TABLE 1.4_T1 SUMMARY OF LABORATORY TESTING

Boring No.	Sample No.	Sample Type	Surface Elevation ft.	Depth ft.		Depth ft.	Elevation ft.		Elevation ft.	Atterbergs LL	PL	PI	G_S	ASTM D422 Grain Size Analysis % Gravel	% Sand	% Silt	% Clay	ASTM D1140 P200	Organic Content
09-100	5	SS	767.11	8.0	-	10.0	759.1	-	757.1									51.2	
09-100	10	SS	767.11	18.0		20.0	749.1	-	747.1					8.3	73.1	13.8	4.8		
09-100	24	SS	767.11	47.5	-	49.5	719.6	-	717.6			NP		18.7	57.0	15.1	9.2		
09-100	25	SS	767.11	49.5	-	51.5	717.6	-	715.6									13.2	
09-100	29	SS	767.11	57.5	-	59.5	709.6	-	707.6					0.0	57.3	29.8	12.9		
09-101	S-18	SS	768.31	35.5		37.5	732.8	-	730.8					0.0	4.3	73.1	22.6		
09-102	S-14A		761.91	30.5		31.5	731.4	-	730.4										3.37
09-102	S-15A	SS	761.91	32.0		34.0	729.9	-	727.9					3.8	34.8	41.7	19.7		
09-102	S-21	SS	761.91	46.0	-	48.0	715.9	-	713.9					0.0	53.2	36.0	10.8		
09-102	S-17	SS	761.91	36.0	-	38.0	725.9	-	723.9									19.8	
09-103	S-22	SS	766.31	46.5		48.5	719.8	-	717.8					0.0	64.0	23.3	12.7		
09-104	S-14	SS	761.29	29.5		31.5	731.8	-	729.8					0.0	60.1	18.4	21.5		
09-104	S-20	SS	761.29	43.5	-	45.5	717.8	-	715.8									58.1	
09-104	S-21	SS	761.29	45.5	-	47.5	715.8	-	713.8					0.0	45.7	33.7	20.6		
09-105	7A	SS	748.35	13.0		14.0	735.4	-	734.4	27	17	10							
09-106	S-9	SS	755.05	16.0	-	18.0	739.1	-	737.1									64.0	
09-106	13A		755.05	24.3		26.0	730.8	-	729.1	19	15	4							1.50
09-106	S-19	SS	755.05	36.0	-	38.0	719.1	-	717.1					0.0	59.1	28.7	12.2		
09-106	S-23	SS	755.05	44.0	-	46.0	711.1	-	709.1					0.0	43.3	37.6	19.1		
09-107	S-6A	SS	762.44	11.0		12.0	751.4		750.4									59.4	
09-107	S-9	SS	762.44	16.0		18.0	746.4		744.4									54.2	
09-107	S-12	SS	762.44	22.0		24.0	740.4		738.4									61.3	
09-107	S-14	SS	762.44	26.0		28.0	736.4		734.4									20.2	
09-107	S-15A	SS	762.44	28.5		30.0	733.9		732.4										2.61
09-108	S-3	SS	759.77	4.0		6.0	755.8		753.8									94.1	
09-108	S-6	SS	759.77	10.0		12.0	749.8		747.8									84.4	
09-108	S-8	SS	759.77	14.0		16.0	745.8		743.8					0.0	4.3	76.0	19.7		
09-108	S-9	SS	759.77	16.0		18.0	743.8		741.8									98.5	
09-108	S-12A	SS	759.77	22.0		25.0	737.8		734.8									95.0	
09-108	13	SS	759.77	25.0		27.0	734.8		732.8	23	14	9							
09-108	S-14	SS	759.77	27.0		29.0	732.8		730.8									65.7	
09-108	S-20	SS	759.77	39.0		41.0	720.8		718.8			NP		0.0	68.6	21.4	10.0		
09-108	S-24	SS	759.77	47.0		49.0	712.8		710.8					0.0	54.5	28.7	16.8		
09-109	S-3	SS	763.59	4.0		6.0	759.6		757.6									57.8	
09-109	S-6	SS	763.59	10.0		12.0	753.6		751.6									63.5	
09-109	S-9	SS	763.59	16.0		18.0	747.6		745.6									99.0	
09-109	S-12	SS	763.59	22.0		24.0	741.6		739.6									95.7	
09-109	S-13	SS	763.59	24.0		26.0	739.6		737.6									95.9	
09-109	14A	SS	763.59	26.5		28.0	737.1		735.6	20	14	6							
09-110	S-3	SS	774.57	4.0		6.0	770.6		768.6									43.5	
09-110	S-6	SS	774.57	10.0		12.0	764.6		762.6									53.9	
09-110	S-9	SS	774.57	16.0		18.0	758.6		756.6									34.6	
09-110	S-12	SS	774.57	22.0		24.0	752.6		750.6									42.1	
09-110	S-15	SS	774.57	28.0		30.0	746.6		744.6									65.5	
09-110	S-16	SS	774.57	30.0		32.0	744.6		742.6									93.6	
09-110	S-18	SS	774.57	34.0		36.0	740.6		738.6									84.1	
09-110	S-21	SS	774.57	40.0		42.0	734.6		732.6									46.0	
09-110	S-24	SS	774.57	46.0		48.0	728.6		726.6									15.4	
09-110	S-25	SS	774.57	48.0		50.0	726.6		724.6					0.0	68.2	17.6	14.2		
09-110	S-26	SS	774.57	50.0		52.0	724.6		722.6									23.4	
09-110	S-30	SS	774.57	58.0		60.0	716.6		714.6					0.0	72.9	15.9	11.2		
09-110	S-35	SS	774.57	68.0		70.0	706.6		704.6					0.0	67.1	19.5	13.4		
09-200	S-16	SS	764.91	34.0		36.0	730.9		728.9	19	16	3						66.5	
09-200	S-18	SS	764.91	38.0		40.0	726.9		724.9									21.7	
09-200	S-20	SS	764.91	42.0		42.5	722.9		722.4									21.7	
09-200	S-20A	SS	764.91	42.5		44.0	722.4		720.9									88.6	
09-200	S-22	SS	764.91	46.0		46.5	718.9		718.4									28.6	
09-201	S-3	SS	760.74	4.0		6.0	756.7		754.7									98.7	
09-201	S-6A	SS	760.74	10.0		12.0	750.7		748.7									79.3	
09-201	S-10	SS	760.74	18.5		21.0	742.2		739.7									95.3	
09-201	S-12	SS	760.74	23.5		25.5	737.2		735.2									98.4	
09-201	S-17	SS	760.74	33.5		35.5	727.2		725.2									17.6	
09-201	S-19	SS	760.74	37.5		39.5	723.2		721.2									23.1	
09-201	S-21	SS	760.74	41.5		43.5	719.2		717.2									52.3	
09-201	S-24	SS	760.74	47.5		49.5	713.2		711.2									24.9	

TABLE 1.4_T1 SUMMARY OF LABORATORY TESTING

Boring No.	Sample No.	Sample Type	Surface Elevation ft.	Depth ft.	Depth ft.	Elevation ft.	Elevation ft.	Atterbergs LL	Atterbergs PL	Atterbergs PI	G_S	ASTM D422 Grain Size Analysis % Gravel	% Sand	% Silt	% Clay	ASTM D1140 P200	Organic Content
09-202	S-3	SS	761.47	4.0	6.0	757.5	755.5									95.1	
09-202	S-6	SS	761.47	10.0	12.0	751.5	749.5									94.2	
09-202	S-9	SS	761.47	16.0	18.0	745.5	743.5									98.8	
09-202	S-12	SS	761.47	22.0	24.0	739.5	737.5									87.6	
09-202	S-15	SS	761.47	28.0	29.8	733.5	731.7									97.2	
09-202	S-17	SS	761.47	32.0	34.0	729.5	727.5									60.5	
09-202	S-19	SS	761.47	36.0	37.0	725.5	724.5									62.7	
09-202	S-20	SS	761.47	38.0	40.0	723.5	721.5					0.0	71.9	19.2	8.9		
09-202	S-21	SS	761.47	40.0	41.0	721.5	720.5									16.5	
09-202	S-21A	SS	761.47	41.0	42.0	720.5	719.5									22.1	
09-202	S-23	SS	761.47	43.0	44.0	718.5	717.5			NP		2.9	52.6	34.2	10.3	52.4	
09-202	S-25	SS	761.47	46.0	47.5	715.5	714									20.8	
09-203	S-3	SS	759.59	4.0	6.0	755.6	753.6									98.5	
09-203	S-6	SS	759.59	10.0	12.0	749.6	747.6									97.7	
09-203	S-9	SS	759.59	16.0	18.0	743.6	741.6									94.4	
09-203	S-12	SS	759.59	24.0	24.5	735.6	735.1									84.0	
09-203	S-15	SS	759.59	30.0	32.0	729.6	727.6									80.5	
09-203	S-18	SS	759.59	36.0	38.0	723.6	721.6									38.5	
09-203	S-20	SS	759.59	40.0	40.4	719.6	719.2									55.8	
09-204	S-8	SS	750.14	14.0	16.0	736.1	734.1									58.7	
09-204	S-10	SS	750.14	18.0	20.0	732.1	730.1									61.4	
09-204	S-12	SS	750.14	22.0	23.0	728.1	727.1			NP		0.0	37.9	41.2	20.9	60.7	
09-204	S-14	SS	750.14	26.0	28.0	724.1	722.1			NP		0.2	60.3	24.8	14.7	42.7	
09-204	S-15	SS	750.14	28.0	30.0	722.1	720.1									42.5	
09-204	S-16	SS	750.14	30.0	30.5	720.1	719.6									33.8	
09-205	S-5	SS	754.57	8.0	10.0							0.0	3.2	71.5	25.3		
09-205	S-9	SS	754.57	16.0	18.0	738.6	736.6									82.1	
09-205	S-11	SS	754.57	20.0	22.0	734.6	732.6									66.4	
09-205	S-14	SS	754.57	26.0	26.5	728.6	728.1									52.9	
09-205	S-15	SS	754.57	28.0	30.0	726.6	724.6									55.6	
09-205	S-17	SS	754.57	32.0	34.0	722.6	720.6									37.8	
09-205	S-18A	SS	754.57	34.5	35.8	720.1	718.8									14.9	
09-206	S-13	SS	754.56	24.0	26.0	730.6	728.6									45.9	
09-206	S-14	SS	754.56	26.0	28.0	728.6	726.6					0.0	58.2	23.1	18.7		
09-206	S-15	SS	754.56	28.0	30.0	726.6	724.6									41.5	
09-206	S-17	SS	754.56	32.0	33.0	722.6	721.6									47.0	
09-206	S-18	SS	754.56	34.0	36.0	720.6	718.6					16.5	61.2	14.9	7.4		
09-206	S-19	SS	754.56	36.0	37.0	718.6	717.6									13.7	
09-207	S-8	SS	747.11	14.0	16.0	733.1	731.1									83.9	
09-207	S-10	SS	747.11	18.0	20.0	729.1	727.1									83.1	
09-207	S-12	SS	747.11	22.0	24.0	725.1	723.1									90.5	
09-207	S-14	SS	747.11	26.0	28.0	721.1	719.1									59.7	
09-207	S-16	SS	747.11	30.0	32.0	717.1	715.1									13.5	
09-208	S-3	SS	744.78	4.0	6.0	740.8	738.8									93.2	
09-208	S-5	SS	744.78	8.0	10.0	736.8	734.8									86.0	
09-208	S-7	SS	744.78	12.0	14.0	732.8	730.8									45.0	
09-208	S-9	SS	744.78	16.0	18.0	728.8	726.8									38.9	
09-208	S-11	SS	744.78	20.0	22.0	724.8	722.8									32.6	
09-208	S-13	SS	744.78	24.0	26.0	720.8	718.8									36.5	
09-208	S-15	SS	744.78	28.0	29.0	716.8	715.8									14.9	
09-209	S-3	SS	746.19	4.0	6.0	742.2	740.2									92.4	
09-209	S-4	SS	746.19	6.0	8.0	740.2	738.2									93.9	
09-209	S-5	SS	746.19	8.0	10.0	738.2	736.2									81.3	
09-209	S-6	SS	746.19	10.0	12.0	736.2	734.2									55.5	
09-209	S-8	SS	746.19	14.0	16.0	732.2	730.2									34.5	
09-209	S-10	SS	746.19	18.0	20.0	728.2	726.2									47.1	
09-209	S-13	SS	746.19	24.0	26.0	722.2	720.2									29.9	
09-209	S-15	SS	746.19	28.0	29.0	718.2	717.2									21.0	
09-210	S-3	SS	749.55	4.0	6.0	745.6	743.6									72.9	
09-210	S-6	SS	749.55	10.0	12.0	739.6	737.6									94.0	
09-210	S-7	SS	749.55	12.0	14.0	737.6	735.6									60.9	
09-210	S-9	SS	749.55	16.0	18.0	733.6	731.6			NP		0.0	62.2	23.5	14.3	43.9	
09-210	S-11	SS	749.55	20.0	22.0	729.6	727.6									36.0	
09-210	S-13	SS	749.55	24.0	26.0	725.6	723.6									35.3	
09-210	S-15	SS	749.55	28.0	30.0	721.6	719.6					0.0	75.7	13.0	11.3	20.5	
09-210	S-17	SS	749.55	32.0	33.0	717.6	716.6									17.5	

TABLE 1.4_T1 SUMMARY OF LABORATORY TESTING

Boring No.	Sample No.	Sample Type	Surface Elevation ft.	Depth ft.	Depth ft.	Elevation ft.	Elevation ft.	Atterbergs LL	Atterbergs PL	Atterbergs PI	G_S	ASTM D422 Grain Size Analysis % Gravel	% Sand	% Silt	% Clay	ASTM D1140 P200	Organic Content
09-211	S-8A	SS	765.55	15.3	16.0	750.3	749.6									30.7	
09-211	S-10	SS	765.55	18.0	20.0	747.6	745.6									28.2	
09-211	S-12	SS	765.55	22.0	24.0	743.6	741.6									42.5	
09-211	S-13	SS	765.55	24.0	26.0	741.6	739.6									20.2	
09-211	S-15	SS	765.55	28.0	30.0	737.6	735.6									50.5	
09-211	S-17	SS	765.55	32.0	34.0	733.6	731.6									38.5	
09-211	S-19	SS	765.55	37.5	40.5	728.1	725.1									34.1	
09-211	S-21	SS	765.55	42.5	44.5	723.1	721.1									29.2	
09-211	S-22	SS	765.55	44.5	46.5	721.1	719.1									47.8	
09-211	S-24	SS	765.55	48.5	50.5	717.1	715.1									47.8	
09-301	S-3	SS	815.95	4.0	6.0	812	810									96.2	
09-301	S-6	SS	815.95	10.0	12.0	806	804									91.3	
09-301	S-9	SS	815.95	16.0	18.0	800	798									98.4	
09-301	S-12	SS	815.95	22.0	24.0	794	792									99.3	
09-301	S-15	SS	815.95	28.0	30.0	788	786									99.3	
09-301	S-18	SS	815.95	34.0	36.0	782	780									95.0	
09-301	S-21	SS	815.95	40.0	42.0	776	774									98.3	
09-301	S-24	SS	815.95	46.0	48.0	770	768									99.4	
09-301	S-27	SS	815.95	52.0	54.0	764	762									99.9	
09-301	S-30	SS	815.95	56.0	58.0	760	758									89.2	
09-301	S-33	SS	815.95	62.0	64.0	754	752									16.8	
09-301	S-36	SS	815.95	68.0	70.0	748	746									99.5	
09-301	S-39	SS	815.95	74.0	76.0	742	740									96.2	
09-301	S-42	SS	815.95	80.0	82.0	736	734									82.1	
09-301	S-45	SS	815.95	86.0	88.0	730	728									98.7	
09-301	S-48	SS	815.95	92.0	94.0	724	722									50.3	
09-302	S-2	SS	817.38	5.0	7.0	812.4	810.4									99.3	
09-302	S-5	SS	817.38	20.0	22.0	797.4	795.4									91.2	
09-302	S-8	SS	817.38	35.0	37.0	782.4	780.4									96.8	
09-302	S-11	SS	817.38	50.0	52.0	767.4	765.4									82.7	
09-302	S-12	SS	817.38	52.0	54.0	765.4	763.4									88.5	
09-302	S-14	SS	817.38	56.0	58.0	761.4	759.4									99.3	
09-302	S-16	SS	817.38	60.0	62.0	757.4	755.4									96.7	
09-302	S-17	SS	817.38	62.0	64.0	755.4	753.4									59.2	
09-302	S-18	SS	817.38	64.0	66.0	753.4	751.4									96.2	
09-302	S-20	SS	817.38	68.0	70.0	749.4	747.4									96.9	
09-302	S-23	SS	817.38	74.0	76.0	743.4	741.4									86.7	
09-302	S-26	SS	817.38	80.0	82.0	737.4	735.4									96.0	
09-302	S-27	SS	817.38	82.0	87.0	735.4	730.4									89.9	
09-302	S-30	SS	817.38	82.0	87.0	735.4	730.4									82.5	
09-302	S-29	SS	817.38	89.0	91.0	728.4	726.4									72.1	
09-302	S-32	SS	817.38	95.0	97.0	722.4	720.4									75.2	
09-303	1	SS	817.43	0.0	2.0	817.4	815.4									93.2	
09-303	3	SS	817.43	4.0	6.0	813.4	811.4									88.2	
09-303	5	SS	817.43	8.0	10.0	809.4	807.4									70.1	
09-303	7	SS	817.43	12.0	14.0	805.4	803.4									95.0	
09-303	9	SS	817.43	16.0	18.0	801.4	799.4									96.3	
09-303	11	SS	817.43	20.0	22.0	797.4	795.4									88.9	
09-303	13	SS	817.43	24.0	26.0	793.4	791.4									96.6	
09-303	15	SS	817.43	28.0	30.0	789.4	787.4									82.5	
09-303	17	SS	817.43	32.0	34.0	785.4	783.4									80.6	
09-303	19	SS	817.43	36.0	38.0	781.4	779.4									96.8	
09-303	21	SS	817.43	40.0	42.0	777.4	775.4									77.9	
09-303	22	SS	817.43	42.0	44.0	775.4	773.4									91.7	
09-303	24	SS	817.43	46.0	48.0	771.4	769.4									80.0	
09-303	25	SS	817.43	48.0	50.0	769.4	767.4									87.9	
09-303	27	SS	817.43	51.5	53.5	765.9	763.9									92.5	
09-303	28	SS	817.43	53.5	55.0	763.9	762.4									80.9	
09-303	30	SS	817.43	57.5	59.5	759.9	757.9									95.3	
09-303	31	SS	817.43	59.5	61.5	757.9	755.9									96.4	
09-304	S-3	SS	819.50	4.0	6.0	815.5	813.5									82.1	
09-304	S-6	SS	819.50	10.0	10.5	809.5	809									91.2	
09-304	S-9	SS	819.50	16.0	16.9	803.5	802.6									99.0	
09-304	S-12	SS	819.50	22.0	22.5	797.5	797									44.8	
09-304	S-15	SS	819.50	28.0	30.0	791.5	789.5									98.4	
09-304	S-18	SS	819.50	34.0	36.0	785.5	783.5									90.0	
09-304	S-21	SS	819.50	40.0	42.0	779.5	777.5									98.8	
09-304	S-24	SS	819.50	46.0	48.0	773.5	771.5									56.7	
09-304	S-25	SS	819.50	48.0	50.0	771.5	769.5									90.4	

TABLE 1.4_T1 SUMMARY OF LABORATORY TESTING

Boring No.	Sample No.	Sample Type	Surface Elevation ft.	Depth ft.	Depth ft.	Elevation ft.	Elevation ft.	Atterbergs LL	Atterbergs PL	Atterbergs PI	G_S	ASTM D422 Grain Size Analysis % Gravel	% Sand	% Silt	% Clay	ASTM D1140 P200	Organic Content
09-400	S-5	SS	766.75	8.0	10.0	758.8	756.8									61.8	
09-400	S-7	SS	766.75	12.0	14.0	754.8	752.8									94.3	
09-400	S-12	SS	766.75	22.5	24.5	744.3	742.3									3.5	
09-400	S-14	SS	766.75	26.5	28.5	740.3	738.3									25.1	
09-400	S-17	SS	766.75	33.0	35.5	733.8	731.3									94.8	
09-400	S-19	SS	766.75	37.5	39.5	729.3	727.3									44.7	
09-400	S-22	SS	766.75	43.5	45.5	723.3	721.3					0.0	43.4	34.3	22.3		
09-400	S-24	SS	766.75	47.5	49.5	719.3	717.3					0.2	46.6	35.5	17.7		
09-400	S-27	SS	766.75	54.0	56.0	712.8	710.8					3.5	55.3	23.3	17.9		
09-402	S-3	SS	764.93	4.0	6.0	760.9	758.9									11.2	
09-402	S-8	SS	764.93	14.5	16.0	750.4	748.9									45.5	
09-402	S-10	SS	764.93	18.0	20.0	746.9	744.9									25.0	
09-402	S-13	SS	764.93	24.0	26.0	740.9	738.9					27.1	42.2	18.5	12.2		
09-402	S-15	SS	764.93	28.0	30.0	736.9	734.9									21.3	
09-402	S-26	SS	764.93	50.0	52.0	714.9	712.9					0.0	40.8	43.1	16.1		
09-402	S-28	SS	764.93	54.0	56.0	710.9	708.9			NP		0.0	62.4	27.5	10.1		
09-404	S-3	SS	763.41	4.0	6.0	759.4	757.4									62.2	
09-404	S-6	SS	763.41	10.0	12.0	753.4	751.4									98.6	
09-404	S-9	SS	763.41	16.0	18.0	747.4	745.4									95.5	
09-404	S-12	SS	763.41	22.0	23.0	741.4	740.4									99.1	
09-404	S-15	SS	763.41	28.0	30.0	735.4	733.4									95.6	
09-404	S-17	SS	763.41	32.0	34.0	731.4	729.4									37.2	
09-404	S-24	SS	763.41	46.0	48.0	717.4	715.4					17.1	35.2	31.8	15.9		
09-404	S-27	SS	763.41	52.0	54.0	711.4	709.4			NP		0.0	47.6	36.8	15.6		
09-406	S-4	SS	764.33	6.0	8.0	758.3	756.3									94.5	
09-406	S-7	SS	764.33	12.0	13.5	752.3	750.8									91.8	
09-406	S-10	SS	764.33	18.0	20.0	746.3	744.3									31.3	
09-406	S-25	SS	764.33	50.0	52.0	714.3	712.3			NP		2.4	44.9	36.0	16.7		
09-406	S-28	SS	764.33	56.0	58.0	708.3	706.3					0.0	50.0	35.0	15.0		
09-408	S-3	SS	764.76	4.0	6.0	760.8	758.8									93.8	
09-408	S-6	SS	764.76	10.0	12.0	754.8	752.8									97.7	
09-408	S-9	SS	764.76	16.0	18.0	748.8	746.8									97.3	
09-408	S-12	SS	764.76	22.0	24.0	742.8	740.8									93.6	
09-408	S-16	SS	764.76	30.0	32.0	734.8	732.8									92.2	
09-408	S-18	SS	764.76	34.0	35.5	730.8	729.3									92.5	
09-409	S-13	SS	762.61	6.5	8.0	756.1	754.6									24.8	
09-409	S-5	SS	762.61	8.0	10.0	754.6	752.6									96.9	
09-409	S-8	SS	762.61	20.0	22.0	742.6	740.6									44.9	
09-409	S-11	SS	762.61	24.0	26.0	738.6	736.6									99.2	
09-410	S-7	SS	762.50	6.5	8.0	756	754.5									77.7	
09-410	S-4	SS	762.50	12.0	14.0	750.5	748.5									56.9	
09-410	S-2	SS	762.50	17.5	18.5	745	744									49.8	
09-410	S-10	SS	762.50	18.0	20.0	744.5	742.5									56.5	
09-410	S-11	SS	762.50	22.0	24.0	740.5	738.5									47.3	
09-410	S-19	SS	762.50	40.5	43.5	722	719					0.0	56.7	26.8	16.5		
09-410	S-20	SS	762.50	43.5	45.5	719	717					1.4	47.6	30.4	20.6		
09-410	S-22	SS	762.50	48.0	50.0	714.5	712.5			NP		0.0	63.5	23.0	13.5		
09-410	S-25	SS	762.50	54.5	56.5	708	706					0.0	58.6	28.7	12.7		
09-412	S-1	SS	764.83	0.0	2.0	764.8	762.8									10.4	
09-412	S-2	SS	764.83	2.0	4.0	762.8	760.8									12.6	
09-412	S-15	SS	764.83	28.0	30.0	736.8	734.8									25.6	
09-413	S-19	SS	764.42	40.5	42.5	723.9	721.9									25.8	
09-500	12	SS	757.29	40.5	42.5	716.8	714.8									97.9	
09-500	13	SS	757.29	40.5	42.5	716.8	714.8									96.4	
09-500	3	SS	757.29	40.5	42.5	716.8	714.8									64.9	
09-500	6	SS	757.29	40.5	42.5	716.8	714.8									97.3	
09-500	9	SS	757.29	40.5	42.5	716.8	714.8									92.2	
09-501	3	SS	765.02	40.5	42.5	724.5	722.5									29.0	
09-501	4	SS	765.02	40.5	42.5	724.5	722.5									53.5	
09-501	5A	SS	765.02	40.5	42.5	724.5	722.5									88.6	
09-501	5B	SS	765.02	40.5	42.5	724.5	722.5									46.5	
09-502	3	SS	752.85	40.5	42.5	712.4	710.4									98.7	
09-502	6	SS	752.85	40.5	42.5	712.4	710.4									99.2	
09-502	9	SS	752.85	40.5	42.5	712.4	710.4									96.7	
09-502	12	SS	752.85	40.5	42.5	712.4	710.4									91.1	

TABLE 1.4_T1 SUMMARY OF LABORATORY TESTING

Boring No.	Sample No.	Sample Type	Surface Elevation ft.	Depth ft.	Depth ft.	Elevation ft.	Elevation ft.	Atterbergs LL	Atterbergs PL	Atterbergs PI	G_S	ASTM D422 Grain Size Analysis % Gravel	% Sand	% Silt	% Clay	ASTM D1140 P200	Organic Content
09-503	3	SS	764.65	4.0	6.0	760.7	758.7									77.0	
09-503	6	SS	764.65	10.0	12.0	754.7	752.7									81.0	
09-503	9	SS	764.65	16.0	18.0	748.7	746.7									78.5	
09-503	12	SS	764.65	22.0	24.0	742.7	740.7									94.0	
09-503	15	SS	764.65	28.0	30.0	736.7	734.7									93.3	
09-503	17	SS	764.65	32.0	34.0	732.7	730.7									96.0	
09-601	S-24	SS	773.44	47.5	50.0	725.9	723.4									18.2	
09-601	S-29	SS	773.44	60.0	62.5	713.4	710.9					0.0	43.3	43.4	13.3		
09-602	3	SS	781.50	4.0	6.0	777.5	775.5									67.9	
09-602	6	SS	781.50	10.0	12.0	771.5	769.5									75.8	
09-602	9	SS	781.50	16.0	18.0	765.5	763.5									65.8	
09-602	18	SS	781.50	34.0	36.0	747.5	745.5									97.7	
09-602	21	SS	781.50	40.0	43.0	741.5	738.5									99.7	
09-602	22	SS	781.50	43.0	44.5	738.5	737									77.9	
09-602	25	SS	781.50	53.0	55.0	728.5	726.5									96.3	
09-603	3	SS	780.61	4.0	6.0	776.6	774.6									87.9	
09-603	6	SS	780.61	10.0	12.0	770.6	768.6									73.3	
09-603	9	SS	780.61	16.0	18.0	764.6	762.6									30.3	
09-603	12	SS	780.61	22.0	24.0	758.6	756.6									96.6	
09-603	15	SS	780.61	29.5	32.0	751.1	748.6									95.0	
09-603	18	SS	780.61	36.0	38.0	744.6	742.6									60.5	
09-603	21	SS	780.61	42.5	44.5	738.1	736.1									96.8	
09-603	24	SS	780.61	48.5	50.5	732.1	730.1									77.4	
09-604	S-3	SS	782.48	4.0	6.0	778.5	776.5									71.4	
09-604	S-6	SS	782.48	10.0	12.0	772.5	770.5									52.8	
09-604	S-9	SS	782.48	16.0	18.0	766.5	764.5									45.4	
09-604	S-12	SS	782.48	22.0	24.0	760.5	758.5									91.7	
09-604	S-15	SS	782.48	28.0	30.0	754.5	752.5									7.6	
09-604	S-18	SS	782.48	34.0	36.0	748.5	746.5									59.9	
09-604	S-21	SS	782.48	40.0	42.0	742.5	740.5									17.6	
09-604	S-24	SS	782.48	46.0	48.0	736.5	734.5									81.7	
09-604	S-27	SS	782.48	52.0	55.5	730.5	727									88.9	
09-604	S-29	SS	782.48	59.0	62.0	723.5	720.5									82.5	
09-605	S-3	SS	781.74	4.0	6.0	777.7	775.7									50.2	
09-605	S-6	SS	781.74	10.0	12.0	771.7	769.7									38.6	
09-605	S-9	SS	781.74	16.0	18.0	765.7	763.7									42.9	
09-605	S-12	SS	781.74	22.0	23.5	759.7	758.2									40.7	
09-605	S-15	SS	781.74	28.0	30.0	753.7	751.7									83.9	
09-605	S-18	SS	781.74	34.0	35.0	747.7	746.7									55.1	
09-605	S-21	SS	781.74	40.0	42.0	741.7	739.7									94.9	
09-605	S-24	SS	781.74	46.0	48.0	735.7	733.7									96.4	
09-700	S-3	SS	764.55	4.0	6.0	760.6	758.6									13.2	
09-700	S-6	SS	764.55	10.0	12.0	754.6	752.6									99.2	
09-700	S-9	SS	764.55	16.0	18.0	748.6	746.6									98.7	
09-700	S-12	SS	764.55	22.0	24.0	742.6	740.6									99.4	
09-700	S-13	SS	764.55	24.0	26.0	740.6	738.6									59.1	
09-700	S-14	SS	764.55	32.0	34.0	732.6	730.6									21.6	
09-700	S-16	SS	764.55	36.0	38.0	728.6	726.6									10.4	
09-700	S-18	SS	764.55	40.0	42.0	724.6	722.6									10.7	
09-700	S-20	SS	764.55	44.0	46.0	720.6	718.6									20.6	
09-700	S-22	SS	764.55	48.0	50.0	716.6	714.6									36.3	
09-700	S-25	SS	764.55	54.0	56.0	710.6	708.6									7.7	
09-700	S-27	SS	764.55	58.0	60.0	706.6	704.6									16.9	
09-702	S-3	SS	764.40	4.0	6.0	760.4	758.4									95.1	
09-702	S-6	SS	764.40	10.0	12.0	754.4	752.4									97.8	
09-702	S-9	SS	764.40	16.0	18.0	748.4	746.4									98.7	
09-702	S-12	SS	764.40	22.0	24.0	742.4	740.4									71.8	
09-702	S-14	SS	764.40	26.0	26.5	738.4	737.9									97.6	
09-702	S-15	SS	764.40	28.0	30.0	736.4	734.4									32.5	
09-702	S-17	SS	764.40	32.0	34.0	732.4	730.4									33.4	
09-702	S-19	SS	764.40	36.0	38.0	728.4	726.4									39.5	
09-702	S-21	SS	764.40	40.0	42.0	724.4	722.4									22.5	
09-702	S-23	SS	764.40	44.0	46.0	720.4	718.4									33.3	
09-702	S-25	SS	764.40	48.0	50.0	716.4	714.4									20.9	
09-702	S-27	SS	764.40	52.0	54.0	712.4	710.4									51.8	

TABLE 1.4_T1 SUMMARY OF LABORATORY TESTING

Boring No.	Sample No.	Sample Type	Surface Elevation ft.	Depth ft.	Depth ft.	Elevation ft.	Elevation ft.	Atterbergs LL	Atterbergs PL	Atterbergs PI	G_S	ASTM D422 Grain Size Analysis % Gravel	% Sand	% Silt	% Clay	ASTM D1140 P200	Organic Content
09-704	S-3	SS	764.57	4.0	6.0	760.6	758.6									97.3	
09-704	S-7	SS	764.57	12.0	14.0	752.6	750.6									96.2	
09-704	S-10	SS	764.57	18.0	19.0	746.6	745.6									98.7	
09-704	S-12	SS	764.57	22.0	24.0	742.6	740.6									99.5	
09-704	S-14	SS	764.57	26.0	27.8	738.6	736.8									99.7	
09-704	S-15	SS	764.57	28.0	30.0	736.6	734.6									78.6	
09-704	S-17	SS	764.57	32.0	34.0	732.6	730.6									56.4	
09-704	S-20	SS	764.57	38.0	40.0	726.6	724.6									54.5	
09-704	S-22	SS	764.57	42.0	44.0	722.6	720.6									45.2	
09-704	S-24	SS	764.57	46.0	48.0	718.6	716.6									35.8	
09-704	S-26	SS	764.57	50.0	52.0	714.6	712.6									14.4	
09-704	S-28	SS	764.57	52.0	54.0	712.6	710.6									19.0	
09-704	S-29	SS	764.57	56.0	58.0	708.6	706.6									15.9	
09-706	S-3	SS	763.58	4.0	6.0	759.6	757.6									35.4	
09-706	S-6	SS	763.58	10.0	12.0	753.6	751.6									33.4	
09-706	S-10	SS	763.58	18.0	20.0	745.6	743.6									98.0	
09-706	S-13	SS	763.58	24.0	25.0	739.6	738.6									91.4	
09-706	S-14A	SS	763.58	26.5	28.0	737.1	735.6									46.6	
09-706	S-16	SS	763.58	30.0	32.0	733.6	731.6									80.8	
09-706	S-18	SS	763.58	34.0	36.0	729.6	727.6									42.7	
09-706	S-20	SS	763.58	38.0	40.0	725.6	723.6									31.3	
09-706	S-22	SS	763.58	42.0	44.0	721.6	719.6									27.0	
09-706	S-24	SS	763.58	46.0	48.0	717.6	715.6									34.1	
09-706	S-26	SS	763.58	50.0	52.0	713.6	711.6									38.4	
09-706	S-28	SS	763.58	54.0	55.5	709.6	708.1									24.3	
09-708	S-3	SS	763.64	4.0	6.0	759.6	757.6									93.8	
09-708	S-6	SS	763.64	10.0	12.0	753.6	751.6									99.0	
09-708	S-9	SS	763.64	16.0	18.0	747.6	745.6									26.2	
09-708	S-12	SS	763.64	22.0	24.0	741.6	739.6									88.6	
09-708	S-15	SS	763.64	28.0	29.0	735.6	734.6									90.4	
09-708	S-16A	SS	763.64	31.0	32.0	732.6	731.6									71.4	
09-708	S-17	SS	763.64	32.0	33.0	731.6	730.6									57.6	
09-708	S-19	SS	763.64	36.0	37.0	727.6	726.6									61.4	
09-708	S-21	SS	763.64	40.0	42.0	723.6	721.6									51.0	
09-708	S-23	SS	763.64	44.0	46.0	719.6	717.6									45.3	
09-708	S-25	SS	763.64	48.0	50.0	715.6	713.6									29.1	
09-708	S-27	SS	763.64	52.0	54.0	711.6	709.6									17.9	
09-708	S-29	SS	763.64	56.0	58.0	707.6	705.6									21.1	
09-708	S-31	SS	763.64	59.5	60.2	704.1	703.4									20.0	
09-710	S-3	SS	762.98	4.0	6.0	759	757									48.5	
09-710	S-6	SS	762.98	10.0	12.0	753	751									54.9	
09-710	S-9	SS	762.98	16.0	18.0	747	745									99.4	
09-710	S-12	SS	762.98	22.0	24.0	741	739									97.5	
09-710	S-15	SS	762.98	28.0	30.0	735	733									88.6	
09-710	S-18	SS	762.98	34.0	36.0	729	727									86.4	
09-710	S-19	SS	762.98	36.0	38.0	727	725									97.2	
09-710	S-21	SS	762.98	40.0	42.0	723	721									85.4	
09-710	S-23	SS	762.98	44.0	46.0	719	717									59.6	
09-710	S-24	SS	762.98	46.0	48.0	717	715									76.0	
09-710	S-26	SS	762.98	50.0	52.0	713	711									48.8	
09-710	S-28	SS	762.98	54.0	56.0	709	707									24.1	
09-712	S-3	SS	763.83	4.0	6.0	759.8	757.8									90.6	
09-712	S-6	SS	763.83	10.0	12.0	753.8	751.8									99.1	
09-712	S-9	SS	763.83	16.0	18.0	747.8	745.8									99.5	
09-712	S-12	SS	763.83	22.0	24.0	741.8	739.8									96.1	
09-712	S-15	SS	763.83	28.0	30.0	735.8	733.8									92.6	
09-712	S-18	SS	763.83	34.0	36.0	729.8	727.8									88.7	
09-712	S-20B	SS	763.83	39.5	40.0	724.3	723.8									39.4	
09-712	S-21	SS	763.83	40.0	42.0	723.8	721.8									65.0	
09-712	S-23	SS	763.83	44.0	46.0	719.8	717.8									56.3	
09-712	S-25	SS	763.83	48.0	50.0	715.8	713.8									41.9	
09-712	S-27	SS	763.83	52.0	54.0	711.8	709.8									15.6	
09-712	S-29	SS	763.83	56.0	58.0	707.8	705.8									22.0	

TABLE 1.4_T1 SUMMARY OF LABORATORY TESTING

Boring No.	Sample No.	Sample Type	Surface Elevation ft.	Depth ft.	Depth ft.	Elevation ft.	Elevation ft.	Atterbergs LL	Atterbergs PL	Atterbergs PI	G_S	ASTM D422 Grain Size Analysis % Gravel	% Sand	% Silt	% Clay	ASTM D1140 P200	Organic Content
09-714	S-3	SS	764.16	4.0	6.0	760.2	758.2									32.8	
09-714	S-6	SS	764.16	10.0	12.0	754.2	752.2									99.2	
09-714	S-9	SS	764.16	16.0	18.0	748.2	746.2									97.2	
09-714	S-12	SS	764.16	22.0	24.0	742.2	740.2									99.6	
09-714	S-15	SS	764.16	28.0	30.0	736.2	734.2									69.6	
09-714	S-18	SS	764.16	34.0	34.5	730.2	729.7									96.0	
09-714	S-18A	SS	764.16	34.5	36.0	729.7	728.2									72.5	
09-714	S-20A	SS	764.16	39.0	40.0	725.2	724.2									63.8	
09-714	S-22	SS	764.16	42.0	44.0	722.2	720.2									51.7	
09-714	S-24	SS	764.16	46.0	48.0	718.2	716.2									43.9	
09-714	S-26	SS	764.16	50.0	52.0	714.2	712.2									35.6	
09-714	S-28	SS	764.16	54.0	56.0	710.2	708.2									32.7	
09-714	S-30	SS	764.16	58.0	60.0	706.2	704.2									10.3	
09-800	S-3	SS	763.09	4.0	6.0	759.1	757.1									16.5	
09-800	S-6	SS	763.09	10.0	12.0	753.1	751.1									96.1	
09-800	S-9	SS	763.09	16.0	18.0	747.1	745.1									90.0	
09-800	S-12	SS	763.09	22.0	14.0	741.1	749.1									12.7	
09-800	S-15	SS	763.09	28.0	30.0	735.1	733.1									53.7	
09-801	3	SS	765.26	4.0	6.0	761.3	759.3									29.4	
09-801	5	SS	765.26	8.0	10.0	757.3	755.3									27.8	
09-801	9	SS	765.26	16.0	18.0	749.3	747.3									47.6	
09-801	12	SS	765.26	22.0	24.0	743.3	741.3									90.2	
09-801	15	SS	765.26	28.0	30.0	737.3	735.3									87.7	
09-801	18	SS	765.26	34.0	36.0	731.3	729.3									91.1	
09-801	21	SS	765.26	40.0	42.0	725.3	723.3									74.6	
09-801	24	SS	765.26	46.0	48.0	719.3	717.3									35.2	
09-801	27	SS	765.26	52.0	54.0	713.3	711.3									25.8	
09-801	30	SS	765.26	58.0	60.0	707.3	705.3									27.8	
09-801	31	SS	765.26	60.0	61.0	705.3	704.3									12.5	

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TABLE 1.4_T1 SUMMARY OF LABORATORY TESTING

2-inch Shelby Tubes

Boring No.	Sample No.	Sample Type	Surface Elevation ft.	Tube Depth ft.		ft.	Tube Elevation ft.		ft.	USCS (computed)	Atterbergs LL	PL	PI	G_S	ASTM D422 Grain Size Analysis % Gravel	% Sand	%Silt	% Clay	ASTM D1140 P200	QP (tsf)
09-100A	S-1	2ST	767.27	15.0		17.5	752.3		749.8											
09-100A	S-2	2ST	767.27	20.0		22.5	747.3		744.8											
09-100A	S-3	2ST	767.27	25.0		27.5	742.3		739.8											
09-100A	S-4	2ST	767.27	30.5		33.0	736.8		734.3											
09-100A	S-5	2ST	767.27	33.0		35.5	734.3		731.8											
09-100A	S-6	2ST	767.27	35.5		38.0	731.8		729.3											
09-102A	S-1	2ST	761.68	42.0	-	43.5	719.7		718.2	CL-ML	21	15	6		0.4	41.8	36.1	21.7		
09-102A	S-2	2ST	761.68	43.5	-	45.5	718.2		716.2	SM	19	19	NP		5.3	50.6	28.5	15.6		
09-103A	S-1	2ST	766.11	36.0	-	37.5	730.1		728.6	ML	34	30	4	2.676	0.0	27.5	49.4	23.1		
09-103A	S-1A	2ST	766.11				766.1		766.1	CL-ML	22	17	5	2.662	0.0	33.4	44.5	22.1		
09-103A	S-2	2ST	766.11	37.5	-	39.0	728.6		727.1	ML	16	18	NP	2.699	0.0	42.2	39.7	18.1		
09-103A	S-3	2ST	766.11	39.0	-	40.5	727.1		725.6	ML	16	14	2	2.754	1.0	38.8	44.2	16.0		
09-103A	S-4	2ST	766.11	42.0	-	44.0	724.1		722.1	CL-ML	21	14	7		0.0	46.3	35.9	17.8		
09-104B	S-9	2ST	761.29	35.0		37.0	726.3		724.3											
09-105A	S-1	2ST	748.73	13.0		15.0	735.7		733.7	CL	27	17	10		0.0	17.0	42.6	40.4		0.25
09-105A	S-2A	2ST	748.73	15.0		17.0	733.7		731.7	CL	27	19	8	2.678	0.0	47.1	30.0	22.9		1.75
09-105A	S-3A	2ST	748.73	17.0		19.0	731.7		729.7	SM	19	22	NP		0.0	61.8	19.5	18.7		
09-107A	S-1		762.42				732.4		732.0		24	16	8							
09-107A	S-2	2ST	762.42	30.0		31.5	732.4		730.9	CL	24	16	8		0.0	34.8	39.9	25.3		
09-108A	S-1	2ST	759.27	25.5	-	27.5	733.8		731.8	CL-ML	22	16	6	2.686	0.0	33.2	44.7	22.1		
09-108A	S-2		759.27				759.3		759.3	CL	23	14	9		0.0	33.1	41.3	25.6	66.9	
09-109A	S-1	2ST	763.27	30.0		32.0	733.3		731.3											
09-109A	S-3	2ST	763.27				763.3		763.3	CL-ML	19	16	3							
09-109A	S-3A	2ST	763.27				763.3		763.3	CL-ML	21	14	7							
09-110A	S-1		774.77				774.8		774.8	CL	26	16	10		0.0	32.5	37.7	29.8	67.5	
09-110A	ST-2	2ST	774.77	40.0		42.0	734.8		732.8	CL	24	16	8							
09-200A	S-1	2ST	765.15	35.0		37.0	730.2		728.2	ML	19	17	2	2.664	2.1	32.3	47.5	18.1		0.5
09-200A	S-1	2ST	765.15	13.5		16.0	751.7		749.2											
09-200A	S-2	2ST	765.15	42.0		44.0	723.2		721.2	CL	26	15	11		2.3	25.5	43.0	29.2		0.5
09-200A	S-3	2ST	765.15	30.0		32.5	735.2		732.7											
09-200A	S-4	2ST	765.15	32.5		35.0	732.7		730.2											
09-200A	S-5	2ST	765.15	35.0		37.5	730.2		727.7											
09-201A	S-1	2ST	760.51	26.0	-	28.0	734.5		732.5	CL-ML				2.701	0.0	41.5	31.6	26.9		0.25
09-201A	S-2	2ST	760.51	28.0	-	29.5	732.5		731.0	CL	27	16	11		0.7	38.6	33.0	27.7		0.5
09-201A	S-3	2ST	760.51	29.5	-	31.5	731.0		729.0	CL	28	19	9	2.692	0.0	29.4	42.9	27.7		1.5
09-202A	S-1		761.31	30.0		32.0	731.3		729.3	CL-ML	19	16	3	2.72	0.0	35.0	55.2	9.8		
09-202A	S-3	2ST	761.31				######		######	ML	20	17	3							

TABLE 1.4_T1 SUMMARY OF LABORATORY TESTING

2-inch Shelby Tubes

Boring No.	Sample No.	Sample Type	Surface Elevation ft.	Tube Depth ft.		ft.	Tube Elevation ft.		ft.	USCS (computed)	Atterbergs LL	PL	PI	G_s	ASTM D422 Grain Size Analysis % Gravel	% Sand	%Silt	% Clay	ASTM D1140 P200	QP (tsf)
09-203A	S-2		759.36	26.5		28.5	732.9		730.9	CL	25	16	9	2.72	0.0	33.9	37.9	28.2		
09-203A	S-3		759.36	28.5		30.5	730.9		728.9	CL	25	16	9	2.72	0.0	45.7	29.5	24.8		
09-204A	S-1	2ST	749.55	14.0	-	15.5	735.6		734.1	CL	25	16	9		0.0	27.8	49.5	22.7		
09-204A	S-2	2ST	749.55	15.5	-	17.0	734.1		732.6	CL-ML	21	15	6		0.0	40.4	39.4	20.2		
09-204A	S-3	2ST	749.55	17.0	-	18.5	732.6		731.1	CL-ML	24	17	7		0.0	33.4	43.2	23.4		
09-204A	S-4	2ST	749.55	18.5	-	20.0	731.1		729.6	CL-ML	20	15	5		0.0	35.8	43.4	20.8		
09-204A	S-5	2ST	749.55	20.0	-	21.5	729.6		728.1	CL	25	17	8	2.708	1.5	23.5	47.8	27.2		
09-204A	S-6	2ST	749.55	21.5	-	23.0	728.1		726.6	CL-ML	21	16	5		0.0	35.3	46.7	18.0		
09-205A	S-1	2ST	754.33	13.5	-	15.5	740.8		738.8	ML	NV	NP	NP		5.8	32.8	47.5	13.9		
09-205A	S-4		754.33				754.3		754.3	CL	28	17	11	2.244	0.0	13.4	48.5	38.1		
09-205A	S-5		754.33				754.3		754.3	CL	32	18	14		0.3	18.1	45.5	36.1		
09-205A	S-6		754.33				754.3		754.3	SM					0.0	50.0	29.6	20.4		
09-206A	S-1	2ST	754.98	14.0	-	15.5	741.0		739.5	CL	29	16	13		0.0	26.6	37.9	35.5		
09-206A	S-2	2ST	754.98	15.5	-	17.0	739.5		738.0	CL	31	18	13	2.701	0.0	10.7	48.0	41.3		
09-206A	S-3	2ST	754.98	17.0	-	18.5	738.0		736.5	CL	32	18	14		0.0	10.7	45.4	43.9		
09-206A	S-4	2ST	754.98	18.5	-	20.0	736.5		735.0	CL	33	18	15	2.706	0.0	16.8	44.9	38.3		
09-206A	S-5	2ST	754.98	20.0	-	21.5	735.0		733.5	ML	20	19	1		0.0	42.8	38.4	18.8		
09-206A	S-6		754.98	21.5		23.0	733.5		732.0	CL-ML	23	17	6		0.0	41.1	35.1	23.8	58.9	
09-206A	S-7		754.98	23.0		24.5	732.0		730.5	CL	25	17	8		0.0	40.6	35.9	23.5	59.4	
09-207A	S-3A		747.31	17.5		19.5	729.8		727.8	CL	30	17	13		0.0	19.2	44.8	36.0	80.8	
09-207A	S-4A		747.31	19.5		21.0	727.8		726.3	CL	37	19	18		0.0	12.3	52.1	35.6	87.7	
09-207A	S-5A		747.31	21.0		22.5	726.3		724.8	CL	31	15	16		0.0	19.8	48.0	32.2	80.2	
09-208A	2		744.85				736.9		735.9	CL	47	21	26		0.0	5.9	43.5	50.6		
09-208A	3		744.85	10.0		12.0	734.9		732.9	CL	29	18	11	2.72	0.0	32.8	37.9	29.3		
09-208A	4		744.85	12.0		14.0	732.9		730.9	CL	29	18	11	2.72	0.0	31.2	38.2	30.6		
09-209A	S-1	2ST	746.42	6.0		8.5	740.4		737.9											
09-209A	S-2	2ST	746.42	8.5		11.0	737.9		735.4											
09-209A	S-2	2ST	746.42	8.5		10.5	737.9		735.9	CL	38	19	19							
09-209A	S-3	2ST	746.42	11.0		13.0	735.4		733.4											
09-209A	S-3	2ST	746.42	10.5		12.5	735.9		733.9	CL	26	17	9		0.0	41.6	34.1	24.3		
09-209A	S-4	2ST	746.42	12.5		14.0	733.9		732.4	ML	21	19	2							
09-210A	S-1		749.94	10.0		12.0	739.9		737.9		24	28	NP	2.33	7.6	20.3	53.3	18.8		
09-210A	S-2		749.94	12.0		14.0	737.9		735.9		37	19	18	2.72	0.0	17.0	37.1	45.9		

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TABLE 1.4_T1 SUMMARY OF LABORATORY TESTING

2-inch Shelby Tubes

Boring No.	Sample No.	Sample Type	Surface Elevation ft.	Tube Depth ft.		ft.	Tube Elevation ft.		ft.	USCS (computed)	Atterbergs LL	PL	PI	G_S	ASTM D422 Grain Size Analysis % Gravel	% Sand	%Silt	% Clay	ASTM D1140 P200	QP (tsf)
09-211A	S-1	2ST	765.43	24.0		26.0	741.4		739.4	SM	16	17	NP		0.5	69.1	16.2	14.2		
09-211A	S-1A	2ST	765.43				765.4		765.4	CL	27	15	12		0.0	29.5	37.0	33.5		
09-211A	S-2	2ST	765.43	26.0		28.0	739.4		737.4	CL	24	12	12							
09-303A	S-2		817.49	26.0		28.0	791.5		789.5	CL	30	17	13							
09-303A	S-3	2ST	817.49	90.5		92.0	727.0		725.5	CL	33	20	13	2.702	0.3	20.8	45.4	33.5		0.5
09-303A	S-4	2ST	817.49	92.0		93.5	725.5		724.0	CL	29	18	11	2.764	0.0	35.5	32.6	31.9		1.25
09-303A	S-5		817.49	93.5		95.0	724.0		722.5	CL	25	16	9							
09-303A	S-6		817.49	100.0		100.5	717.5		717.0	CL-ML	21	15	6		0.0	45.1	34.1	20.8	54.9	
09-303A	S-7		817.49	102.0		104.0	715.5		713.5	SM	14	12	2		0.0	51.6	31.0	17.4	48.4	
09-303A	S-8		817.49	104.0		106.0	713.5		711.5	SM-SC	17	13	4		0.0	62.8	23.1	14.1	37.2	
09-402A	S-1	2ST	765.03	36.5		38.5	728.5		726.5	CL	35	18	17							
09-402A	S-2	2ST	765.03	38.5		40.5	726.5		724.5	CL	44	20	24		0.0	20.7	24.4	54.9		
09-402A	S-3	2ST	765.03	40.5		42.5	724.5		722.5	CL	41	24	17							
09-402A	S-4	2ST	765.03	42.5		44.5	722.5		720.5	CL	33	17	16							
09-402A	S-5	2ST	765.03	44.5		46.5	720.5		718.5	ML	18	15	3							
09-402A	S-6	2ST	765.03	46.5		48.5	718.5		716.5	ML	19	16	3		0.0	33.5	41.3	25.2		
09-404A	S-1	2ST	763.62	39.0		41.0	724.6		722.6	CL	26	16	10							
09-404A	S-2	2ST	763.62	41.0		43.0	722.6		720.6	ML	7	19	NP							
09-404A	S-2A	2ST	763.62	41.0		43.0	722.6		720.6	CL	24	16	8							
09-404A	S-3	2ST	763.62	43.0		45.0	720.6		718.6	ML	18	23	NP		0.0	4.1	78.0	17.9		
09-404A	S-3A	2ST	763.62	43.0		45.0	720.6		718.6	CL-ML	25	18	7							
09-406A	ST-1		764.42	35.0		37.0	729.4		727.4	CL	39	29	10		0.0	37.8	23.5	38.7		0.5
09-406A	S-2	2ST	764.42	36.0	-	38.0	728.4		726.4	CL	32	18	14		0.0	34.5	35.1	30.4		0.5
09-406A	S-3	2ST	764.42	38.0	-	40.0	726.4		724.4	CL-ML	25	18	7	2.706	0.0	36.1	36.7	27.2		0.25
09-406A	S-4	2ST	764.42	40.0	-	42.0	724.4		722.4	SM					1.1	64.8	22.4	11.7		
09-406A	S-4A	2ST	764.42				764.4		764.4	SM	23	21	2		0.6	50.7	30.1	18.6		0.5
09-406A	S-5	2ST	764.42	42.0	-	44.0	722.4		720.4	CL	27	17	10	2.699	0.0	18.4	51.0	30.6		0.25
09-406A	S-6	2ST	764.42	44.0	-	46.0	720.4		718.4	CL	26	18	8		0.0	26.9	46.9	26.2		0.25
09-406A	S-7	2ST	764.42	46.0	-	48.0	718.4		716.4	CL-ML	23	18	5	2.718	0.0	21.4	52.2	26.4		0.25
09-406A	S-8	2ST	764.42	48.0	-	50.0	716.4		714.4	ML	18	17	1		0.0	37.5	43.4	19.1		0.25
09-408A	S-9	2ST	764.35	4.5		43.0	759.9		721.4											
09-408A	S-1	2ST	764.35	15.0		17.5	749.4		746.9	ML	13	26	NP							
09-408A	S-2	2ST	764.35	17.5		20.0	746.9		744.4	CL-ML	29	22	7		0.0	47.8	31.3	20.9	52.2	
09-408A	S-3	2ST	764.35	20.0		22.5	744.4		741.9											
09-408A	S-4	2ST	764.35	22.5		25.0	741.9		739.4	CL	24	14	10		0.0	45.9	25.3	28.8	54.1	
09-408A	S-5	2ST	764.35	30.0		32.5	734.4		731.9	ML	18	15	3		0.0	48.7	29.5	21.8	51.3	
09-408A	S-6	2ST	764.35	33.0		35.5	731.4		728.9											
09-408A	S-7	2ST	764.35	35.5		38.0	728.9		726.4											
09-408A	S-1A	2ST	764.35	36.0		37.0	728.4		727.4	OH	52	29	23							
09-408A	S-8	2ST	764.35	38.0		40.0	726.4		724.4											
09-408A	S-10	2ST	764.35	43.0		45.5	721.4		718.9											
09-408A	S-11	2ST	764.35	45.5		48.0	718.9		716.4											
09-408A	S-12	2ST	764.35	48.0		50.5	716.4		713.9											

TABLE 1.4_T1 SUMMARY OF LABORATORY TESTING

2-inch Shelby Tubes

Boring No.	Sample No.	Sample Type	Surface Elevation ft.	Tube Depth ft.	Tube Depth ft.	Tube Elevation ft.	Tube Elevation ft.	USCS (computed)	Atterbergs LL	Atterbergs PL	Atterbergs PI	G_S	ASTM D422 Grain Size Analysis % Gravel	% Sand	%Silt	% Clay	ASTM D1140 P200	QP (tsf)
09-410A	S-1		762.08	14.0	16.0	748.1	746.1	CH	57	20	37							
09-410A	S-2A		762.08	18.5	19.5	743.6	742.6	CL	43	17	26							
09-410A	S-4		762.08	22.5	24.5	739.6	737.6	CL-ML	22	18	4		7.8	35.3	37.8	19.1	56.9	
09-410A	S-6		762.08	32.0	34.0	730.1	728.1	CL	33	17	16		0.0	36.2	31.4	32.4		
09-413A	S-1	2ST	764.49	6.0	8.0	758.5	756.5	CL	40	18	22	2.709	30.0	25.7	15.4	28.9		
09-413A	S-2	2ST	764.49	8.0	10.0	756.5	754.5	CL	48	19	29		1.0	24.6	18.4	56.0		
09-413A	S-3	2ST	764.49	10.0	12.0	754.5	752.5	CL	44	20	24	2.723	17.5	25.0	17.7	39.8		
09-413A	S-4	2ST	764.49	12.0	14.0	752.5	750.5	CL	49	22	27		2.9	24.5	21.9	50.7		
09-413A	S-5	2ST	764.49	14.0	16.0	750.5	748.5	CL	43	21	22	2.729	1.5	26.5	24.2	47.8		
09-413A	S-6	2ST	764.49	27.5	29.5	737.0	735.0	ML	21	27	NP		0.6	49.0	35.6	14.8		
09-413A	S-7		764.49	31.5	33.5	733.0	731.0	ML	15	15	NP		1.5	38.5	42.9	17.1	60	
09-413A	S-8		764.49	33.5	35.5	731.0	729.0	ML					4.9	37.0	40.6	17.5		
09-500A	S-1	2ST	757.01	30.0	32.0	727.0	725.0	CL	34	20	14							
09-500A	S-1A	2ST	757.01	30.0	32.0	727.0	725.0	ML	19	16	3							
09-500A	S-2	2ST	757.01	32.0	34.0	725.0	723.0	CL	23	15	8		1.2	26.2	47.0	25.6		
09-500A	S-3	2ST	757.01	34.0	36.0	723.0	721.0	CL	28	14	14							
09-502A	S-1	2ST	753.16	5.0	7.5	748.2	745.7	CL	30	16	14		0.0	32.6	34.9	32.5	67.4	
09-502A	S-2	2ST	753.16	10.0	12.5	743.2	740.7	ML					0.0	54.6	24.4	21.0		
09-503A	S-1	2ST	768.25	23.0	25.5	745.3	742.8	CL-ML	27	21	6							
09-503A	S-2	2ST	768.25	31.0	33.5	737.3	734.8	CL-ML	21	16	5		0.0	19.4	60.5	20.1		
09-503A	S-2A	2ST	768.25	37.5	39.5	730.8	728.8	CL	32	16	16							
09-503A	S-3	2ST	768.25	35.5	38.0	732.8	730.3	CL	30	16	14							
09-503A	S-4	2ST	768.25	38.0	4.5	730.3	763.8	CL-ML	23	16	7							
09-600A	S-2	2ST	777.3	47.5	49.5	729.8	727.8	CL	31	18	13		0.0	38.2	32.0	29.8		
09-600A	S-3	2ST	777.3	49.5	50.5	727.8	726.8	CL	28	19	9							
09-601A	S-1	2ST	775.08	40.0	42.0	735.1	733.1	CL	23	14	9							
09-601A	S-2	2ST	775.08	42.0	44.0	733.1	731.1	CL	27	16	11		0.0	46.2	26.1	27.7		
09-601A	S-3	2ST	775.08	44.0	46.0	731.1	729.1	CL-ML	17	11	6							
09-601A	S-4	2ST	775.08	46.0	48.0	729.1	727.1	ML	13	11	2							
09-602A	S-1		781.1	55.0	57.0	726.1	724.1	CL	26	18	8							
09-602A	S-2		781.1	61.5	63.0	719.6	718.1	CL-ML	22	16	6							
09-602A	S-3	2ST	781.1	63.0	63.5	718.1	717.6	CL-ML	16	11	5		0.0	48.5	35.1	16.4		
09-604A	S-1	2ST	782.39	64.0	66.0	718.4	716.4	CL	35	18	17							
09-604A	S-2	2ST	782.39	66.0	68.0	716.4	714.4	CL	28	16	12		0.0	26.4	41.5	32.1		
09-604A	S-3		782.39			782.4	782.4	SM					0.0	53.0	28.6	18.4		
09-604A	S-4	2ST	782.39	72.0	74.0	710.4	708.4	CL-ML	19	15	4							
09-605A	ST-1	2ST	781.81	49.5	51.5	732.3	730.3	CL	23	13	10							
09-605A	ST-2	2ST	781.81	51.5	53.5	730.3	728.3	CL-ML	24	17	7							
09-605A	ST-3	2ST	781.81	53.5	55.5	728.3	726.3	CL	38	23	15							
09-605A	ST-4		781.81	55.5	57.0	726.3	724.8	CL	37	20	17		0.0	41.2	25.6	33.2	58.8	

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TABLE 1.4_T1 SUMMARY OF LABORATORY TESTING

2-inch Shelby Tubes

Boring No.	Sample No.	Sample Type	Surface Elevation ft.	Tube Depth ft.	Tube Depth ft.	Tube Elevation ft.	Tube Elevation ft.	USCS (computed)	Atterbergs LL	Atterbergs PL	Atterbergs PI	G_S	ASTM D422 Grain Size Analysis % Gravel	% Sand	%Silt	% Clay	ASTM D1140 P200	QP (tsf)
09-700A	S-1		764.48	23.0	25.0	741.5	739.5	ML	21	25	NP							
09-700A	S-2		764.48	25.0	27.0	739.5	737.5	CL	25	15	10							
09-700A	ST-3	2ST	764.48	27.0	29.0	737.5	735.5	CL	31	16	15		0.0	29.9	37.1	33.0		
09-700A	ST-4		764.48	29.0	31.0	735.5	733.5	SM	18	17	1		0.0	54.3	26.0	19.7		
09-700A	ST-5		764.48	31.0	33.0	733.5	731.5	SM	NV	NP	NP		0.0	57.0	22.3	20.7		
09-708A1	S-1		763.71			735.7	735.2	ML	18	24	NP							
09-708A1	S-2		763.71	30.0	32.0	733.7	731.7	CL	21	13	8		0.0	38.1	41.0	20.9		
09-708A1	S-3		763.71	32.0	34.0	731.7	729.7	ML	16	13	3		0.0	44.6	34.8	20.6		
09-708A1	S-4		763.71	34.0	36.0	729.7	727.7	CL	31	17	14							
09-712A1	S-2		763.77	45.8	46.0	718.0	717.8	ML	22	19	3							
09-712A1	S-3		763.77	44.5	46.0	719.3	717.8	SM	16	15	1		0.0	55.9	29.8	14.3		
09-712A1	S-4		763.77	46.0	47.5	717.8	716.3	ML	20	18	2							
09-712A2	S-1		763.67	42.0	44.0	721.7	719.7	CL-ML	23	17	6							
09-712A2	S-2		763.67	44.0	46.0	719.7	717.7	CL	25	15	10		0.0	45.5	30.7	23.8		
09-712A2	S-3	2ST	763.67	46.0	47.0	717.7	716.7	CL	25	15	8		0.0	47.1	32.4	20.5		
09-800A	ST-1		762.9	29.0	30.5	733.9	732.4	CL-ML	23	18	5							
09-800A	ST-2	2ST	762.9	30.5	32.0	732.4	730.9	SM-SC	21	17	4		0.0	50.8	30.7	18.5		
09-800A	ST-3		762.9	33.5	35.5	729.4	727.4	SM	18	17	1		0.0	51.7	27.2	21.1	48.3	
09-801A	ST-1		765.13	37.5	39.5	727.6	725.6	CL	27	19	8							
09-801A	ST-2	2ST	765.13	39.5	41.5	725.6	723.6	CL-ML	20	15	5		1.4	27.2	50.3	21.1		
09-801A	ST-3		765.13	41.5	43.5	723.6	721.6	CL	26	18	8							
09-801A	ST-4		765.13	43.5	45.5	721.6	719.6	CL	35	20	15							
09-801A	ST-5		765.13	45.5	47.5	719.6	717.6	CL	29	21	8							
09-801A	ST-6	2ST	765.13	47.5	49.5	717.6	715.6	CL	26	17	9		0.0	47.3	32.8	19.9		
09-801A	ST-6A	2ST	765.13	47.5	49.5	717.6	715.6	CL	24	16	8		0.0	42.1	37.4	20.5		
09-801A	ST-7		765.13	49.5	51.5	715.6	713.6	CL	25	16	9		0.0	44.1	33.2	22.7	55.9	
09-801A	ST-8		765.13	51.5	53.5	713.6	711.6	CL	23	15	8		0.0	42.8	35.6	21.6	57.2	
09-801A	ST-9		765.13	53.5	55.5	711.6	709.6	SM	16	13	3		1.2	58.5	23.2	17.1	40.3	
09-902A	S-2		766.27	24.0	26.0	742.3	740.3						0.0	54.6	24.4	21.0		

TABLE 1.4_T1 SUMMARY OF LABORATORY TESTING

			Surface Elevation	Tube Depth			Tube Elevation				Atterbergs				ASTM D422 Grain Size Analysis				ASTM D1140	Consolidation						Triaxial							Direct Shear				
Boring No.	Sample No.	Sample Type	ft.	ft.		ft.	ft.		ft.	USCS (computed)	LL	PL	PI	G_S	% Gravel	% Sand	% Silt	% Clay	P200	Density (γd_0)	W/C_0	C_c	C_{cr}	e_0	P_c (tsf)	W/C	Test	$s_{3'}$ (tsf)	c' (tsf)	ϕ'	s_u (tsf)	ε_1 at Peak	Density (γd_0)	W/C_0	s_n (tsf)	c' (tsf)	ϕ'
09-100B	1-TIP	OST	767.02	15.0	-	17.5	752.0	-	749.5										71.8																		
09-100B	2-TIP	OST	767.02	20.0	-	22.5	747.0	-	744.5										96.9																		
09-100B	3-TIP	OST	767.02	25.0	-	27.5	742.0	-	739.5										86.0																		
09-100B	4-TIP	OST	767.02	30.5	-	33.0	736.5	-	734.0										88.8																		
09-100B	5-TIP	OST	767.02	33.0	-	35.5	734.0	-	731.5										97.1																		
09-100B	6-TIP	OST	767.02	35.5	-	38.0	731.5	-	729.0										65.6																		
09-101B	S-1	OST	766.86	10.0	-	12.5	756.9	-	754.4																												
09-101B	S-2	OST	766.86	15.0	-	17.5	751.9	-	749.4																												
09-101B	S-3	OST	766.86	20.0	-	22.5	746.9	-	744.4																												
09-101B	S-4	OST	766.86	35.5	-	38.0	731.4	-	728.9																												
09-101B	S-5	OST	766.86	38.0	-	40.5	728.9	-	726.4																												
09-101B	S-6	OST	766.86	46.0	-	48.5	720.9	-	718.4																												
09-102B	S-1	OST	761.42	20.0	-	22.5	741.4	-	738.9																												
09-102B	S-2	OST	761.42	29.5	-	32.0	731.9	-	729.4					2.31																			85.102	30.21	0.8644	0	27.6
09-102B	S-2	OST	761.42	29.5	-	32.0	731.9	-	729.4	CL	30	21	9	2.64						61.439	27.62	0.170	0.007	0.72	2.50								66.54	50.79	0.9	0	34.9
09-102B	S-2	OST	761.42	29.5	-	32.0	731.9	-	729.4																								85.374	30.39	0.8043	0	35.4
09-102B	S-2	OST	761.42	29.5	-	32.0	731.9	-	729.4																								77.54	30.89	0.9	0	23.4
09-102B	S-3	OST	761.42	32.0	-	34.5	729.4	-	726.9																												
09-102B	S-4	OST	761.42	43.7	-	46.2	717.7	-	715.2	CL	27	17	10	2.70						99.98	22.42	0.187	0.017	0.68	2.20	24.70	CIU	0.540	0.0	29.5	0.90	27.9					
09-103B	S-1	OST	766.37	20.0		22.5	746.4	-	743.9										71.4																		
09-103B	S-2	OST	766.37	32.5		36.0	733.9	-	730.4	ML					0	43.3	40.2	16.5	59.5																		
09-103B	S-3	OST	766.37	36.0		38.5	730.4	-	727.9										78.6																		
09-103B	S-4	OST	766.37	39.5		40.0	726.9	-	726.4	CL-ML	23	17	6	2.72						98.771	24.91	0.213	0.023	0.72	2.70	21.90	CIU	0.480	0.0	12.1	0.14	26.1					
09-103B	S-5	OST	766.37	41.0	-	43.0	725.4	-	723.4	CL-ML	29	22	7	2.72						99.691	24.03	0.166	0.023	0.70	2.95	23.40	CIU	0.500	0.0	33.5	0.96	26.2					
09-104B	S-1	OST	761.29	10.0	-	12.5	751.3	-	748.8																												
09-104B	S-3	OST	761.29	23.0	-	22.5	738.3	-	738.8																												
09-104B	S-4	OST	761.29	22.5	-	25.5	738.8	-	735.8																												
09-104B	S-5	OST	761.29	25.0	-	27.5	736.3	-	733.8	CL	29	18	11	2.69						84.46	34.25	0.335	0.015	0.99	3.40												
09-104B	S-5B	OST	761.29	25.0		27.5	736.3	-	733.8																												
09-104B	S-6	OST	761.29	27.5	-	30.0	733.8	-	731.3	CL	29	19	8	2.72						63.188		0.701	0.037	1.69	4.65												
09-104B	S-7	OST	761.29	30.0	-	32.5	731.3	-	728.8																												
09-104B	S-8	OST	761.29	32.5	-	35.0	728.8	-	726.3																												
09-104B	S-9	OST	761.29	32.5	-	35.0	728.8	-	726.3																												
09-105B	S-1	OST	748.35	13.0	-	15.5	735.4	-	732.9	CL	27	17	10	2.70						103.76	22.39	0.173	0.014	0.63	2.05								101.3	20.73	0.8645	0	34.3
09-105B	S-2	OST	748.35	15.5	-	18.0	732.9	-	730.4	CL	26	16	10	2.70						103.78	21.04	0.189	0.012	0.62	2.60	20.00	CIU	0.200	0.0	36.6	2.18	24.9	85.535	30.70	0.5006	0	36.1
09-105B	S-3	OST	748.35	18.0	-	20.5	730.4	-	727.9					2.71																							
09-107B	S-1	OST	762.78	27.5		30.0	735.3	-	732.8										22.3																		
09-107B	S-5	OST	762.78	47.0		49.5	715.8	-	713.3	SM	23	21	2																				96.78	26.39	1.1535	0	34.2
09-108B	S-2	OST	759.70	23.5	-	26.0	736.2	-	733.7																												
09-108B	S-2	OST	759.70	23.5		25.0	736.2	-	734.7										98.2																		
09-108B	S-3	OST	759.70	26.0	-	28.5	733.7	-	731.2	CL	30	16	14	2.70						102.54	22.20	0.169	0.012	0.64	2.75	23.40	CIU	0.320	0.0	34.0	0.44	28.5					
09-109B	S-1	OST	763.41	20.5		23.0	742.9	-	740.4										97.8																		
09-109B	S-3	OST	763.41	25.5		28.0	737.9	-	735.4										44.3																		
09-109B	S-4	OST	763.41	30.0		30.5	733.4	-	732.9	CL-ML	20	15	5	2.70						112	18.53	0.098	0.016	0.50	3.00	19.10	CIU	0.690	0.0	34.1	0.37	12.3					
09-109B	S-5	OST	763.41	30.5		33.0	732.9	-	730.4	CL-ML	19	15	4	2.69						107.38	20.17	0.128	0.011	0.56	2.85	19.80	CIU	0.750	0.0	32.4	0.55	20.4	108.7	19.39	12	0	32.5
09-109B	S-6	OST	763.41	33.0		35.5	730.4	-	727.9	SM	13	18	NP	2.70						111.28		0.115	0.010	0.51	3.60	22.40	CIU	0.810	0.0	34.3	1.20	19.9					
09-200B	1-TOP	OST	764.41	13.5		16.0	750.9	-	748.4										87.9																		
09-200B	2	OST	764.41	19.5		22.0	744.9	-	742.4										85.5																		
09-200B	5	OST	764.41	36.0		36.5	728.4	-	727.9	CL	28	15	13	2.72						105.07		0.136	0.020	0.62	2.25												
09-200	Remolded	8 psi																															71.624	116.06	0.5765	0	42.2
09-200	Remolded	16 psi																															72.587	121.17	1.1523	0	37.6
09-200	Remolded	32 psi																															82.931	46.10	2.3045	0	33.6
09-200	Remolded	64 psi																															53.027	78.69	4.6083	0	27.8
09-200	Remolded	128 psi																															62.316	47.67	9.2158	0	26.8

TABLE 1.4_T1 SUMMARY OF LABORATORY TESTING

			Surface Elevation	Tube Depth			Tube Elevation				Atterbergs				ASTM D422 Grain Size Analysis				ASTM D1140	Consolidation						Triaxial							Direct Shear				
Boring No.	Sample No.	Sample Type	ft.	ft.		ft.	ft.		ft.	USCS (computed)	LL	PL	PI	G_S	% Gravel	% Sand	% Silt	% Clay	P200	Density (γd_0)	W/C_0	C_c	C_{cr}	e_0	P_c (tsf)	W/C	Test	$s_{3'}$ (tsf)	c' (tsf)	ϕ'	s_u (tsf)	ε_1 at Peak	Density (γd_0)	W/C_0	s_n (tsf)	c' (tsf)	ϕ'
09-201B	S-1	OST	760.65	16.0		18.5	744.7	-	742.2	ML					0	20.4	74.5	5.1	46.6																			
09-201B	S-1	OST	760.65	16.0	-	18.5	744.7	-	742.2											97.233	26.07	0.187	0.014	0.75	1.10												
09-201B	S-2	OST	760.65	25.5	-	28.0	735.2	-	732.7																												
09-201B	S-3	OST	760.65	28.0	-	30.5	732.7	-	730.2	CL	28	18	10	2.72					74.3	97.233		0.187	0.014	0.75	2.75	25.10	CIU	0.380	0.0	28.5	0.59	23.9					
09-202B	S-1	OST	761.26	26.0	-	28.5	735.3	-	732.8	ML					0	1.5	75.8	22.7																			
09-202B	S-2	OST	761.26	28.5	-	31.0	732.8	-	730.3																												
09-202B	S-2	OST	761.26	29.5		31.0	731.8	-	730.3										97.3																		
09-202B	S-3	OST	761.26	31.0	-	33.5	730.3	-	727.8	CL-ML	19	14	5	2.72						109.83	18.69	0.118	0.013	0.55	3.60	18.80	CIU	0.380	0.0	38.0	1.34	24.9					
09-203B	S-1	OST	759.13	18.5		21.0	740.6	-	738.1	ML					0	36.1	59.7	4.2																			
09-203B	S-3	OST	759.13	23.5		26.0	735.6	-	733.1										97.6																		
09-203B	S-3	OST	759.13	23.5		26.0	735.6	-	733.1		21	18	3																								
09-203B	S-4	OST	759.13	26.0		28.5	733.1	-	730.6	CL																											
09-203B	S-5	OST	759.13	28.5		31.0	730.6	-	728.1	CL	25	19	6	2.71						114.18	18.39	0.133	0.020	0.48	3.50	15.50	CIU	0.350	0.0	42.1	2.29	20.7	95.05	18.25	12.002	0	27.4
09-203B	S-6	OST	759.13	31.0		33.5	728.1	-	725.6	CL	26	16	10	2.68						112.42	18.68	0.156	0.020	0.49	4.20	18.40	CIU	0.390	0.0	36.3	1.87	13.9					
09-203B2	S-1	OST	759.14	21.0		23.5	738.1	-	735.6										95.8																		
09-203B2	S-1	OST	759.14	21.0		23.5	738.1	-	735.6	ML					0	11.3	75.8	12.9																			
09-203B2	S-2	OST	759.14	23.5		26.0	735.6	-	733.1										90.6																		
09-203B2	S-2	OST	759.14	23.5		26.0	735.6	-	733.1																												
09-203B2	S-3	OST	759.14	26.0		28.5	733.1	-	730.6	CL-ML	19	15	4	2.72						113.81	17.74	0.113	0.011	0.49	2.65	17.40	CIU	0.640	0.0	36.5	2.05	20.5					
09-204B	S-1	OST	750.03	6.0	-	8.5	744.0	-	741.5	ML					0	1.0	85.6	13.4																			
09-204B	S-2	OST	750.03	8.5	-	11.0	741.5	-	739.0																												
09-204B	S-3	OST	750.03	11.0	-	13.5	739.0	-	736.5	CL	33	17	16								20.65	0.178	0.023	0.57	2.65												
09-204B	S-4	OST	750.03	13.0	-	15.5	737.0	-	734.5	CL	43	20	23																								
09-204B	S-5	OST	750.03	15.5	-	18.0	734.5	-	732.0	CL-ML	21	15	6	2.69						113.81	20.73	0.186	0.023	0.61	3.50	21.40	CIU	0.200	0.0	36.9	1.14	13.0	105.6	20.67	12.013	0	32.3
09-204B	S-6	OST	750.03	18.0	-	20.5	732.0	-	729.5	CL	23	15	8	2.70						111.61	20.82	0.182	0.020	0.51	4.10	20.40	CIU	0.230	0.0	38.0	0.96	19.9					
09-204B	S-6	OST	750.03	20.5	-	23.0	729.5	-	727.0																												
09-204B	S-7	OST	750.03	20.5	-	20.5	729.5	-	729.5																												
09-205B	S-1	OST	755.26	11.0	-	13.5	744.3	-	741.8	ML					0	8.1	78.8	13.1																			
09-205B	S-2	OST	755.26	16.0	-	18.5	739.3	-	736.8	CL	28	17	11	2.71						105.09		0.183	0.023	0.62	3.80	20.30	CIU	0.210	0.0	40.2	2.16	24.3					
09-205B	S-3	OST	755.26	18.5	-	21.0	736.8	-	734.3	CL-ML	23	16	7	2.71						105.27		0.183	0.023	0.61	3.70	18.90	CIU	0.240	0.0	41.9	1.16	22.2	92.42	20.52	12.001	0	29.0
09-206B	S-1	OST	754.56	10.0	-	12.5	744.6	-	742.1																												
09-206B	S-2	OST	754.56	12.5	-	15.0	742.1	-	739.6																												
09-206B	S-3	OST	754.56	15.0	-	17.5	739.6	-	737.1	CL	36	22	14	2.69						96.648	21.70	0.270	0.037	0.74	3.05	22.00	CIU	0.190	0.0	25.1	0.51	22.9					
09-206B	S-4	OST	754.56	17.5	-	20.0	737.1	-	734.6	CL	43	20	23	2.78						112.7		0.143	0.020	0.54	3.05	24.20	CIU	0.210	0.0	48.1	1.02	26.7					
09-206B	S-5	OST	754.56	20.0	-	22.5	734.6	-	732.1																												
09-207B	S-1	OST	747.33	8.0	-	10.5	739.3	-	736.8	ML					0	4.4	79.8	15.8																			
09-207B	S-2	OST	747.33	10.5	-	13.0	736.8	-	734.3	ML					0.1	8.5	71.4	20.0																			
09-207B	S-3	OST	747.33	13.0	-	15.5	734.3	-	731.8																												
09-207B	S-4	OST	747.33	15.5	-	18.0	731.8	-	729.3	CL	27	19	8	2.72						102.62		0.168	0.023	0.65	3.25	21.40	CIU	1.120	0.0	34.4	1.78	26.0					
09-207B	S-5	OST	747.33	18.0	-	20.5	729.3	-	726.8					2.72						106.18	18.87	0.163	0.027	0.60	4.55	18.70	CIU	0.230	0.0	36.8	2.33	24.8					
09-207B	S-6	OST	747.33	20.5		23.0	726.8	-	724.3	CL	30	19	11	2.73						103.33		0.186	0.020	0.65	4.25												
09-207B	S-7	OST	747.33	23.0	-	25.5	724.3	-	721.8	CL	24	16	8	2.73						112.13		0.120	0.023	0.52	3.80												
09-209B	S-2	OST	746.58	10.0		11.0	736.6	-	735.6	CL	27	19	8	2.70						106.03		0.153	0.020	0.59	2.50								104.11	21.59	12.001	0	33.1
09-209B	S-3	OST	746.58	13.0		13.5	733.6	-	733.1	CL-ML	19	15	4	2.72						102.61		0.166	0.023	0.65	3.00												
09-210B	S-1	OST	749.63	7.5		10.0	742.1	-	739.6										13.0																		
09-210B	S-2	OST	749.63	10.0		12.5	739.6	-	737.1										89.6																		
09-210B	S-3	OST	749.63	12.5		15.0	737.1	-	734.6	CL-ML	19	15	4	2.72						108.27		0.136	0.023	0.57	3.25	21.90	CIU	0.380	0.0	43.0	0.70	20.0	105.62	20.80	12.003	0	33.6
09-210B	S-3	OST	749.63	12.5		15.0	737.1	-	734.6																	20.50	CIU	0.160	0.0	35.7	1.12	18.3					
09-210B	S-4	OST	749.63	20.0		22.5	729.6	-	727.1																												
09-210B	S-5	OST	749.63	26.0		28.5	723.6	-	721.1																												
09-211B	S-3	OST	765.38	25.0		27.5	740.4	-	737.9										13.7																		
09-211B	S-4	OST	765.38	28.0		30.0	737.4	-	735.4	CL-ML	23	18	5	2.70						103.92		0.156	0.023	0.62	2.30												
09-211B	S-5	OST	765.38	30.5		33.0	734.9	-	732.4	CL	28	19	9	2.72					58.1	102.94	19.39	0.186	0.023	0.65	2.90												

TABLE 1.4_T1 SUMMARY OF LABORATORY TESTING

Boring No.	Sample No.	Sample Type	Surface Elevation ft.	Tube Depth ft.		ft.	Tube Elevation ft.		ft.	USCS (computed)	Atterbergs LL	PL	PI	G_S	ASTM D422 Grain Size Analysis % Gravel	% Sand	% Silt	% Clay	ASTM D1140 P200	Consolidation Density (γd_0)	W/C_0	C_c	C_{cr}	e_0	P_c (tsf)	Triaxial W/C	Test	$s_{3'}$ (tsf)	c' (tsf)	ϕ'	s_u (tsf)	ε_1 at Peak	Direct Shear Density (γd_0)	W/C_0	s_n (tsf)	c' (tsf)	ϕ'
09-301B	S-1	OST	816.30	25.0		27.5	791.3	-	788.8										96.9																			
09-301B	S-2	OST	816.30	35.0		37.5	781.3	-	778.8										98.8																			
09-301B	S-3	OST	816.30	40.0		42.5	776.3	-	773.8										99.3																			
09-301B	S-4	OST	816.30	70.0		72.5	746.3	-	743.8										99.0																			
09-301B	S-5	OST	816.30	85.0		87.5	731.3	-	728.8										98.6																			
09-301B	S-6	OST	816.30	87.5		90.0	728.8	-	726.3										85.7																			
09-301B	S-7	OST	816.30	90.0		92.0	726.3	-	724.3	CL	26	18	8	2.67						106.11		0.183	0.023	0.57	3.25	18.57	CIU	1.080	0.0	30.1	1.26	26.3						
09-301B	S-7	OST	816.30	90.0		92.5	726.3	-	723.8										70.2							18.50												
09-301B	S-8	OST	816.30	92.5		94.5	723.8	-	721.8	CL-ML	22	17	5	2.67						112.85	18.38	0.128	0.023	0.48	3.50	21.90	CIU	1.120	0.0	29.6	1.09	24.3						
09-301B	S-8	OST	816.30	92.5		95.0	723.8	-	721.3										69.7																			
09-301B	S-8A	OST	816.30	94.5		95.0	721.8	-	721.3																													
09-303B	S-1	OST	817.42	20.0	-	22.5	797.4	-	794.9																													
09-303B	S-2	OST	817.42	30.0	-	32.5	787.4	-	784.9																													
09-303B	S-3	OST	817.42	42.5	-	45.0	774.9	-	772.4																													
09-303B	S-4	OST	817.42	70.0	-	72.5	747.4	-	744.9																													
09-303B	S-5	OST	817.42	75.0	-	77.5	742.4	-	739.9																													
09-303B	S-6	OST	817.42	80.0	-	82.5	737.4	-	734.9																													
09-303B	S-7	OST	817.42	82.5	-	85.0	734.9	-	732.4	ML	22	24	NP	2.61	0	1.7	73.9	24.4																				
09-303B	S-8	OST	817.42	85.0	-	87.5	732.4	-	729.9																													
09-303B	S-9	OST	817.42	87.5	-	90.0	729.9	-	727.4																													
09-303B	S-10	OST	817.42	90.0	-	92.5	727.4	-	724.9	CL	31	20	11	2.70	0	25.6	42.0	32.4		104.78	20.47	0.134	0.013	0.61	3.10	21.30	CIU	1.090	0.0	35.0	1.76	0.9						
09-303B	S-10	OST	817.42	90.0	-	92.5	727.4	-	724.9					2.73						104.78	20.47	0.134	0.013	0.63	3.30	19.22	UU		0.1	31.7	0.58							
09-303B	S-11	OST	817.42	92.5	-	95.0	724.9	-	722.4	CL	32	18	14	2.70						106.2	19.39	0.136	0.020	0.59	3.70	21.70	CIU	1.120	0.0	34.8	3.60	26.9						
09-303B	S-12	OST	817.42	95.0	-	97.5	722.4	-	719.9	ML	20	18	2	2.69						108.7	18.75	0.128	0.009	0.54	4.25	19.70	CIU	1.140	0.0	37.3	2.38	22.1						
09-303B	S-13	OST	817.42	97.5	-	100.0	719.9	-	717.4																													
09-402B	S-3	OST	764.91	21.0		23.0	743.9	-	741.9					2.71																								
09-402B	S-4	OST	764.91	36.0		38.5	728.9	-	726.4	CL	38	17	21	2.71						98.314	27.83	0.210	0.025	0.72	2.00													
09-402B	S-5	OST	764.91	38.5		41.0	726.4	-	723.9	CL	38	18	20	2.70						96.139	30.50	0.268	0.040	0.76	2.00	26.60	CIU	0.880	0.0	34.6	0.46	4.8						
09-402B	S-6	OST	764.91	41.0		43.5	723.9	-	721.4	CL-ML	22	18	4	2.70						108.03	20.30	0.160	0.016	0.56	2.60	20.80	CIU	1.000	0.0	36.3	1.14	18.3						
09-402B	S-7	OST	764.91	43.5		46.0	721.4	-	718.9	SM	18	17	1	2.70						109.26	21.18	0.120	0.020	0.55	3.30	20.30	CIU	1.060	0.0	31.5	0.36	6.7						
09-402B	S-8	OST	764.91	46.0		48.5	718.9	-	716.4	SM	10	15	NP	2.69						108.5	21.18	0.105	0.013	0.55	3.15	20.58	CIU	1.116	0.0	34.6	0.69							
09-402B	S-9	OST	764.91	48.5		51.0	716.4	-	713.9	SM	17	17	NP							102.25	23.77	0.094	0.012	0.65	4.00	22.00	CIU	0.590	0.0	35.8	0.98	11.6						
09-404B	S-1	OST	763.56	33.0		35.5	730.6	-	728.1										28.0																			
09-404B	S-3	OST	763.56	38.0		40.5	725.6	-	723.1	CL-ML	24	18	6	2.70						102.64	22.59	0.196	0.020	0.64	3.05	20.60	CIU	0.470	0.0	35.8	1.27	17.9						
09-404B	S-4	OST	763.56	40.5		43.0	723.1	-	720.6	CL	27	18	9	2.70						93.736	25.27	0.219	0.027	0.80	2.45	22.60	CIU	0.500	0.0	32.9	0.77	16.2						
09-404B	S-5	OST	763.56	43.0		45.0	720.6	-	718.6	CL-ML	21	17	4	2.67						110.38		0.123	0.020	0.51	3.00	20.60	CIU	0.530	0.0	34.9	1.43	16.0						
09-404B	S-6	OST	763.56	45.5		48.0	718.1	-	715.6																													
09-404B	S-7	OST	763.56	48.0		50.0	715.6	-	713.6																													
09-404B	S-7A	OST	763.56	50.0		50.5	713.6	-	713.1																													
09-408B	1	OST	764.15	15.0		17.5	749.2	-	746.7										94.5																			
09-408B	3	OST	764.15	20.0		22.0	744.2	-	742.2										93.0																			
09-408B	5	OST	764.15	30.0		32.5	734.2	-	731.7										51.8																			
09-408B	8	OST	764.15	38.0		40.5	726.2	-	723.7	ML	19	16	3	2.72						103.8	22.33	0.152	0.020	0.64	2.50													
09-408B	8-TOP	OST	764.15	38.0		40.5	726.2	-	723.7										81.6																			
09-408B	S-9	OST	764.15	40.5		43.0	723.7	-	721.2	CL-ML	19	15	4	2.65						105.52	21.81	0.130	0.023	0.57	2.90													
09-408B	10	OST	764.15	43.0		45.5	721.2	-	718.7	ML	16	15	1	2.70						112.68	18.76	0.136	0.020	0.49	3.65													
09-500B	S-1	OST	757.63	10.0		12.0	747.6	-	745.6																													
09-500B	S-2	OST	757.63	20.0		22.0	737.6	-	735.6																													
09-500B	S-2A	OST	757.63	22.0		22.5	735.6	-	735.1																													
09-500B	S-3	OST	757.63	24.0		26.5	733.6	-	731.1	ML																												
09-500B	S-4	OST	757.63	26.5		29.0	731.1	-	728.6																													
09-500B	S-5A	OST	757.63	29.0		31.5	728.6	-	726.1																													
09-500B	S-6	OST	757.63	31.5		33.5	726.1	-	724.1	CL	24	13	11	2.67						103.17	20.25	0.143	0.023	0.59	2.15	17.20	CIU	0.400	0.0	38.0	1.22	18.4						
09-500B	S-6A	OST	757.63	33.5		34.0	724.1	-	723.6																													
09-500B	S-7	OST	757.63	34.0		36.0	723.6	-	721.6	CL-ML	20	16	4	2.62						103.87	24.02	0.143	0.027	0.57	2.20	20.40	CIU	0.430	0.0	26.8	0.31	22.8						
09-500B	S-7A	OST	757.63	36.0		36.5	721.6	-	721.1																	18.80	CIU	0.430	0.0	26.6	0.31	23.2						

TABLE 1.4_T1 SUMMARY OF LABORATORY TESTING

			Surface Elevation	Tube Depth			Tube Elevation				Atterbergs				ASTM D422 Grain Size Analysis				ASTM D1140	Consolidation						Triaxial							Direct Shear				
Boring No.	Sample No.	Sample Type	ft.	ft.		ft.	ft.		ft.	USCS (computed)	LL	PL	PI	G_S	% Gravel	% Sand	% Silt	% Clay	P200	Density (γd_0)	W/C_0	C_c	C_{cr}	e_0	P_c (tsf)	W/C	Test	$s_{3'}$ (tsf)	c' (tsf)	ϕ'	s_u (tsf)	ε_1 at Peak	Density (γd_0)	W/C_0	s_n (tsf)	c' (tsf)	ϕ'
09-502B	1	OST	752.82	24.0		5.0	7.5		747.8										80.3																		
09-502B	2	OST	752.82	24.0		10.0	12.5		742.8										94.9																		
09-503B	S-3	OST	768.25	37.5		38.0	730.8	-	730.3	ML	24	27	NP	2.44						83.668	31.22	0.112	0.027	0.82	3.50												
09-503B	S-4	OST	768.25	40.0		40.5	728.3	-	727.8	CL	31	17	14	2.75						103.17	21.30	0.196	0.027	0.67	2.20												
09-600B	S-1	OST	776.66	32.0	-	34.5	744.7	-	742.2																												
09-600B	S-2	OST	776.66	44.0	-	46.5	732.7	-	730.2																												
09-600B	S-2	OST	776.66	44.0		46.5	732.7	-	730.2						2.735																						
09-600B	S-3	OST	776.66	46.5		49.0	730.2	-	727.7																												
09-600B	S-4	OST	776.66	49.0	-	51.5	727.7	-	725.2	CL-ML	22	17	5	2.63						94.024	28.10	0.189	0.023	0.74	2.80	21.00	CIU	0.600	0.0	28.8	1.00	24.5					
09-600B	S-4	OST	776.66	49.0		51.5	727.7	-	725.2																												
09-600B	S-5	OST	776.66	55.0		57.5	721.7	-	719.2																												
09-600B	S-6	OST	776.66	55.0	-	57.5	721.7	-	719.2																												
09-601	S-10	OST	773.44	55.0		57.5	718.4	-	715.9					2.31																							
09-601	S-16	OST	773.44	55.0		57.5	718.4	-	715.9					2.67																							
09-601	S31A	OST	773.44	55.0		57.5	718.4	-	715.9					2.68																							
09-601B	S-8	OST	775.05	55.0		57.5	720.1	-	717.6					2.30																							
09-602B	S-5	OST	781.42	67.0		67.5	714.4	-	713.9	ML	16	15	1	2.70						107.73	20.89	0.128	0.023	0.57	3.75												
09-603B	1-TIP	OST	780.56	25.0		27.5	755.6	-	753.1										94.2																		
09-603B	2-TIP	OST	780.56	30.0		32.5	750.6	-	748.1										92.8																		
09-603B	4-TOP	OST	780.56	45.0		45.7	735.6	-	734.9										95.1																		
09-603B	5-TOP	OST	780.56	49.0		51.5	731.6	-	729.1										78.7																		
09-604B	S-6	OST	782.36	63.5		65.5	718.9	-	716.9	CL	38	18	20	2.73						104.92	20.93	0.173	0.027	0.62	3.70												
09-604B	S-6A	OST	782.36	65.5		66.0	716.9	-	716.4	CL	38	18	20																								
09-604B	S-7	OST	782.36	66.0		68.0	716.4	-	714.4	CL	38	17	21	2.77						101.83	22.59	0.206	0.027	0.70	4.15												
09-604B	S-7A	OST	782.36	68.0		68.5	714.4	-	713.9	CL	38	17	21																								
09-604B	S-8	OST	782.36	68.5		71.0	713.9	-	711.4	CL	32	17	15	2.74						97.722	26.99	0.239	0.027	0.75	3.00												
09-604B	S-9	OST	782.36	71.0		73.0	711.4	-	709.4	CL	25	17	8	2.65						89.727	30.54	0.284	0.030	0.85	2.50	24.50	CIU	0.860	0.0	35.0	0.89	17.4					
09-605B	S-9	OST	781.64	52.0		54.0	729.6	-	727.6	CL	33	19	14	2.75						104.99	20.64	0.176	0.020	0.63	3.85								103.8	21.53	11.996	0	30.4
09-605B	S-9A	OST	781.64	54.0		54.5	727.6	-	727.1																												
09-605B	S-10	OST	781.64	54.5		57.0	727.1	-	724.6	CL	37	23	14	2.76								0.209	0.203	0.68	4.70												
09-605B	S-11	OST	781.64	57.0		59.0	724.6	-	722.6	CL-ML	22	15	7	2.75						106.49	19.79	0.176	0.020	0.61	3.05	20.20	CIU	0.710	0.0	33.5	1.64	29.8					
09-605B	S-11A	OST	781.64	59.0		59.5	722.6	-	722.1																												
09-800B	1	OST	762.62	14.0		16.5	748.6	-	746.1										98.1																		
09-800B	3	OST	762.62	19.0		21.5	743.6	-	741.1										61.8																		