.80	1.98	41.3									
50-2											1.90	2.05	37.0									
50-3											1.88	2.00	40.2									
50-4											1.85	2.00	40.2			>216.4	523.65					
50-5											1.89	2.02	38.8									
50-6	2.019	21.53	42.4	C	2.76	E	525.96				1.90	2.02	38.8									
50-CC	2.029	20.91	41.4	B	2.76	E	527.29															
51-1											1.80	2.00	40.2									
51-2	2.030	21.06	41.7	C	2.76	E	528.94	1.951		528.94												
51-2								1.995		40.4	1.86	2.00	40.2					1.94		0.44	539.3	
51-CC	2.068	19.58	39.5	B	2.76	E	529.49	1.804		529.49	1.74	1.96	42.6									
52-1											1.89	2.00	40.2									
52-2	1.987	22.70	44.0	C	2.76	E	539.26	1.924		539.26	1.86	2.00	40.2									
52-2								1.954		43.7	1.89	2.00	40.2									
52-3	1.995	22.35	43.5	C	2.76	E	541.10	1.915		541.10	1.89	2.00	40.2									
52-3								2.003		39.8	1.86	2.00	40.2			>216.4	541.40					
52-4																						
52-CC	1.922	25.55	47.9	B	2.76	E	542.35	1.968		542.35												
53-CC	1.866	23.57	42.9	C	2.76	M	546.70	1.931		546.70								1.72		0.35	546.7	
53-CC								1.984		44.0												
54-1											1.75	2.00	40.2									
54-CC																		1.83		0.55	558.6	
54-CC	1.983	22.90	44.3	C	2.76	E	558.55	1.935		558.55												
54-CC								1.929		44.5	1.79	1.99	41.3									
55-1	1.987	22.75	44.1	C	2.76	E	567.15	1.901		567.15												
55-1								1.919		45.1	1.84	2.02	38.8									
55-2											1.84	2.02	38.8									
55-3	1.906	25.71	47.8	C	2.76	E	569.53	1.802		569.53	1.84	2.00	40.2					1.87		0.47	569.5	
55-3								1.851		47.7												
55-4	1.986	22.97	44.5	C	2.76	E	570.14	1.914		570.14								1.81		0.45	570.1	
55-4											1.88	2.00	40.2									
55-CC	1.969	23.43	45.0	C	2.76	M	571.98															
56-1											1.64	1.80	52.5									
56-CC	1.948	24.36	46.3	C	2.74	M	577.30	2.178		577.30												
56-CC																						
57-1	1.927	25.26	47.5	M	2.75	E	585.77	1.925		585.77	1.66	1.95	43.2					1.88	1.63	0.15	577.3	
57-2											1.83	1.99	40.8					1.84	0.60	0.55	585.8	
57-3	1.977	23.23	44.8	M	2.75	E	588.53				1.79	1.94	43.8					1.80		0.50	588.5	
57-3	1.965	23.73	45.5	M	2.75	E	589.21	1.922		589.21								1.87		0.43	589.2	
57-4											1.86	1.99	40.8									

	Gravimetric Methods							Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity			
	Wet Bulk Den- sity (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)	Wet Bulk Den- sity (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Den- sity (Mg/m ³)	Max. Sustained Wet Bulk Den- sity (Mg/m ³)	Min. Porosity (%)	Wykham- Farrance (kPa)	Torvane (kPa)	Pocket Pene- trometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)	
Section								para.	perp.									para.	perp.	para.	perp.
582B 57-5											1.86	1.99	40.8								
57-CC	1.903	26.13	48.5	M	2.75	E	592.16				1.77	1.97	42.0					1.89		0.60	595.4
58-1	1.941	24.77	46.9	M	2.76	E	595.44	1.914	45.4	595.44	1.79	1.97	42.0								
58-2											1.77	1.97	42.0								
58-3											1.80	1.95	43.2					1.88		0.60	599.9
58-4	1.908	26.16	48.7	M	2.76	E	599.89	1.875	47.7	599.89	1.82	2.00	40.2								
58-5											1.88	2.03	38.3								
58-6											1.64	1.91	45.6					1.87		0.56	605.5
59-1	1.978	23.21	44.8	M	2.76	E	605.46	1.955	42.8	605.46	1.82	1.98	41.3					1.82		0.49	606.5
59-2	1.946	24.49	46.5	M	2.76	E	606.51	1.883	47.3	606.51	1.75	1.93	44.4								
59-3								1.887	47.0	607.73	1.69	1.92	45.0								
60-1											1.78	1.95	43.2								
60-2	2.048	21.27	42.5	M	2.82	E	615.83	1.861	48.6	615.83								1.86		0.56	615.8
60-2	1.957	24.98	47.7	M	2.82	E	615.87											1.88	0.69		615.9
60-CC	1.896	27.63	51.1	C	2.82	E	617.33	1.845	49.7	617.33	1.78	1.90	46.3					1.81	1.82	0.59	0.54
61-1											1.68	1.90	46.3								
61-2	1.925	26.36	49.5	M	2.82	E	625.51	1.820		625.51	1.77	1.93	44.4					1.84		0.55	625.7
61-3											1.78	1.93	44.4								
61-4	1.888	28.07	51.7	M	2.82	E	628.47	1.826	50.8	628.47	1.54	1.90	46.3					1.81		0.55	628.5
61-CC	1.887	27.98	51.5	M	2.82	M	629.22											1.86		0.58	629.2
62-1											1.72	1.90	46.3								
62-2								1.851	49.3	635.38	1.70	1.80	52.5								
62-2	1.901	27.39	50.8	M	2.82	M	635.50	1.824	50.9	635.50								1.87		0.59	635.5
62-3											1.78	1.90	46.3								
62-4	1.894	27.66	51.1	M	2.82	E	638.42	1.809		638.42	1.78	1.96	43.0					1.90		0.59	637.8
63-1											1.68	1.90	46.3								
63-2	1.949	25.31	48.1	M	2.82	E	644.42	1.914	45.3	644.42	1.70	1.83	50.6					1.88	1.82	0.53	0.52
63-2	1.939	25.69	48.6	M	2.82	E	644.48	1.859	48.7	644.48											
63-3											1.75	1.96	42.6								
64-1											1.69	1.90	46.3								
64-2	1.913	26.90	50.2	M	2.82	E	654.79	1.845	49.6	654.79	1.74	1.92	45.0								
64-2	1.903	27.36	50.8	M	2.82	E	654.83	1.834	50.3	654.83								1.88	1.85	0.57	0.56
64-3											1.74	1.90	46.3								
64-4											1.67	1.88	47.0								
64-5											1.75	1.92	45.0								
64-6	2.014	26.10	51.1	M	2.82	E	661.29	1.907	45.8	661.29	1.80	2.00	40.2					1.85	1.78	0.52	0.53
64-6	1.991	25.28	49.1	M	2.82	E	661.32	1.864	48.4	661.32											
66-2											1.75	1.97	42.0								
66-3	1.921	26.57	49.8	M	2.82	E	674.87	1.906	45.8	674.87	1.77	1.88	47.4					1.90		0.59	674.9
66-3	1.895	27.70	51.2	M	2.82	E	675.56	1.814	51.6	675.56								1.90		0.58	675.5
67-CC	1.926	27.04	50.8	M	2.82	E	687.50	1.858	48.8	687.50											
67-CC	1.913	27.38	51.1	M	2.82	E	687.60	1.821	51.1	687.60								1.93	1.89	0.59	0.64
68-1											1.70	2.01	39.4								
68-2	1.913	26.90	50.2	M	2.82	E	693.28	1.859	49.2	693.28								1.89	1.89	0.48	0.52
68-2	1.939	25.74	48.7	M	2.82	E	693.34	1.919	45.0	693.34											
68-CC	1.914	26.89	50.2	M	2.82	E	693.45														
70-1											1.71	1.92	45.0								
70-2											1.77	1.95	43.2								

	Gravimetric Methods							Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity				
	Wet Bulk Den- sity (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)	Wet Bulk Den- sity (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Den- sity (Mg/m ³)	Max.Sustained Wet Bulk Den- sity (Mg/m ³)	Min. Porosity (%)	Wykham- Farrance (kPa)	Torvane (kPa)	Pocket Pene- trometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)		
Section								para.	perp.									para.	perp.	para.	perp.	
582B	71-1	1.944	25.78	48.9	M	2.83	M	721.33	1.904	46.0	721.33	1.54	1.89	47.0				1.93	1.86	0.70	0.60	720.5
	71-1	1.967	24.75	47.5	M	2.83	E	730.16	1.894	46.5	730.16	1.72	1.99	40.8								721.3
	72-1	1.950	25.33	48.2	M	2.83	E	730.20		1.903	46.0							1.93	0.54			730.2
	73-1	1.965	24.72	47.4	M	2.83	E	740.36		1.883	47.2		1.87	48.0					1.86	0.61		740.3
	73-1	1.987	23.78	46.1	M	2.83	E	740.61		1.918	45.1								1.87	0.62		740.6
583	1-1	1.768	33.28	57.4	B	2.78	E	0.37	1.717	57.4	0.37	1.66	1.84	50.0	10.6		0.34					
	1-1															36.1	0.64		1.62	0.37	0.5	
	1-1															9.6	1.05					
	2-1											1.73	1.86	49.0	10.2		5.57					
	2-1																5.60					
	2-1															16.8	6.36					
	2-2																7.30					
	2-2	1.604	39.37	61.6	B	2.78	E	7.66	1.615	63.7	7.66	1.68	1.83	50.6		7.7	8.02	1.66	0.43	7.6		
	2-2														13.9		8.13					
	2-3																8.57					
	2-3											1.61	1.74	56.2		11.5	9.63					
	2-4																10.07					
	2-4														17.4		10.39					
	2-4	1.687	37.60	61.9	B	2.78	E	10.77	1.608	64.2	10.77	1.59	1.74	56.2			11.14					
	2-5											1.54	1.71	58.0		12.5	11.80					
	2-5																12.71	1.62	0.39	12.2		
	2-6											1.55	1.72	57.6	19.6		13.27					
	2-6																14.31					
	2-6																14.41					
	2-7															17.3	14.64					
	3-1															30.8	15.45					
	3-1	1.741	34.62	58.8	B	2.78	E	16.07	1.709	58.0	16.07	1.58	1.73	56.8	27.2		15.63					
	3-1															19.2	16.31	1.65	0.50	16.2		
	3-1																16.35					
	3-2															24.0	16.85					
	3-2											1.56	1.68	59.8	21.8		16.89					
	3-2																17.62					
	3-3																18.97					
	3-3											1.53	1.70	58.6		21.3	18.99					
	3-4	1.696	37.16	61.5	B	2.78	E	19.53	1.575	66.2	19.53	1.41	1.57	66.5			19.59	1.59	0.46	19.7		
	3-5	1.579	39.08	60.2	B	2.78	M	22.22	1.790	53.0	22.22	1.53	1.72	57.6								
	3-6											1.50	1.72	57.6			23.26					
	3-7														8.2		23.31					
	3-CC																24.02					
	4-1	1.717	35.94	60.2	B	2.78	E	23.28	1.638	61.1	23.28	1.62	1.81	51.8								
	4-2														26.3		24.60					
	4-2	1.662	39.09	63.4	B	2.78	E	25.47	1.582	65.8	25.47	1.59	1.99	40.8		21.2	25.58	1.87	0.44	25.5		
	4-2																25.59					
	4-3											1.59	1.70	58.6		28.9	27.02					
	4-3																27.05					
	4-4																28.19					

		Gravimetric Methods							Two-Minute GRAPE			Continuous GRAPE				Shear Strength				Velocity		
		Wet Bulk Den- sity (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est. Depth (m)		Wet Bulk Den- sity (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Den- sity (Mg/m ³)	Max. Sustained Wet Bulk Den- sity (Mg/m ³)	Min. Porosity (%)		Wykham- Farrance (kPa)	Torvane (kPa)	Pocket Pene- trometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)
Section								para. perp.												para. perp.	para. perp.	
583	4-4	1.717	34.33	58.5	B	2.78	E	28.27	1.653	61.4	28.27	1.65	1.87	52.0		30.8			28.30			
	4-5											1.56	1.72	57.6				28.9	29.99			
	4-6	1.729	35.33	59.6	B	2.78	E	31.47	1.702	59.7	31.47	1.61	1.71	58.0				57.7	31.48	1.90	0.52	31.4
	4-6															40.3	38.5		31.50			
	4-6																		31.57			
	5-1											1.45	1.61	64.2								
	5-2											1.54	1.66	61.0			21.2		34.30			
	5-2																	28.9	34.33			
	5-3											1.59	1.70	58.6		27.3			36.50			
	5-3																28.9		36.52			
	5-3															21.3			36.54			
	5-4																	52.9	36.55			
	5-5											1.59	1.70	58.6								
	5-5											1.53	1.71	58.0			17.3		37.35			
	5-6	1.828	30.23	53.9	B	2.78	E	40.17	1.696	58.7	40.17	1.55	1.65	61.8				14.4	37.37			
	5-7																9.6		49.63			
	5-7																	9.6	49.57			
	7-1																26.0		46.03			
	7-1	1.821	30.68	54.5	B	2.78	E	47.36	1.728	56.8	47.36	1.51	1.63	63.0				19.2	46.89			
	7-2											1.58	1.73	56.8			21.2		47.50			
	7-2																	24.0	47.71	1.89	0.51	47.6
	7-3											1.66	1.75	55.6		40.8			49.19			
	7-3																	67.3	49.23			
	7-4	1.900	33.88	62.8	B	2.75	M	50.46	1.673	60.2	50.46	1.64	1.77	54.2			38.5		50.55			
	7-4																	62.5	50.72	1.91	0.47	50.7
	7-5															43.5			50.77			
	7-6											1.66	1.80	52.5					53.44			
	7-6											1.57	1.72	57.6			28.9		53.48			
	7-6																	33.7	53.72			
	7-6																	33.7				
	8-1											1.51	1.72	57.6								
	8-2											1.63	1.73	56.8								
	8-3											1.59	1.76	55.0								
	8-4											1.49	1.73	56.8								
	8-5	1.748	33.83	57.7	B	2.75	E	62.30	1.679	59.8	62.30	1.47	1.70	58.6								
	9-1											1.59	1.71	58.0								
	11-1																	62.5	74.00			
	11-1																56.9		74.26	1.88	0.44	74.2
	11-1	1.829	29.75	53.1	B	2.75	E	74.32	1.759	54.9	74.32							105.8	74.28			
	11-1															67.1			74.36			
	11-2											1.64	1.70	58.6								
	13-1											1.43	1.73	56.8								
	14-1											1.42	1.68	59.6								
	14-CC	1.837	29.24	52.4	B	2.75	E	93.53	1.778	53.7	93.47											
	17-0								1.719	57.3	93.53											
	17-0																28.9		105.70			
	17-1																	108.2	105.74			
																		72.1	107.42			

	Gravimetric Methods							Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity			
	Wet Bulk Den- sity (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)	Wet Bulk Den- sity (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Den- sity (Mg/m ³)	Max.Sustained Wet Bulk Den- sity (Mg/m ³)	Min. Porosity (%)	Wykham- Farrance (kPa)	Torvane (kPa)	Pocket Pene- trometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)	
Section								para.	perp.									para.	perp.	para.	perp.
583	17-1															81.7	107.54				
	17-1	1.876	27.54	50.4	B	2.75	E 107.72	1.759		54.9 107.72	1.59	1.83	50.6		53.9		107.56	1.86	0.32	107.6	
	17-1										1.46	1.67	60.6		51.0		107.72				
	17-2										1.45	1.71	58.0								
	17-3																				
	19-1														36.5		117.19				
	19-1															62.5	117.21				
	19-1													68.2			117.68				
	19-1													49.1			117.72				
	19-1														40.4		117.83				
	19-1	1.929	25.14	47.3	B	2.75	E 118.04				1.74	1.86	48.8								
	19-1	1.841	29.17	52.4	B	2.75	E 118.39	1.819		52.6 118.39					31.7	86.5	117.85	1.92	0.37	118.0	
	19-1															72.1	118.43				
	19-1																118.45				
	19-2										1.67	1.83	50.6								
	20-1														33.7		122.51				
	20-1															81.7	122.54				
	20-1													67.5			122.58	1.61	0.29	122.7	
	20-1													75.5			122.87				
	20-1	1.903	26.28	48.8	B	2.75	E 122.92	1.799		52.3 122.92	1.66	1.84	50.0			105.8	122.92				
	20-2														38.5		122.99				
	20-CC	2.002	22.01	43.0	B	2.75	E 124.95	1.822		51.0 124.95											
	21-1										1.58	1.70	58.6			57.7	126.60				
	21-CC	2.004	21.89	42.8	B	2.75	E 126.80	1.904		46.0 126.80						72.1	129.90				
	23-2	1.789	31.68	55.3	B	2.75	E 137.92	1.737		56.2 137.92											
	23-3										1.37	1.65	61.8								
583A	1-1															14.4	0.34	1.83	0.49	0.3	
	1-1													8.4			1.22				
	1-1	1.566	45.43	69.4	B	2.81	E 1.34	1.521		69.5 1.34	1.65	1.78	53.7		2.9		1.30				
	1-2														6.7		1.71				
	1-2															0.0	2.90				
	1-2	1.652	40.07	64.6	B	2.81	E 2.97	1.628		62.9 2.97	1.67	1.82	51.2								
	2-1										1.65	1.72	57.6			9.6	4.18	1.82	0.52	4.2	
	2-1															9.6	5.28				
	2-2													11.9			5.70				
	2-2	1.685	38.15	62.7	B	2.81	E 5.65	1.627		63.0 5.65	1.61	1.70	58.6		9.8		5.76				
	2-2															0.0	5.82				
	2-3															0.0	7.06				
	2-3										1.62	1.72	57.6		15.7		7.89				
	2-4	1.664	39.35	63.9	B	2.81	M 8.60	1.604		64.4 8.60											
	3-1															4.8	9.75				
	3-1	1.646	40.42	64.9	B	2.81	M 9.86	1.461		73.2 9.86	1.53	1.71	58.0	13.9		23.1	9.85	1.81	0.45	10.1	
	3-1														20.2		10.15				
	3-1																10.17				
	3-2															14.4	11.74				
	3-2	1.718	36.34	60.9	B	2.81	E 11.80	1.667		60.5 11.80	1.57	1.66	61.0	13.5			11.80				
	3-3														18.3		12.04				

		Gravimetric Methods							Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity		
		Wet Bulk Density (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)	Wet Bulk Density (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Density (Mg/m ³)	Max. Sustained Wet Bulk Density (Mg/m ³)	Min. Porosity (%)	Wykham-Farrance (kPa)	Torvane (kPa)	Pocket Penetrometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)
Section									para. perp.										para. perp. para. perp.		
583A	3-3	1.766	33.73	58.1	B	2.81	E	12.72	1.715	57.6	12.72	1.58	1.68	59.8		19.2		12.45			
	3-3																9.6	13.45			
	4-1											1.44	1.60	64.8	9.8			14.76			
	4-1																9.6	14.80			
	4-1																	14.84			
	4-1															12.5		15.17			
	4-2															8.7		16.18			
	4-2															16.4		16.22			
	4-2	1.739	35.25	59.8	B	2.81	E	16.29	1.630	62.8	16.29	1.55	1.68	59.8	12.3		9.6	16.29			
	4-3																		1.62	0.53	17.1
	4-3														13.3		12.0	17.54			
	4-3																9.6	17.93			
	4-3	1.735	35.45	60.0	B	2.81	E	18.03	1.659	60.6	18.03	1.57	1.73	56.8		17.3		17.95			
	5-1											1.55	1.70	58.6							
	5-1																19.2	19.21	1.86	0.46	17.1
	5-2	1.706	36.96	61.5	B	2.81	E	21.30	1.650	61.5	21.30	1.52	1.63	63.6	15.5		28.9	20.30			
	5-2															24.0		21.30			
	5-3																9.6	21.91			
	5-3											1.57	1.67	60.6	24.0			22.13			
	5-3																19.2	23.03			
	5-3																	23.04			
	5-4											1.52	1.67	60.6		21.2		23.45			
	5-CC	1.768	33.91	58.5	B	2.81	E	24.10	1.724	57.0	24.10					19.2		23.78			
	6-1																				
	6-1											1.55	1.71	58.0		18.3	14.4	24.70			
	6-2	1.743	34.94	59.4	B	2.81	E	25.81	1.663	60.8	25.81	1.52	1.62	63.6			9.6	25.05			
	6-3																	25.81			
	6-3															21.2			1.57	0.41	27.1
	6-3																	27.35			
	6-3	1.691	37.77	62.3	B	2.81	E	28.45	1.653	61.4	28.45	1.43	1.62	63.6	16.8		14.4	28.30			
	6-4																19.2	28.40			
	7-1											1.28	1.48	72.6				28.74			
	7-2															21.2		30.73	1.91	0.45	30.5
	7-2														22.2			31.00			
	7-2	1.697	33.35	55.2	B	2.81	E	31.10	1.687	59.3	31.10	1.58	1.70	58.6			28.9	31.04			
	8-1														25.8			34.02			
	8-1																	34.02			
	8-1															12.5		34.20			
	8-1	1.752	34.58	59.1	B	2.81	E	34.69	1.641	62.1	34.69	1.52	1.63	63.0		17.3	19.2	34.51			
	8-1														18.1			34.73			
	8-1																	34.80			
	8-1																	35.00			
	8-1																	19.3			
	8-2																	24.0			
	8-2																	24.0			
	8-2											1.53	1.66	61.0		26.9		36.16			
	8-2																	36.26			
	8-2																	19.2			
	8-3																	24.0			
																		37.34			

	Gravimetric Methods								Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity					
	Wet Bulk Den- sity (Mg/m ³)		Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)	Wet Bulk Den- sity (Mg/m ³)		Porosity (%)	Depth (m)	Section Avg. Wet Bulk Den- sity (Mg/m ³)	Max.Sustained Wet Bulk Den- sity (Mg/m ³)	Min. Porosity (%)	Wykham- Farrance (kPa)	Torvane (kPa)	Pocket Pene- trometer (kPa)	Depth (m)	Compressional (km/s)		Shear (km/s)	Depth (m)	
Section									para.	perp.										para.	perp.	para.	perp.	
583A	8-3																	24.0	37.82					
	8-3	1.751	34.47	58.9	B	2.81	M	38.40	1.618		63.6	38.40	1.51	1.70	58.6			24.0	38.40		1.58		0.51	38.5
	8-4																23.1							
	8-4																	28.7	38.72					
	8-4																		38.80					
	9-1																24.0		38.83					
	9-1																20.2		39.06					
	9-1																	28.9	39.10					
	9-1	1.709	36.77	61.3	B	2.81	E	40.32	1.664		60.7	40.32	1.58	1.69	59.2			36.1	40.24					
	9-2	1.713	36.63	61.2	B	2.81	E	40.93	1.630		62.8	40.93	1.59	1.74	56.2		34.4		40.32					
	9-2																34.0		40.90					
	9-2																30.8		41.33					
	9-2																	33.7	41.90					
	9-3																		36.1	42.15				
	9-3																		38.5	42.43				
	9-3																	30.8	42.65					
	9-3	1.692	37.80	62.4	B	2.81	E	42.73	1.629		62.9	42.73	1.58	1.75	55.6		29.5		42.73		1.58		0.58	42.0
	9-4																		33.7	43.67				
	9-CC	1.711	36.67	61.2	B	2.81	E	44.08	1.523		69.4	44.08												
	10-1													1.41	1.61	64.2								
	10-2																	21.2		45.62				
	10-2																		9.6	45.70				
	10-2																	19.0		46.09				
	10-2																			46.15				
	10-2																	22.7		46.20				
	10-2																	22.7		46.52				
	10-3	1.743	34.98	59.5	B	2.81	E	46.35	1.649		61.6	46.35	1.55	1.63	63.0				33.7	46.52				
10-3	1.772	33.37	57.7	B	2.81	E	47.45	1.754		55.2	47.45	1.62	1.73	56.8				33.7	47.31		1.56		0.40	47.0
10-3																	22.6		47.49					
10-3																		21.2	47.58					
11-1													1.47	1.78	53.7									
11-2																	35.3		51.21		1.58		50.6	
11-2	1.712	36.71	61.3	B	2.81	E	51.27	1.648		61.7	51.27	1.57	1.73	56.3			28.6		51.30					
11-2																		33.7	51.32					
11-3																		28.9	52.21					
11-CC	1.766	33.66	58.0	B	2.81	E	52.56	1.794		52.8	52.56								62.5	54.00				
583B	1-1	1.811	31.52	55.7	B	2.81	M	0.15	1.777		53.7	0.15	1.69	1.82	51.2			57.7	0.12					
	1-1																24.0		0.88					
	1-1																17.8		0.90					
	1-1																		57.7	1.47				
	1-2												1.71	1.90	46.3		32.2		1.90					
	1-2																		72.1	1.94				
	1-2																	28.9	1.96					
	1-3																	26.9	4.24					
	1-3	1.728	35.83	60.4	B	2.81	E	4.29	1.669		61.7	4.29	1.61	1.82	51.2				72.1	4.33				
	1-4																	28.9	4.54					
	2-1																31.3		5.30					
	2-1																		48.1	5.54				

	Gravimetric Methods								Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity		
															</						

	Gravimetric Methods							Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity				
	Wet Bulk Den- sity (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)	Wet Bulk Den- sity (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Den- sity (Mg/m ³)	Max.Sustained Wet Bulk Den- sity (Mg/m ³)	Min. Porosity (%)	Wykham- Farrance (kPa)	Torvane (kPa)	Pocket Pene- trometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)		
Section								para.	perp.									para.	perp.	para.	perp.	
583C	2-1	1.822	30.89	54.9	B	2.80	E	32.82	1.832	50.4	32.82	1.63	1.80	52.5			52.9	30.16				
	2-2										1.70	1.80	52.5			96.2	33.41					
	2-3	1.796	32.07	56.2	B	2.80	E	33.84	1.734	56.8	33.84	1.65	1.79	53.0		36.5		33.43				
	2-3														63.1			34.15				
	2-CC	1.845	29.72	53.5	B	2.80	E	35.22	1.735	56.4	35.22						86.5	34.20				
	3-1	1.806	31.56	55.6	B	2.80	E	35.98	1.776	54.0	35.98	1.70	1.83	50.6	51.3		105.8	35.98				
	3-1															46.2		36.01				
	3-1											1.78	1.90	46.3	86.5			36.02				
	3-2																105.8	37.82				
	3-2															36.5		37.87				
	3-2																	37.93				
	3-3											1.70	1.90	46.3								
	3-CC	1.620	42.07	66.5	B	2.81	M	40.03	1.998	40.1	40.03											
	4-1	1.873	28.45	52.0	B	2.81	M	40.55	1.792	49.6	40.55	1.69	1.82	51.2		33.7	86.5	40.07				
	4-1											1.79	1.91	45.6				40.60				
	4-2																105.8	41.07				
	4-3														45.5			43.00				
	4-CC	1.868	27.54	50.2	B	2.81	E	43.22	1.843	46.8	43.22						105.8	43.17				
	4-CC														58.7			44.20				
	5-1	1.882	28.10	51.6	B	2.81	E	46.40	1.878	47.6	46.40	1.65	1.88	47.4			153.8	46.45				
5-2														90.5			47.88					
5-2	1.914	26.72	49.9	B	2.81	E	47.90	1.844	50.6	47.90	1.75	1.91	45.6		69.3		47.90					
5-2																129.8	47.96					
5-3																96.5	48.10					
5-CC																		1.89	0.50	48.9		
583D	3-1														76.9		66.48					
	3-1															84.1	66.52					
	3-1														21.2		66.60					
	3-1															96.2	66.61					
	3-1															84.1	66.73					
	3-1													52.7			66.80					
	3-1	1.790	32.59	56.9	B	2.81	E	66.85	1.699	58.6	66.85	1.60	1.73	56.8	49.9		66.90	1.59	0.36	66.9		
	4-1																75.83					
	4-1											1.68	1.98	41.3			75.96					
	5-1											1.72	1.97	42.0								
	6-1														76.3		96.28					
	6-1																96.31					
	6-1	1.881	28.06	51.5	B	2.81	E	96.39	1.836	50.2	96.39	1.63	1.81	52.5		30.8	105.8	96.34				
	6-2																105.8	96.54	1.57	0.23	96.6	
	6-2																125.0	97.00				
	6-2														47.1		97.02					
	6-2																153.8	97.42				
	6-2											1.80	1.89	47.0	66.7		97.45					
	6-3																115.4	97.97				
	6-3															46.2		98.34				
6-3	1.998	23.19	45.2	B	2.81	E	98.41	1.910	45.6	98.41	1.79	1.89	47.0	85.8		206.7	98.35					
																	98.70					

	Gravimetric Methods								Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity		
	Wet Bulk Den- sity (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)		Wet Bulk Den- sity (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Den- sity (Mg/m ³)	Max. Sustained Wet Bulk Den- sity (Mg/m ³)	Min. Porosity (%)	Wykham- Farrance (kPa)	Torvane (kPa)	Pocket Pene- trometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)
Section									para. perp.										para. perp. para. perp.		
583D 6-3																	177.9	98.74			
6-3																67.3	98.78				
6-CC	1.963	24.59	47.1	B	2.81	M	98.98	1.924	44.6	98.98							125.0	105.30	1.59	0.23	104.8
7-1																		105.50			
7-1	1.887	27.81	51.2	B	2.81	E	105.46	1.916	45.2	105.46	1.76	1.90	46.3		86.5			105.58			
7-1															99.6						
7-1																	139.4	105.66			
7-CC																52.9		105.85			
7-CC	2.026	22.01	43.5	B	2.81	E	106.09	1.863	48.6	106.09											
8-1																	173.1	114.00			
8-1																48.1		115.00	1.41	0.24	114.3
8-1	1.876	28.47	52.1	B	2.81	E	115.07	1.786	53.2	115.07	1.71	1.87	48.0				153.8	115.10			
8-1																57.7		115.20			
8-CC																	163.5	115.61			
9-1	1.900	27.41	50.8	B	2.81	E	115.83	1.760	54.2	115.83									1.93	0.51	123.8
9-2												1.66	1.89	47.0							
9-2	1.992	23.31	45.3	B	2.81	E	125.41	1.796	52.6	125.41		1.64	1.83	50.6	50.4			125.41			
9-3	1.913	26.68	49.8	B	2.81	E	127.87	1.893	46.5	127.87		1.59	1.73	56.8	74.1			127.87			
9-CC	2.003	22.93	44.8	B	2.81	E	128.25	1.919	45.0	128.25											
10-1																	153.8	133.41			
10-1																	153.8	133.48			
10-1																		133.55			
10-1	1.929	25.83	48.6	B	2.78	E	133.64	1.925	44.6	133.64	1.62	1.77	54.2		87.3		192.3	133.64			
10-1																	134.6	133.84			
10-1																					
10-2																	177.9	134.76	1.78	0.52	134.1
10-2																	211.5	134.95			
11-1												1.73	1.82	51.2					1.78	0.46	143.8
11-2	1.938	25.28	48.6	B	2.78	E	144.60	1.844	49.6	144.60					111.5			144.54	1.88	0.50	152.9
12-1												1.69	1.78	53.7							
12-2																					
12-2																					
12-2	1.975	23.93	46.1	B	2.78	E	154.43	1.741	56.0	154.43	1.75	1.79	53.0		106.3		177.9	154.13			
12-2																	153.8	154.17			
13-1																		154.30			
13-1																	197.1	154.60			
13-1																	201.9	163.44	1.75	0.30	163.0
13-1	1.949	24.82	47.2	B	2.78	E	163.67	1.833	50.4	163.67	1.71	1.88	47.4		82.2	48.1		163.61			
13-2												1.62	1.80	52.5				163.63			
13-2																		164.40			
14-1												1.73	1.90	46.3				165.00			
14-2												1.71	1.88	47.4	51.5				1.88	0.51	172.2
14-3	1.880	27.97	51.3	B	2.78	E	176.09	1.789	53.0	176.09		1.74	1.82	51.2							
14-4															106.5						
14-4																					
14-4																					
14-4	1.870	28.40	51.8	B	2.78	E	176.79	1.700	58.6	176.79	1.75	1.80	52.5				206.7	176.73			
14-CC	1.928	25.78	48.5	C	2.78	E	177.18	1.782	53.5	177.18							211.5	176.94			
14-CC								1.773	54.0	177.18											
15-1											1.67	1.84	50.0						1.80	0.45	183.0

	Gravimetric Methods								Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity																						
	Wet Bulk Den- sity (Mg/m ³)		Water Content (%)		Porosity (%)		Boyce, chunk, mini core		Grain Density (Mg/m ³)		Meas. or Est.		Depth (m)		Wet Bulk Den- sity (Mg/m ³)		Porosity (%)		Depth (m)		Section Avg. Wet Bulk Den- sity (Mg/m ³)		Max. Sustained Wet Bulk Den- sity (Mg/m ³)		Min. Porosity (%)		Kykham- Farrance (kPa)		Torvane (kPa)		Pocket Pene- trometer (kPa)		Depth (m)		Compression ¹ (km/s)		Shear (km/s)		Depth (m)		
Section									para. perp.													para. perp.		para. perp.																	
583D	15-2									1.839			49.8			184.93	1.76			1.97			42.0																		
	15-3																																								
	15-4																																								
	15-CC	1.926	25.81	48.5	M	2.78	E	185.04	1.867			48.4			185.04																										
	15-CC	1.918	26.24	49.1	M	2.78	E	185.07	1.865			48.2			185.07																										
	16-1																1.68			1.84			50.0																		
	16-2	1.898	27.17	50.3	B	2.78	E	194.26																																	
	16-2																																								
	16-3	1.969	24.00	46.1	B	2.78	E	195.85	1.909			45.6			195.85	1.95			2.07			35.8																			
	16-CC	1.984	22.73	44.0	B	2.75	M	196.11																																	
	17-1																1.78			2.00			40.2																		
	17-1																																								
	17-1																																								
	17-1																																								
	17-2																																								
	17-2																																								
	17-2	1.908	26.06	48.5	B	2.75	E	203.17	1.725			57.0			203.17																										
	17-CC																1.849			49.2			203.44																		
	19-1	1.939	24.58	46.5	B	2.75	E	220.93	1.838			44.0			220.93																										
	19-1																																								
	19-1																																								
	19-2	1.985	22.67	43.9	B	2.75	E	221.99	1.860			48.8			221.99	1.79			2.00			40.2																			
	19-3																1.63			1.80			52.5																		
	20-1	1.862	28.24	51.3	B	2.75	E	230.63																																	
	22-1																1.64			1.76			55.0																		
	22-2																1.55			1.76			55.0																		
	22-3																																								
	22-3	1.859	28.18	51.1	C	2.75	E	253.72	1.826			50.8			253.72	1.61			1.81			51.8																			
	22-4	1.860	28.27	51.3	C	2.75	E	253.93	1.743			55.9			253.93	1.70			1.82			51.2																			
	22-4	1.915	25.75	48.1	C	2.75	E	254.51	1.875			47.8			254.51																										
22-5																1.67			1.84			50.0																			
22-6																1.68			1.87			48.0																			
23-1																																									
23-1	1.883	27.21	50.0	C	2.75	E	259.54	1.732			56.6			259.54	1.67			1.85			49.2																				
23-1																																									
23-1																																									
23-2																																									
23-2	1.941	24.56	46.5	C	2.75	E	261.19	1.908			45.8			261.19	1.76			1.88			47.4																				
24-1																1.80			2.00			40.2																			
24-2	1.923	25.37	47.6	C	2.75	E	270.91	1.825			50.8			270.91	1.76			1.98			41.3																				
24-3																1.83			1.97			42.0																			
24-4																1.72			1.97			42.0																			
24-5	1.802	31.06	54.6	C	2.75	E	276.09	1.755			55.2			276.09	1.69			1.80			52.5																				
24-6																1.66			1.77			54.4																			
24-7																																									
24-7																																									
24-7																																									
24-CC	1.740	34.23	58.1	C	2.75	E	278.25	1.849			49.4			278.25																											

	Gravimetric Methods							Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity				
Section	Wet Bulk Den- sity (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)	Wet Bulk Den- sity (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Den- sity (Mg/m ³)	Max.Sustained Wet Bulk Den- sity (Mg/m ³)	Min. Porosity (%)	Wykham- Farrance (kPa)	Torvane (kPa)	Pocket Pene- trometer (kPa)	Depth (m)	Compressional (km/s)		Depth (m)		
																		para.	perp.		para.	perp.
583D 25-1											1.69	1.88	47.4			168.3	279.35	1.64	0.36	278.5		
25-2	1.983	22.80	44.1	C	2.75	E	280.64	1.853	49.2	280.64	1.74	1.87	48.0			76.9	280.31					
25-2																48.1	281.24					
25-2																100.9	281.55					
25-CC	1.940	24.67	46.7	C	2.75	E	280.99	1.821	51.1	280.99												
29-1											1.74	1.89	47.0									
29-2											1.79	1.90	46.3					1.85	0.28	318.6		
29-3	1.966	23.57	45.2	C	2.75	E	320.00	1.926	44.5	320.00	1.68	1.92	45.0									
29-3									1.913	45.4												
29-CC	2.023	20.93	41.3	C	2.74	M	321.57	1.953	42.8	321.57												
29-CC									1.922	44.8												
29-CC	2.032	20.73	41.1	C	2.74	E	321.62	1.929	44.4	321.62												
29-CC									2.036	37.8												
583E 1-CC	1.993	22.53	43.8	C	2.76	E	150.80	1.919	45.1	150.8												
583F H1-CC											1.48	1.80	52.5			153.8	150.00					
6-1																		1.78	0.53	200.5		
6-2																						
6-2	1.883	27.27	50.1	C	2.76	E	201.49				1.71	1.86	48.8			201.9	201.52					
6-3	1.886	27.18	50.0	C	2.76	M	201.90	1.873	47.8	201.90												
7-CC	1.930	25.23	47.5	M	2.76	E	208.30	1.932	44.2	208.30												
8-CC	1.964	23.75	45.5	C	2.76	E	218.19	1.974	41.4	218.19												
12-1	1.936	24.94	47.1	C	2.76	E	257.27	1.856	48.8	257.27	1.69	1.89	47.0									
12-1									1.863	48.5												
12-2											1.77	1.92	45.0					1.86	0.47	257.9		
12-3											1.79	1.91	45.6									
13-CC	1.950	24.23	46.1	B	2.76	E	266.67	1.886	47.1	266.67												
14-1											1.71	1.83	50.6									
14-2											1.76	1.94	43.8			158.7	278.45					
14-CC	2.017	20.89	41.4	B	2.76	M	278.69	1.938	43.8	278.69												
15-1											1.65	1.92	45.0			201.9	286.16					
15-CC	2.014	21.73	42.7	B	2.76	E	286.39															
16-1																>201.9	295.05					
16-1	1.907	26.23	48.8	B	2.76	E	295.67	1.858	48.7	295.67	1.71	1.91	45.6			158.7	295.76					
16-1									1.893	46.6												
16-CC	2.023	21.38	42.2	B	2.76	E	297.09	1.814	51.6	297.09												
17-1											1.79	1.95	43.2									
17-2	2.028	21.08	41.7	C	2.76	E	306.89	1.955	42.7	306.89	1.70	1.92	45.0									
17-2									2.031	38.2												
17-CC	2.022	21.39	42.2	B	2.76	E	314.00	1.959	42.6	314.00												
18-1	2.052	20.28	40.6	C	2.76	E	314.92	1.943	42.2	314.92	1.80	1.96	42.6					1.83	0.31	314.6		
18-1									2.018	38.8												
18-2											1.83	1.99	40.0			>216.3	316.26	1.64	0.35	315.7		
18-3	2.066	19.70	39.7	C	2.76	E	318.09	2.021	38.7	318.09	1.88	1.99	40.8									
18-CC	2.081	19.16	38.9	B	2.76	M	318.90															
19-1	2.037	20.58	40.9	C	2.75	E	324.68	2.020	38.8	324.68	1.77	1.91	45.6					1.82	1.75	0.42	0.37	324.4
19-1									1.967	42.2												

Section	Gravimetric Methods							Two-Minute GRAPE			Continuous GRAPE				Shear Strength				Velocity			
	Wet Bulk Density (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)	Wet Bulk Density (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Density (Mg/m ³)	Max. Sustained Wet Bulk Density (Mg/m ³)	Min. Porosity (%)	Wykham-Farrance (kPa)	Torvane (kPa)	Pocket Penetrometer (kPa)	Depth (m)	Compressional (km/s)		Shear (km/s)		Depth (m)
																		para.	perp.	para.	perp.	
583F 19-CC								1.918	45.2	325.02												
20-1	2.018	21.28	41.9	C	2.75	E	334.79	1.986	41.0	334.79	1.73	1.95	43.2									
20-1								1.963	42.4	334.79												
20-2											1.77	1.94	43.8							1.72	0.30	335.5
20-CC	2.010	21.47	42.1	C	2.74	M	336.35															
21-CC	1.987	22.80	44.2	C	2.76	M	343.40															
22-1	2.031	20.99	41.6	C	2.77	E	353.29	1.942	43.6	353.29	1.71	1.90	42.6									
22-1								1.912	45.4	353.29								1.87	1.52	0.43	0.35	354.1
22-2											1.81	1.96	42.6									
22-CC								2.058	36.4	355.10												
22-CC	2.118	18.15	37.5	C	2.79	E	355.10	2.035	38.1	355.10												
24-1	1.952	24.73	47.1	C	2.79	E	373.31	1.821	51.2	373.31	1.66	1.82	51.2									
24-2											1.70	1.86	49.8					1.47	1.66	0.39	0.34	374.8
24-3	1.948	25.00	47.5	C	2.79	E	375.59				1.69	1.85	49.2									
24-4											1.66	1.92	45.0									
24-5											1.79	1.93	49.4									
25-1											1.70	1.90	46.3									
25-2	2.015	22.08	43.4	B	2.79	E	383.43	1.941	44.6	383.43	1.72	1.86	49.8					1.81	1.66	0.34	0.31	382.6
25-CC	2.058	20.47	41.1	B	2.79	M	383.73	1.464	43.8	383.73												
25-CC																>216.3	391.20					
26-1											1.66	2.00	40.2									
26-2																						
26-2	2.042	21.03	41.9	C	2.79	E	394.17	1.945	43.4	394.17	1.75	1.87	48.0					1.25	1.71	0.35	0.30	393.8
26-3											1.62	1.87	48.2									
26-4											1.65	1.88	47.4									
26-CC	2.028	21.63	42.8	B	2.79	E	396.39	1.774	54.0	396.39												
27-1											1.62	1.87	48.2									
27-2	1.997	22.79	44.4	C	2.79	E	403.39				1.84	2.00	40.2									
27-CC	2.032	21.49	42.6	C	2.79	E	403.95															
28-1																						
28-1	1.983	23.36	45.2	C	2.79	E	411.47	1.901	46.2	411.47	1.54	1.92	45.0					1.32	1.56	0.35	0.26	411.4
28-CC	1.963	22.21	43.6	C	2.79	M	411.67	1.992	40.5	411.67												
29-1																						
29-1	2.050	20.80	41.6	C	2.79	E	421.05	2.005	39.8	421.05	1.67	1.93	44.4					1.23	1.60	0.40	0.35	421.0
29-1								1.986	40.4	421.05												
29-2											1.73	1.91	45.6									
29-CC	2.059	20.36	40.9	C	2.79	M	422.69															
583G H3-1											1.70	1.83	50.6			105.8	230.08					
H3-2											1.67	1.93	44.4									
H3-3											1.84	1.98	41.3									
H3-3																108.2	232.26					
H3-4																158.7	233.45					
H3-5											1.80	2.02	38.8			158.7	234.08					
H3-CC	2.040	20.70	41.2	B	2.77	E	237.52	1.958	42.6	237.52	1.80	1.95	43.2			201.9	235.84					
H4-1											1.71	1.91	45.6			158.7	258.81					
H4-2	1.990	22.77	44.2	C	2.77	E	259.67	1.936	44.0	259.67	1.80	1.91	46.6			158.7	259.81					
H4-3											1.77	1.96	42.6			168.3	262.02					

	Gravimetric Methods							Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity				
	Wet Bulk Den- sity (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)	Wet Bulk Den- sity (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Den- sity (Mg/m ³)	Max. Sustained Wet Bulk Den- sity (Mg/m ³)	Min. Porosity (%)	Wykham- Farrance (kPa)	Torvane (kPa)	Pocket Pene- trometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)		
Section								para.	perp.									para.	perp.	para.	perp.	
583G H4-3																168.3	262.20					
H4-CC	2.055	20.30	40.7	B	2.77	M	262.78	1.981	41.2	262.78						163.5	288.60					
H5-1											1.71	1.91	45.6			168.3	289.60					
H5-2											1.80	1.93	44.4									
H5-3											1.73	2.02	38.8									
H5-4											1.79	1.96	42.6			216.3	292.50					
H5-CC	1.967	23.71	45.5	C	2.77	E	293.62															
1-1								1.923	44.8	308.90	1.75	1.99	40.5									
1-2											1.71	1.98	41.3									
1-3											1.78	2.00	40.2			153.8	309.70					
1-3																153.8	310.50					
2-1	1.999	22.25	43.4	C	2.76	E	317.01	1.938	43.8	317.01	1.65	1.94	43.8									
2-2											1.78	1.94	43.8			168.3	317.76					
2-3	1.991	22.65	44.0	M	2.76	E	320.19	1.910	45.5	320.19	1.83	2.01	39.4									
2-4	1.958	23.82	45.5	M	2.76	M	320.77	1.857	42.3	320.77	1.82	1.96	43.0									
3-1											1.58	1.88	47.4									
3-2								2.000	40.1	328.73	1.78	2.00	40.2			177.9	328.50					
3-3											1.78	1.95	43.2									
3-4											1.77	1.88	47.4			173.1	330.46					
4-1								1.987	40.8	336.15	1.73	1.88	47.4									
4-2											1.81	1.93	44.4			>216.3	338.21					
4-3											1.73	1.93	44.4									
4-4	2.001	22.23	43.4	C	2.77	E	340.34	1.768	44.1	340.34	1.86	2.00	40.2			>216.3	340.42					
5-1											1.65	1.87	48.0			>216.3	346.54					
5-2	2.032	21.14	41.9	C	2.77	E	348.26				1.80	1.98	41.3									
5-3											1.80	1.96	42.6									
6-1											1.49	1.81	52.5									
6-2											1.73	1.86	48.8									
6-3											1.72	1.90	46.3									
6-4	1.966	24.03	46.1	M	2.79	E	360.96	1.928	44.4	360.96	1.76	1.92	45.0			>216.3	359.80	1.61	0.42	359.5		
6-CC	2.045	21.00	41.9	C	2.79	M	361.25	1.955	42.8	361.25												
7-1											1.57	1.88	47.4									
7-2	2.253	13.65	30.0	C	2.79	E	367.69	2.149	29.8	367.69	1.83	1.99	40.8									
7-3											1.72	1.85	49.2									
7-4											1.68	1.93	44.4									
7-5											1.67	1.90	46.3									
8-1											1.53	1.73	56.8									
8-2	1.941	25.14	47.6	M	2.79	E	377.32	1.878	47.6	377.32	1.67	1.86	49.8					1.65	0.32	375.9		
8-3	1.996	23.01	44.8	M	2.79	E	377.42	1.850	49.2	377.42	1.73	1.87	48.0					1.69		377.4		
8-3	2.064	20.16	40.6	M	2.79	E	378.09	1.983	41.4	378.09								1.76	0.34	378.1		
8-CC	1.980	23.50	45.4	C	2.79	E	379.50	1.883	47.2	379.50												
9-1											1.58	1.73	56.8									
10-1											1.58	1.90	46.3									
10-2	2.018	22.04	43.4	M	2.79	E	395.75	1.923	44.8	395.75	1.75	1.93	44.5									
10-3											1.78	1.99	40.8									
10-4	1.994	22.98	44.7	C	2.79	E	399.62	1.965	42.2	399.62	1.76	2.04	37.6									
10-5											1.88	2.07	35.8									
11-2	2.026	21.75	43.0	M	2.79	E	405.77	1.870	48.0	405.77	1.75	2.04	37.6									

	Gravimetric Methods								Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity		
Section	Wet Bulk Density (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)	Wet Bulk Density (Mg/m ³)		Porosity (%)	Depth (m)	Section Avg. Wet Bulk Density (Mg/m ³)	Max. Sustained Wet Bulk Density (Mg/m ³)	Min. Porosity (%)	Wykham-Farrance (kPa)	Torvane (kPa)	Pocket Penetrometer (kPa)	Depth (m)	Compressional (km/s)		Depth (m)
								para.	perp.										para.	perp.	
583G 11-3 11-CC 12-1 13-1 14-1 15-1 15-2 15-3	2.007	22.47	44.0	M	2.79	M	407.59	1.963	42.3	407.59		1.77	2.07	35.8					1.75	0.41	407.6
												1.57	1.90	46.3							
												1.59	1.99	40.8							
												1.63	1.86	49.8							
	1.946	26.23	49.8	M	2.79	E	442.97	2.033	37.9	442.97		1.78	1.96	42.6					1.71	0.37	442.0
	2.043	20.27	40.4	M	2.79	M	444.33	1.995	40.4	444.33		2.26	1.94	43.8					1.67		443.5
												1.70	2.06	36.4							
584 1-1 1-1 1-2 1-3 1-4 1-5 1-5 1-5 1-5 1-6 1-6 2-1 2-1 2-1 2-1 2-1 2-2 2-2 2-3 2-4 2-4 2-4 3-1 3-1 3-1 3-1 3-1 3-1 3-2 3-2 3-2 3-3 3-3 3-3 3-3 3-4 3-4 3-4 3-4 3-CC	1.572	44.40	68.1	B	2.74	M	1.11	1.276	85.3	1.11	1.49	1.62	65.3		0.0		0.10				
											1.49	1.60	66.5		0.0		1.40				
	1.459	52.56	74.8	B	2.74	E	4.35	1.370	79.8	4.35	1.41	1.59	67.1								
											1.43	1.50	72.3								
	1.473	51.50	74.0	B	2.74	E	6.33	1.403	77.5	6.33	1.44	1.52	71.1		52.9		4.92				
																69.2		6.34			
																67.3		6.40			
																12.5		7.13			
																	67.3		7.15		
												1.41	1.51	71.7		20.2		7.93			
																	125.0		7.94		
																	67.3		10.57		
																	52.9		11.40		
																	76.9		11.56		
		1.402	53.28	72.9	B	2.42	E	11.67	1.327	78.2	11.67	1.29	1.50	66.0		8.7		11.60			
												1.35	1.52	64.5	15.9			12.35			
																7.7		12.89			
		1.415	52.14	72.0	B	2.42	E	14.69	1.382	74.3	14.69	1.37	1.48	67.4		16.4		13.48			
		1.413	52.31	72.1	B	2.42	E	15.46	1.370	75.1	15.46	1.39	1.47	68.1	43.1			15.40			
																27.9		15.55			
																26.9		15.92			
																	144.2	20.31			
																23.1		20.34			
																34.9		86.5	20.55		
																		20.60			
		1.428	51.04	71.1	B	2.42	E	21.25	1.406	72.7	21.25	1.33	1.44	70.3		19.2		21.24			
																		86.5	21.27		
																		86.5	22.53		
												1.38	1.48	67.4	62.1	31.7		22.55			
																		52.9	22.57		
																		105.8	23.15		
																			23.39		
		1.379	55.46	74.6	B	2.42	M	24.29	1.282	81.7	24.29	1.40	1.50	60.0	52.1			23.71			
																	72.1	24.29			
											1.40	1.49	66.7	102.7			134.6	24.83			
																		25.27			
																58.7		25.41			
	1.402	53.29	72.9	B	2.42	E	25.92	1.378	74.7	25.92							168.3	25.43			

Section	Gravimetric Methods							Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity		
	Wet Bulk Density (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)	Wet Bulk Density (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Density (Mg/m ³)	Max. Sustained Wet Bulk Density (Mg/m ³)	Min. Porosity (%)	Wykham-Farrance (kPa)	Torvane (kPa)	Pocket Penetrometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)
								para.	perp.									para.	perp.	para.
584 4-1														55.0			30.15			
4-1																108.2	30.19			
4-1	1.432	50.67	70.8	B	2.41	E	30.28	1.461	68.5	30.28	1.36	1.43	70.7					1.56		30.3
4-2																86.5	31.08			
4-2											1.35	1.46	68.6	91.6		125.0	31.12			
4-3											1.35	1.42	71.5	63.1			33.00			
4-3															50.0		33.07			
4-3											1.71	1.49	66.4			76.9	33.96			
4-4																43.3	34.00			
4-4																91.3	34.03			
4-4											1.39	1.50	65.7				34.64			
4-5															44.2		37.85			
4-6														55.7			37.89			
4-6																105.8	37.91			
4-6	1.392	54.13	73.5	B	2.41	E	37.94	1.322	78.6	37.94	1.38	1.44	70.0			105.8	38.11			
4-7																163.5	38.73	1.56		37.9
4-7															52.9		38.75			
4-CC	1.361	53.84	73.3	B	2.39	E	38.92													
5-1															48.1		38.87			
5-1															115.4		38.90			
5-1														51.3			39.90			
5-1	1.373	55.60	74.5	B	2.39	E	39.95	1.333	77.4	39.95	1.35	1.46	68.1		42.3		40.13	1.56		39.9
5-2											1.35	1.43	63.7							
5-3														53.5			42.01			
5-3	1.332	59.72	77.6	B	2.39	E	42.07	1.350	76.1	42.07	1.36	1.46	68.1			115.4	42.04	1.52		42.1
5-3															26.9		43.05			
5-4											1.34	1.44	69.6			81.7	43.54			
5-5											1.33	1.41	71.8		38.5		45.12			
5-5																57.7	45.58			
5-6											1.35	1.46	68.1		12.5		46.61			
5-6																76.9	46.65			
5-7															38.5		48.12			
5-7																158.7	48.14			
5-7														62.3			48.18			
5-7	1.361	57.53	76.4	B	2.39	E	48.23	1.282	80.1	48.23							48.24	1.55		48.2
5-CC	1.322	58.93	76.0	B	2.39	M	48.41	1.328	77.7	48.41										
6-1																	115.4			
6-1																	197.1			
6-1	1.340	58.84	76.9	B	2.39	E	49.46	1.293	80.2	49.46	1.32	1.57	71.8		50.0		49.60	1.59		49.4
6-1														85.9			49.61			
6-2	1.375	55.39	74.3	B	2.39	E	51.01	1.233	84.6	51.01	1.36	1.48	66.7				49.92			
6-2																149.0	50.18	1.56		51.0
6-2																168.3	50.75			
6-2															50.0		50.84			
6-2														101.9			51.06			
6-3														103.1			51.41			
6-3																	51.43			
6-3																	216.3			
6-3																	51.52			

		Gravimetric Methods							Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity				
		Wet Bulk Den- sity (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)	Wet Bulk Den- sity (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg: Wet Bulk Den- sity (Mg/m ³)	Max.Sustained Wet Bulk Den- sity (Mg/m ³)	Min. Porosity (%)	Wykham- Farrance (kPa)	Torvane (kPa)	Pocket Pene- trometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)		
Section									para.	perp.									para.	perp.	para.	perp.	
584	6-3															42.3		51.54					
	6-CC	1.368	56.11	74.9	B	2.39	E	51.71	1.373	74.4	51.71												
	7-1											1.31	1.43	63.7			168.3	57.84					
	7-1																67.3	57.90					
	7-1																>216.3	57.92					
	7-1																132.2	58.18					
	7-1															28.9		58.81					
	7-1																134.6	58.98					
	7-2	1.421	60.08	77.8	B	2.39	E	59.48	1.308	79.2	59.48	1.33	1.42	64.5			67.3	59.70					
	7-2																57.7	60.51					
	7-CC	1.355	57.26	75.7	C	2.39	E	60.73	1.347	76.4	60.73								1.57	0.91	60.7		
	8-1	1.433	50.06	70.0	B	2.39	E	67.93	1.351	76.1	67.93	1.35	1.46	68.1					1.55		67.9		
	8-2	1.392	53.83	73.1	B	2.39	E	69.12	1.371	74.6	69.12	1.40	1.44	69.6					1.53		69.1		
	8-2																57.7	69.62					
	8-2																115.4	70.04					
	9-1																86.5	77.61					
	9-1	1.324	60.37	78.0	B	2.39	E	78.26	1.310	79.1	78.26	1.34	1.48	66.7			125.0	78.27					
	9-2																101.0	78.62					
	9-2	1.345	58.37	76.6	C	2.39	M	78.83	1.292	80.4	78.83	1.29	1.40	72.5			>216.0	78.84	1.56	0.89	78.8		
	9-2	1.334	59.39	77.3	B	2.39	E	78.89	1.320	78.3	78.89						192.3	79.15					
	10-1	1.353	57.49	75.9	C	2.39	E	86.82	1.308	79.2	86.82	1.33	1.43	63.7					1.55	0.93	86.8		
	10-2											1.35	1.45	68.9			168.3	88.03					
	10-2																201.9	89.36					
	10-3											1.35	1.48	66.7			>216.0	90.52					
	10-3																>216.0	90.83					
	10-4	1.434	50.10	70.1	C	2.39	E	91.59	1.442	69.4	91.59	1.37	1.48	66.7			>216.0	91.02	1.56		91.6		
	11-1	1.455	48.26	68.5	C	2.39	E	96.91	1.509	64.6	96.91	1.32	1.48	66.7					1.61		96.9		
	11-2	1.362	56.75	75.4	C	2.39	E	98.39	1.326	77.8	98.39	1.33	1.47	67.4					1.56		98.4		
	11-3											1.35	1.48	66.7									
	11-4	1.399	53.11	72.5	M	2.39	E	100.87	1.381	73.8	100.87	1.35	1.49	59.3					1.59		100.9		
	11-5											1.30	1.42	64.5									
	11-6											1.32	1.49	59.3									
	12-1	1.401	55.09	75.3	C	2.55	E	106.87	1.333	79.7	106.87	1.25	1.42	74.1					1.60		106.9		
	12-2	1.432	52.39	73.2	C	2.55	E	107.09	1.390	76.0	107.09	1.36	1.46	71.5					1.61		107.1		
	12-3											1.41	1.52	67.5									
	12-4											1.33	1.49	69.5									
	12-5	1.450	50.95	72.1	C	2.55	M	112.33	1.410	74.7	112.33	1.35	1.47	70.8					1.64		112.3		
	12-6											1.48	1.48	70.2									
	13-1											1.33	1.44	70.0									
	13-2	1.412	52.06	71.7	C	2.39	E	117.27	1.347	76.3	117.27	1.39	1.56	63.2					1.63		117.3		
	13-3											1.30	1.45	68.9									
	13-4											1.28	1.42	71.5									
	13-5	1.411	52.09	71.7	C	2.39	E	121.51	1.386	73.5	121.51	1.35	1.47	68.1									
	13-6											1.37	1.49	66.7									
	13-CC	1.342	58.58	76.6	C	2.39	M	124.50	1.309	79.1	124.50								1.55	1.01	124.5		
	14-CC	1.402	51.53	70.5	C	2.31	E	125.46	1.364	73.5	125.46								1.59		125.5		
	15-1	1.330	58.79	76.3	B	2.31	E	135.51	1.336	75.7	135.51	1.30	1.43	68.5									
	15-2											1.35	1.45	66.9									

		Gravimetric Methods						Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity		
		Wet Bulk Den- sity (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est. Depth (m)	Wet Bulk Den- sity (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Den- sity (Mg/m ³)	Max. Sustained Wet Bulk Den- sity (Mg/m ³)	Min. Porosity (%)	Wykham- Farrance (kPa)	Torvane (kPa)	Pocket Pene- trometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)
Section								para.	perp.									para.	perp.	
584	15-3	1.356	56.09	74.2	B	2.31	E	1.233		83.7	137.66	1.46	1.47	67.9				1.57		137.6
	15-4											1.43	1.50	63.0						
	15-CC	1.335	58.29	75.9	C	2.31	M	1.308	77.9	140.40								1.53	1.01	140.4
	16-1											1.33	1.45	66.9						
	16-2											1.36	1.50	63.0						
	16-3	1.370	54.86	73.3	B	2.31	E	1.327	76.3	148.01		1.36	1.50	63.0				1.57		148.0
	16-CC	1.411	50.76	69.9	C	2.31	E	1.404	70.4	148.15								1.58		148.2
	17-1											1.31	1.40	70.8						
	17-2	1.330	59.25	76.9	B	2.35	M	1.284	80.4	155.28		1.31	1.41	70.0						
	17-3											1.44	1.52	61.5						
	17-CC	1.313	69.50	77.5	B	2.31	M	1.251	82.3	157.65										
	18-1	1.341	58.03	75.9	C	2.34	M	1.174	88.4	163.46								1.60		163.5
	18-CC	1.332	58.96	76.6	C	2.34	M	1.249	82.9	164.11								1.58		164.1
	18-CC							1.305	78.6	164.11										
	19-1	1.381	54.78	73.8	B	2.38	E	1.252	83.1	173.36		1.25	1.47	67.1						
	19-2											1.33	1.43	70.1						
	19-3											1.30	1.43	70.1						
	19-4	1.353	57.50	75.9	C	2.38	E	1.276	81.4	177.89		1.43	1.40	72.3				1.58		177.9
	19-5											1.30	1.42	70.9						
	19-6											1.30	1.43	70.1						
	19-7	1.373	55.45	74.3	C	2.38	E	1.325	77.9	182.17								1.67		182.2
	19-CC	1.374	55.43	74.3	C	2.38	M	1.290	80.4	182.61								1.57	1.58	182.6
	19-CC							1.354	75.7	182.61										
	20-1	1.403	52.97	72.5	C	2.40	E	1.356	75.7	183.09		1.32	1.49	66.2				1.63	0.95	183.1
	20-2											1.40	1.49	66.2						
	20-3	1.404	52.94	72.5	C	2.40	E	1.325	78.1	187.13		1.38	1.50	65.4				1.58		187.1
	20-4											1.36	1.49	66.2						
	20-5	1.379	52.06	74.1	C	2.40	E	1.334	77.4	188.85		1.31	1.43	70.6				1.59		188.8
	20-6											1.28	1.43	70.6						
	20-CC	1.365	56.46	75.2	B	2.40	E	1.271	81.9	192.22										
	21-1											1.21	1.35	77.2						
	21-2											1.29	1.40	72.8						
	21-3											1.30	1.40	72.8						
	21-4											1.34	1.44	69.8						
	21-5	1.392	53.90	73.2	C	2.40	E	1.322	77.3	198.97		1.35	1.44	69.8				1.59		199.0
	21-6	1.412	51.96	71.6	C	2.40	E	1.375	74.4	201.39		1.36	1.46	68.4				1.60		201.4
	21-CC	1.391	54.02	73.3	C	2.40	M	1.279	81.3	202.02										
	22-1											1.37	1.47	67.6				1.67		203.1
	22-2											1.34	1.46	68.4						
	22-3											1.35	1.47	67.6						
	22-CC	1.414	52.05	71.8	C	2.40	E	1.394	73.0	207.06								1.56		207.1
	23-1	1.398	53.53	73.0	C	2.40	E	1.356	76.0	211.83		1.35	1.47	67.9				1.61		211.8
	23-2											1.35	1.49	66.4						
	23-3											1.35	1.50	65.7						
	23-4	1.430	50.76	70.8	C	2.41	E	1.382	74.1	217.37		1.43	1.45	69.3				1.60		217.4
	23-5											1.29	1.50	65.7						
	23-6											1.47	1.40	66.7						
	23-CC	1.424	51.17	71.1	C	2.41	E	1.375	74.7	220.62								1.61		220.6

		Gravimetric Methods							Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity				
		Wet Bulk Den- sity (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est. Depth (m)		Wet Bulk Den- sity (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Den- sity (Mg/m ³)	Max. Sustained Wet Bulk Den- sity (Mg/m ³)	Min. Porosity (%)	Wykham- Farrance (kPa)	Torvane (kPa)	Pocket Pene- trometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)		
Section									para.	perp.									para.	perp.	para.	perp.	
584	24-1	1.390	54.48	73.9	C	2.42	E 221.89		1.363	75.7	221.89	1.28	1.47	68.1						1.62		221.9	
	24-2											1.27	1.46	68.8									
	24-3	1.400	53.52	73.1	C	2.42	E 224.63		1.344	77.1	224.63	1.32	1.46	68.8					1.59		224.6		
	24-4											1.35	1.47	68.1									
	24-5	1.402	48.63	69.9	C	2.42	E 228.67		1.394	73.5	228.17	1.38	1.50	66.0					1.64		228.7		
	24-6											1.36	1.49	66.7									
	24-CC	1.477	46.83	67.5	C	2.42	M 230.17		1.462	68.7	230.17								1.65		230.2		
	25-1											1.37	1.50	66.0									
	25-2											1.28	1.50	66.0									
	25-CC	1.450	49.55	70.1	C	2.42	E 233.02		1.360	75.8	233.02								1.62		233.0		
	26-1	1.423	51.65	71.7	C	2.43	E 240.75		1.425	71.4	240.75	1.31	1.45	69.8					1.61		240.7		
	26-2												1.36	1.45	69.9								
	26-3	1.428	51.09	71.2	C	2.43	E 243.64		1.359	76.1	243.64	1.36	1.46	69.0					1.60		243.6		
	26-4	1.494	45.63	66.5	C	2.43	E 246.26		1.399	73.2	246.26	1.35	1.50	66.2					1.66		246.3		
	26-5												1.32	1.50	66.2								
	26-6												1.34	1.49	66.9								
	27-1	1.450	49.42	69.9	C	2.43	E 251.21		1.455	69.4	251.21	1.29	1.49	66.9					1.62		251.2		
	27-2												1.30	1.42	71.9								
	27-3												1.31	1.48	66.7								
	27-4												1.27	1.40	73.3								
	27-5	1.452	49.21	69.7	C	2.43	E 256.82		1.406	72.8	256.82	1.29	1.42	71.9					1.65		256.8		
	27-6												1.32	1.44	70.5								
	27-CC	1.496	45.48	66.4	C	2.43	M 258.68		1.454	69.4	258.68								1.65		258.7		
	28-1	1.500	45.30	66.3	C	2.43	E 260.18		1.478	67.6	260.18	1.41	1.57	61.2					1.66		260.2		
	28-2												1.33	1.44	70.5								
	28-3	1.446	49.14	69.6	C	2.43	E 262.80		1.354	76.4	262.80	1.41	1.53	64.1					1.63		262.8		
	28-4												1.39	1.54	63.4								
	28-5	1.445	49.73	70.1	C	2.43	E 266.67		1.422	71.6	266.67	1.39	1.50	66.2					1.66		266.7		
	29-1	1.452	48.65	68.9	C	2.40	E 269.22		1.427	70.6	269.22	1.30	1.50	65.4					1.64		269.2		
	29-2	1.488	45.59	66.2	C	2.40	E 270.52		1.431	70.3	270.52	1.41	1.50	65.4					1.66		270.5		
	29-3												1.40	1.56	64.7								
	29-4	1.433	50.30	70.3	C	2.40	E 274.43		1.399	72.7	274.43	1.39	1.49	66.2					1.65		274.5		
	29-5												1.37	1.49	66.2								
	30-1	1.472	46.51	66.8	C	2.37	E 279.02		1.454	68.0	279.02	1.34	1.47	66.9					1.64		279.0		
	30-2												1.35	1.46	67.7								
	30-3												1.32	1.46	67.7								
	30-4	1.469	46.75	67.0	C	2.37	M 283.64		1.451	68.1	283.64	1.37	1.47	66.9					1.64		283.6		
	30-5												1.39	1.52	66.0								
	32-1	1.500	44.61	65.3	C	2.39	E 298.26		1.453	68.6	298.26	1.31	1.50	65.2					1.69		298.3		
	32-2												1.44	1.55	61.5								
	32-3												1.35	1.51	57.9								
	33-1	1.486	45.72	66.3	C	2.39	E 307.14		1.480	66.5	307.14								1.65		307.1		
	34-1	1.480	46.68	67.4	C	2.42	E 316.91		1.545	62.7	316.91	1.36	1.50	66.0					1.65		316.9		
	34-1	1.480	46.68	67.4	C	2.42	E 316.91		1.545	62.7	316.91	1.36	1.50	66.0					1.65		316.9		
	34-2	1.525	43.09	64.1	C	2.42	E 318.41		1.463	68.5	318.41	1.44	1.53	63.8					1.68		318.4		
	34-3												1.46	1.53	63.8								
	34-4												1.45	1.53	63.8								
	34-5												1.45	1.54	63.1								

		Gravimetric Methods							Two-Minute GRAPE				Continuous GRAPE			Shear Strength				Velocity		
		Wet Bulk Den- sity (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)	Wet Bulk Den- sity (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Den- sity (Mg/m ³)	Max. Sustained Wet Bulk Den- sity (Mg/m ³)	Min. Porosity (%)	Wykham- Farrance (kPa)	Torvane (kPa)	Pocket Pene- trometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)	
Section									para. perp.										para. perp. para. perp.			
584	34-6	1.501	44.99	65.9	C	2.42	M	324.90	1.412	72.2	324.90	1.46	1.54	63.1					1.71		324.9	
	35-1	1.572	40.24	61.7	C	2.45	E	327.14	1.545	63.4	327.14	1.44	1.55	63.2					1.65		327.1	
	35-2											1.46	1.57	61.8								
	35-3	1.524	43.58	64.8	C	2.48	E	329.53	1.495	67.0	329.53	1.45	1.57	61.8					1.68		329.5	
	36-1	1.507	45.51	66.9	C	2.48	E	336.21	1.452	70.6	336.21	1.34	1.55	67.4					1.65		336.2	
	36-2											1.38	1.52	66.0								
	36-3											1.46	1.53	65.3								
	36-4	1.553	41.98	63.6	C	2.45	E	341.02	1.484	58.0	341.02	1.44	1.56	63.2					1.66		341.0	
	36-5											1.48	1.58	61.9								
	37-1	1.535	43.67	65.4	C	2.50	E	345.89	1.425	72.8	345.89	1.38	1.58	67.4					1.70		345.9	
	37-2											1.44	1.54	65.1								
	37-3											1.47	1.58	62.4								
	37-4											1.47	1.59	61.7								
	37-5	1.559	41.95	63.8	C	2.50	E	351.51	1.505	67.3	351.51	1.46	1.57	63.1					1.70		351.5	
	38-1	1.555	42.72	64.8	C	2.51	E	354.80	1.515	66.9	354.80	1.43	1.59	61.7								
	38-2											1.46	1.59	61.7								
	38-3											1.42	1.59	61.7								
	38-4	1.543	43.12	64.9	C	2.51	E	359.27	1.454	71.0	359.27	1.43	1.59	61.7					1.70		359.3	
	38-5	1.535	43.87	65.7	C	2.51	M	360.98	1.612	60.1	360.98								1.72		361.0	
	39-1	1.577	40.62	62.5	C	2.50	E	364.58	1.486	68.7	364.58	1.40	1.51	67.1					1.76		364.6	
	39-2											1.36	1.58	62.4								
	39-3	1.504	46.07	67.6	C	2.50	E	368.05	1.458	70.3	368.05	1.35	1.55	64.4					1.67		368.0	
	40-1	1.558	41.92	63.7	C	2.49	E	374.68	1.461	70.2	374.68	1.36	1.52	70.6					1.70		374.7	
	40-2											1.35	1.50	72.0								
	40-3											1.40	1.52	70.6								
	40-4	1.594	39.35	61.2	M	2.49	E	378.36	1.534	65.1	378.36	1.42	1.59	65.5					1.71		378.3	
	41-1	1.618	37.76	59.6	C	2.49	E	383.98	1.598	60.8	383.98								1.75		384.0	
	42-1	1.547	42.66	64.4	M	2.49	E	392.95	1.467	69.8	392.95	1.35	1.46	74.9					1.70		392.9	
	42-2											1.31	1.50	72.0								
	42-3											1.33	1.55	68.4								
	42-4	1.593	39.39	61.2	C	2.49	E	397.52	1.583	61.8	397.52								1.68		398.7	
	42-5											1.38	1.59	65.5								
	42-6	1.601	38.79	60.6	C	2.49	E	401.69	1.584	61.7	401.69								1.70		400.5	
	43-1											1.44	1.64	61.8								
	43-2	1.599	38.71	60.4	M	2.49	E	404.12	1.564	62.9	404.12	1.47	1.60	64.7					1.70		404.1	
	43-3											1.44	1.54	69.1								
	43-4	1.545	42.60	64.2	B	2.48	M	407.54	1.453	70.5	407.54	1.41	1.54	69.1								
	44-1											1.39	1.56	63.7								
	44-2											1.47	1.63	59.0								
	44-3											1.40	1.63	59.0								
	44-4	1.601	38.98	60.9	C	2.50	E	417.19	1.525	66.0	417.19	1.49	1.65	57.6					1.74		417.2	
	44-5	1.626	37.33	59.2	C	2.50	E	418.35	1.551	64.3	418.35	1.40	1.60	61.0								
	46-1	1.618	38.33	60.5	C	2.53	E	431.96	1.593	62.2	431.96	1.43	1.61	61.1					1.72		432.0	
	47-1											1.46	1.60	61.8								
	47-2											1.47	1.60	61.8								
	47-3											1.47	1.59	62.5								
	48-1	1.644	36.73	58.9	C	2.53	E	450.98	1.598	61.9	450.98	1.46	1.59	62.5					1.75		451.0	
	48-2								1.642	60.5	452.15	1.55	1.69	55.8								

	Gravimetric Methods							Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity			
	Wet Bulk Den- sity (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)	Wet Bulk Den- sity (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Den- sity (Mg/m ³)	Max.Sustained Wet Bulk Den- sity (Mg/m ³)	Min. Porosity (%)	Wykham- Farrance (kPa)	Torvane (kPa)	Pocket Pene- trometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)	
Section								para.	perp.									para.	perp.	para.	perp.
584 48-3											1.54	1.65	58.5								
48-4											1.57	1.72	55.6								
49-1	1.692	34.83	57.5	C	2.59	M	460.16	1.629	61.5	460.16	1.47	1.66	59.4					1.79		460.2	
49-2	1.621	39.15	61.9	C	2.59	E	462.15	1.598	63.3	462.15	1.46	1.68	58.1								
49-3											1.46	1.70	56.9								
49-4											1.43	1.62	62.0								
50-1	1.497	46.56	68.0	C	2.50	E	469.92	1.418	73.2	469.92	1.27	1.55	64.4					1.64		470.4	
51-1	1.597	38.26	59.6	C	2.44	M	480.33	1.562	62.0	480.33	1.33	1.55	62.9					1.70		480.3	
51-2											1.40	1.61	58.7								
51-3											1.34	1.53	64.3								
51-4											1.41	1.60	59.4								
52-1	1.597	40.06	62.4	C	2.54	E	489.80	1.528	66.8	489.80	1.36	1.59	62.7								
52-4											1.34	1.59	62.7								
52-3	1.559	42.61	64.8	C	2.54	M	492.16	1.439	72.6	492.16	1.37	1.60	62.0					1.72		492.1	
53-1	1.529	44.72	66.7	C	2.54	E	499.05	1.444	72.3	499.05	1.30	1.50	68.6					1.53		499.0	
53-2	1.560	42.44	64.6	C	2.54	E	500.75				1.39	1.58	56.8					1.56		500.7	
53-3											1.37	1.60	62.0								
54-1											1.37	1.58	56.8								
54-2	1.558	42.62	64.8	C	2.54	E	510.70	1.438	72.7	510.70	1.34	1.50	68.6					1.51		510.4	
54-3											1.34	1.48	70.0								
54-4											1.34	1.48	70.0								
54-5											1.31	1.47	70.6								
54-6	1.575	41.19	63.3	C	2.53	M	516.41	1.497	68.6	516.41	1.34	1.56	64.7					1.63		516.7	
55-1											1.29	1.50	68.2								
55-2	1.563	41.96	64.0	C	2.52	E	519.54	1.522	66.7	519.54	1.31	1.53	66.2					1.65		519.5	
55-3	1.581	40.65	62.7	C	2.52	E	521.78	1.462	70.6	521.78	1.38	1.60	61.5					1.69		521.8	
55-5	1.577	40.96	63.0	C	2.52	E	524.62	1.489	68.9	524.62	1.46	1.60	61.5								
56-1	1.615	37.63	59.3	C	2.50	E	527.19	1.522	66.2	527.19	1.40	1.54	64.6					1.73		527.2	
56-2											1.39	1.60	61.5								
56-3	1.464	40.83	58.3	C	2.48	E	530.45	1.500	67.3	530.45	1.39	1.64	57.7					1.58		530.4	
56-4											1.39	1.60	60.5								
56-CC	1.512	38.57	56.9	C	2.48	E	533.10	1.560	63.1	533.10											
57-1	1.678	33.97	55.6	C	2.50	E	536.68	1.648	57.7	536.68	1.40	1.60	61.0					1.86		536.7	
57-2											1.45	1.65	57.6								
57-3	1.634	36.89	58.8	C	2.50	E	540.94	1.523	66.2	540.94	1.44	1.80	47.5					1.62		540.9	
58-1											1.41	1.70	54.2								
58-2	1.784	27.93	48.6	C	2.50	E	548.23	1.785	49.3	548.23	1.58	1.76	50.2					1.82		548.2	
59-1	1.854	27.81	50.3	C	2.69	E	555.83	1.772	55.1	555.83	1.50	1.70	59.5					1.85		555.8	
59-2											1.53	1.70	59.2								
59-3	1.679	34.67	58.2	C	2.69	M	558.73	1.577	66.8	558.73	1.52	1.72	58.2					1.84		558.7	
60-1	1.917	22.89	42.8	C	2.58	M	565.59	1.969	39.3	565.59	1.57	1.78	51.4					1.92		565.6	
60-2											1.61	1.83	48.2								
61-1	1.719	33.46	56.1	C	2.60	E	575.10	1.651	60.3	575.10	1.47	1.65	60.3					1.76		575.1	
61-1	1.746	31.81	54.2	C	2.60	E	575.40	1.654	60.0	575.40								1.97		575.4	
61-2											1.61	1.73	55.2								
62-1	1.771	30.85	53.3	C	2.62	E	584.81	1.669	59.6	584.81	1.43	1.60	63.9					1.66		584.8	
62-2											1.41	1.60	63.9								
62-3	1.726	33.32	56.1	C	2.62	E	587.76	1.595	64.1	587.76	1.47	1.62	62.7					1.69		587.7	

	Gravimetric Methods								Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity		
	Wet Bulk Den- sity (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)		Wet Bulk Den- sity (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Den- sity (Mg/m ³)	Max. Sustained Wet Bulk Den- sity (Mg/m ³)	Min. Porosity (%)	Wykham- Farrance (kPa)	Torvane (kPa)	Pocket Pene- trometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)
Section								para. perp.											para. perp.	para. perp.	
584 62-4									1.735	55.5	590.32	1.50	1.70	54.2					1.81		590.3
62-5	1.808	28.85	50.9	C	2.62	E	590.32					1.54	1.72	56.4							
63-1	1.870	27.08	49.4	C	2.69	E	595.02		1.778	54.7	595.02	1.48	1.72	58.2					1.97		595.0
63-2												1.48	1.68	60.7							
63-3	1.855	27.79	50.3	C	2.69	M	597.12		1.787	54.2	597.12	1.62	1.80	53.5					1.91		597.1
64-1	1.867	27.23	49.6	C	2.69	E	603.90		1.710	58.8	603.90	1.53	1.70	59.2					1.95		603.9
65-1	2.013	21.84	42.9	C	2.76	M	613.17		1.893	33.6	613.17	1.70	1.85	52.4					2.03		613.2
65-2	2.006	22.12	43.3	C	2.76	E	615.65		1.977	28.6	615.65	1.76	1.90	49.6					2.05		615.6
66-1	1.968	20.62	39.6	C	2.70	M	623.80		1.999	27.8	623.80	1.70	1.90	47.8					1.99		623.7
67-1												1.77	1.98	42.6							
67-2	1.879	26.62	48.8	C	2.69	M	634.11		1.803	47.9	634.11	1.70	2.01	40.8					1.92		634.1
68-1	2.018	18.79	37.0	C	2.60	E	642.29		2.057	34.5	642.29								1.94	0.70	642.3
68-2	1.817	28.10	49.8	C	2.60	M	644.15		1.783	51.9	644.15								1.81	0.82	644.1
69-1												1.62	1.97	40.0							
70-1	1.902	25.28	46.9	C	2.62	M	661.53		1.845	47.9	661.53	1.59	1.85	48.3					1.87		661.5
70-2	1.911	23.92	44.6	C	2.62	E	663.57		1.903	44.2	663.57	1.62	1.79	52.0					1.88	0.57	663.6
71-1	2.003	23.33	45.6	C	2.69	E	672.24		1.853	50.3	672.24	1.58	1.88	48.6					1.98	0.65	672.2
71-2	1.904	25.35	47.1	C	2.69	M	672.43		1.849	50.5	672.43								1.87	0.62	672.4
72-1	1.955	22.97	43.8	C	2.68	E	681.42		1.886	48.0	681.42	1.57	1.86	48.6					2.06	0.61	681.4
73-1	1.912	24.39	45.5	C	2.65	E	690.91		1.848	49.4	690.91	1.56	1.79	52.9					1.98	0.83	690.9
74-1	1.732	33.14	56.0	C	2.63	M	700.16		1.658	60.6	700.16	1.45	1.65	61.1					1.83	0.55	700.2
74-1	1.860	26.50	48.1	C	2.63	E	701.29		1.714	57.0	701.29								1.90	0.53	701.3
74-2												1.61	1.75	54.8							
75-1												1.45	1.75	54.0							
75-2									1.834	48.6	711.79	1.50	1.90	44.4					1.99	0.80	711.8
75-2	1.735	32.97	55.8	C	2.60	E	712.32		1.626	61.8	712.32								1.82	0.61	712.3
76-1	1.787	29.54	51.5	C	2.60	E	719.38		1.687	57.9	719.38	1.53	1.73	55.2					1.99	0.80	719.4
76-2	1.859	25.86	46.9	C	2.60	E	721.41		1.797	50.9	721.41	1.58	1.80	50.8					1.97	0.69	721.4
76-3												1.56	1.80	50.6							
77-1	1.751	31.49	53.8	C	2.60	E	729.80					1.43	1.65	60.3					1.88	0.52	729.8
77-2	1.774	29.58	51.2	C	2.56	M	731.10		1.764	51.8	731.10	1.45	1.65	60.3					1.81	1.02	731.1
78-1	1.751	29.50	50.4	C	2.55	E	739.99		1.671	57.6	739.99	1.42	1.68	57.0					1.95	0.66	740.0
78-2	1.658	36.21	58.6	C	2.55	E	741.06		1.553	65.4	741.06	1.39	1.65	59.0					1.78	0.67	741.1
78-3												1.46	1.75	55.7							
79-1	1.778	29.11	50.5	C	2.55	E	749.33		1.739	53.1	749.33	1.41	1.65	59.0					1.86	0.70	749.3
79-2												1.38	1.68	57.0							
79-3	1.727	31.99	53.9	C	2.55	E	751.42		1.651	59.0	751.42								1.79	0.83	751.4
80-1	1.634	35.32	56.3	C	2.47	E	757.83		1.613	59.2	757.83	1.37	1.60	60.2					1.78	0.97	757.8
80-2	1.654	35.01	56.5	C	2.47	E	759.96		1.611	59.3	759.96	1.42	1.70	53.3					1.87	0.60	760.0
80-3									1.475	68.8	761.34	1.36	1.65	56.7					1.90	0.61	761.3
80-4												1.36	1.65	56.7							
80-5												1.54	1.78	47.8							
81-1									1.890	44.9	767.88	1.56	1.75	49.1					1.89	0.87	767.9
81-2												1.42	1.80	45.6							
81-3	1.708	31.33	52.2	C	2.45	E	770.15		1.630	57.5	770.15	1.46	1.72	51.2					1.99		770.1
83-1	1.643	33.06	53.0	C	2.37	E	786.46		1.654	52.1	786.46	1.48	1.70	48.7					1.98	0.70	786.5
83-2	1.652	32.52	52.4	C	2.37	M	788.16		1.658	51.8	788.16	1.39	1.50	63.9					1.89		788.2
83-3	1.597	36.26	56.5	C	2.34	E	789.57		1.544	60.5	789.57	1.50	1.72	47.1					1.69	0.60	789.6

Section	Gravimetric Methods							Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity		
	Wet Bulk Density (Mg/m ³)	Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)	Wet Bulk Density (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Density (Mg/m ³)	Max. Sustained Wet Bulk Density (Mg/m ³)	Min. Porosity (%)	Wykham-Farrance (kPa)	Torvane (kPa)	Pocket Penetrometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)
								para.	perp.									para.	perp.	
584	83-4										1.54	1.75	44.9							
	85-1	1.616	35.15	55.4	C	2.35	E 806.84	1.600	56.6	806.84	1.33	1.55	60.1					1.85	0.66	806.8
	85-2	1.648	32.91	52.9	C	2.35	E 808.11	1.634	54.1	808.11	1.51	1.78	42.6					1.95	0.71	808.1
	86-1	1.662	32.44	52.6	C	2.37	E 815.76	1.620	55.7	815.76	1.39	1.70	49.8					1.84	0.77	815.8
	86-2										1.44	1.65	53.5							
	87-1	1.628	34.62	55.0	C	2.37	E 825.52				1.41	1.61	56.5					1.80	0.70	825.5
	87-2										1.46	1.80	42.4							
	87-3										1.43	1.68	51.3							
	88-1	1.663	32.72	53.1	C	2.39	M 835.87	1.620	56.3	835.87	1.43	1.50	65.2					1.82	0.84	835.9
	88-2										1.43	1.60	57.9							
	88-3										1.41	1.60	57.9							
	88-4	1.616	35.91	56.6	C	2.39	E 839.52	1.478	66.7	839.52	1.42	1.58	59.3					1.67	1.12	839.5
	88-5	1.641	34.32	54.8	C	2.39	E 842.28	1.607	57.4	842.28	1.41	1.68	52.0					1.94	0.95	842.3
	88-6										1.40	1.58	59.3							
	89-1	1.662	33.18	53.8	C	2.40	E 845.66	1.586	59.7	845.66	1.41	1.60	58.2					1.80	0.74	845.7
	89-2										1.41	1.60	58.2							
	89-3	1.728	29.06	49.0	C	2.40	E 848.68	1.681	52.9	848.68	1.50	1.65	54.5					1.89	0.68	848.7
	89-4										1.59	1.80	43.6							
	90-1	1.724	30.39	51.1	C	2.45	E 855.33	1.670	54.7	855.33	1.44	1.60	59.6					1.99	0.78	855.3
	90-2										1.52	1.63	57.5							
	90-3	1.711	30.97	51.7	C	2.45	E 858.25	1.658	55.6	858.25	1.47	1.66	55.4					1.85	1.01	858.2
	91-1	1.755	29.43	50.4	C	2.50	E 864.07	1.729	52.3	864.07	1.52	1.68	55.6					2.06	0.98	864.1
	92-1	1.741	31.21	53.0	C	2.55	E 873.90	1.645	59.3	873.90	1.48	1.70	55.7					2.02	0.72	873.9
	93-1										1.50	1.80	52.6							
	93-2	1.922	24.05	45.1	C	2.66	M 884.89	1.863	48.8	884.89	1.61	1.80	52.6					2.17	0.78	884.9
	93-3										1.53	1.70	58.7							
	94-1	1.769	31.58	54.5	C	2.66	E 894.11	1.654	61.5	894.11	1.43	1.75	55.7					2.07	0.92	894.1
	95-1	1.682	31.61	54.5	C	2.66	E 903.60	1.714	57.9	903.60	1.48	1.62	61.0					1.96	0.75	903.6
	95-2										1.52	1.75	52.5							
	95-3	1.762	30.39	52.1	C	2.55	E 905.71	1.715	54.8	905.71	1.52	1.73	53.8					1.96	0.80	905.7
	96-1										1.48	1.68	57.0							
	96-2										1.53	1.70	55.7							
	96-3	1.767	29.76	51.3	C	2.55	E 914.22	1.753	51.2	914.22	1.54	1.70	55.7					2.05	0.92	914.2
	96-4	1.792	28.03	49.0	C	2.53	E 916.14	1.724	53.5	916.14	1.58	1.75	52.5					2.08	1.10	916.1
	97-1	1.801	29.65	52.1	C	2.65	E 922.02	1.707	57.9	922.02	1.45	1.70	58.5					2.00	0.98	922.0
	98-1	1.796	30.42	53.3	C	2.68	M 931.51	1.694	59.5	931.51								2.00	1.28	931.5
584A	1-1	2.028	20.22	40.0	C	2.69	E 602.43	2.016	38.8	602.43	1.66	1.90	47.4					2.11	0.67	602.4
	1-1	1.952	23.37	44.5	C	2.69	E 602.61	1.847	49.1	602.61									0.63	602.6
	1-1	1.965	22.79	43.7	C	2.69	E 603.57	2.125	37.8	603.57									0.63	603.6
	1-2										1.69	2.00	41.4							
	2-1	1.800	28.81	50.6	C	2.60	E 699.22	1.724	54.0	699.22	1.47	1.75	54.0							
	2-2	1.728	32.93	55.5	C	2.60	E 701.35	1.602	61.8	701.35	1.46	1.73	55.2					1.76	0.86	701.3
	2-3										1.47	1.70	59.5							
	2-CC	1.762	31.53	54.2	C	2.60	E 703.62	1.682	56.8	703.62								1.81	0.72	703.6
	3-1	1.726	32.01	53.9	C	2.55	E 795.91	1.630	58.8	795.91	1.47	1.77	51.1					1.86	0.60	795.9
	3-2										1.50	1.75	52.5							
	H4-1										1.45	1.68	58.4							

	Gravimetric Methods								Two-Minute GRAPE			Continuous GRAPE			Shear Strength				Velocity				
	Wet Bulk Den- sity (Mg/m ³)		Water Content (%)	Porosity (%)	Boyce, chunk, mini core	Grain Density (Mg/m ³)	Meas. or Est.	Depth (m)	Wet Bulk Den- sity (Mg/m ³)	Porosity (%)	Depth (m)	Section Avg. Wet Bulk Den- sity (Mg/m ³)	Max. Sustained Wet Bulk Den- sity (Mg/m ³)	Min. Porosity (%)	Wykham- Farrance (kPa)	Torvane (kPa)	Pocket Pene- trometer (kPa)	Depth (m)	Compressional (km/s)	Shear (km/s)	Depth (m)		
Section									para.		perp.								para.		perp.	para.	perp.
584A H4-2												1.48	1.62	62.2									
H4-3												1.41	1.61	62.2									
H4-4												1.38	1.60	63.5									
584B H1-1	1.454	49.97	70.9	B	2.50	E	2.52		1.457		70.6	2.52	1.50	1.68	55.6								
H1-CC	1.808	38.94	68.7	C	2.80	E	2.97			1.582	62.1	2.97								1.60	0.55	3.0	
H2-1												1.44	1.60	63.5									
H2-2	1.667	36.4	59.3	C	2.60	E	511.38			1.595	63.7	511.38	1.44	1.65	60.3					1.75	0.56	511.4	
H2-3												1.49	1.62	62.2									
H2-4												1.39	1.58	64.8									
H2-5	1.611	39.96	62.8	C	2.60	E	516.01			1.563	67.6	516.01	1.44	1.60	63.5					1.57	0.60	516.0	
H2-6												1.47	1.65	60.3									
2-1	1.753	32.97	56.4	C	2.69	E	644.45			1.651	62.4	644.45	1.47	1.63	63.7					1.79	0.65	644.4	
2-2	1.810	29.85	52.7	C	2.69	E	645.65			1.725	57.9	645.65	1.53	1.75	56.5					1.86	0.56	645.6	
2-3	1.821	29.32	52.1	C	2.69	E	648.45			1.695	59.7	648.45	1.51	1.70	59.5					1.85	0.63	648.4	
2-4	1.746	33.35	56.8	C	2.69	E	648.56			1.619	64.3	649.56	1.52	1.72	58.3					1.80	0.67	649.6	
2-5	1.776	31.74	55.0	C	2.69	E	650.19			1.666	61.4	650.19	1.53	1.75	56.5					1.81	0.60	650.2	
H3-1	1.934	24.33	45.9	C	2.70	E	654.73			1.801	53.7	654.73	1.61	1.80	53.7					1.90	0.56	654.7	
H3-2	1.840	28.58	51.3	C	2.70	E	655.60			1.720	58.5	655.60	1.59	1.75	56.7					1.78	0.68	655.6	
H3-3	1.860	29.09	52.8	C	2.70	E	657.07			1.692	60.2	657.07	1.61	1.82	52.5					1.85	0.71	657.1	
H4-1	1.754	32.88	56.3	C	2.35	E	846.96			1.580	57.8	846.96	1.39	1.60	56.6					1.86	0.84	846.9	
H4-1	1.669	31.50	51.3	C	2.35	E	848.00			1.581	58.0	848.00								1.83	0.80	848.0	
H4-2	1.681	30.74	50.4	C	2.35	E	848.93			1.563	59.3	848.93	1.44	1.62	55.1					1.98	0.93	848.9	
3-1	1.729	31.95	53.9	C	2.55	E	943.28			1.591	62.8	943.28	1.42	1.68	57.0					1.88	0.92	943.3	
3-1	1.793	28.36	49.6	C	2.55	E	944.46			1.675	57.3	944.46								2.05	0.79	944.5	
3-2	1.737	31.46	53.3	C	2.55	E	945.60			1.652	58.8	945.60	1.45	1.65	59.0					2.00	0.86	945.6	