

IA100 - Borrow Boring Laboratory testing Results

Iowa 100 Borrow Boring - Tom Watson Property					11/20/2013					Cedar Rapids, Linn County, Iowa															CH2M Hill				
Boring	Layer	Depth to Top of Sample	Sample Type	Sample #	Color	Unified Classification	AASHTO Classification	USDA Classification	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	LL	PL	PI	#10 (%)	#40 (%)	#200 (%)	In-Situ WC (%)	Dry Density (pcf)	Proctor Max. Density (pcf)	Proctor Optimum M.C. (%)	Carbon (%)	Compressive Strength (psi)	Total Stress Friction Angle	Total Stress Cohesion (psi)			
B-66		0-22	Bulk	Bulk	Dark yellowish brown	Sandy Lean Clay	A-4(2)	Loam	0	33.3	49.7	17	22.9	15.7	7.2	100	97	66.7	14.4		118	12.5							
B-66		22-50	Bulk	Bulk	Olive	Sandy Silty Clay	A-4(5)	Silt Loam	0	8.8	74.7	16.5	26.9	20.8	6.1	100	100	91.2	23.8		114.5	14							
B-69		0	SS	SS-1	Dark brown								37.1	21.5	15.6				18.7				4.4						
B-69		4	SS	SS-2	Dark yellowish brown														13.2										
B-69		14	SS	SS-4	Strong brown	Silty Clayey Sand with Gravel		Sandy Loam	21	56.2	16.8	6				79	46	22.8	9.6										
B-69		24	SS	SS-6	Very dark gray	Sandy Lean Clay	A-6(5)	Loam	2	43.7	34.3	20	28.7	12.8	15.9	96	84	54.3	11.4										
B-69		44	SS	SS-10	Very dark gray	Sandy Lean Clay	A-6(6)	Loam	1	41.7	34.8	22.5	29.4	13.8	15.6	99	86	57.3	12.9										
B-74		1-16	Bulk	Bulk	Very dark grayish brown	Sandy Lean Clay	A-6(5)	Loam	2	43.6	34.4	20	30.3	13.9	16.4	98	85	54.4	20.5		117	13.5							
B-74		16-50	Bulk	Bulk	Very dark gray	Sandy Lean Clay	A-6(8)	Loam	0	37.9	36.1	26	30.1	12	18.1	100	90	62.1	15.7		120.5	11.5							
B-75/79		0-8	Bulk	Bulk	Dark yellowish brown	Sandy Lean Clay	A-6(11)	Loam	0	24.1	49.4	26.5	34.3	18.3	16	100	93	75.9	15.3		112.5	14.5							
B-76		0-8	Bulk	Bulk	Strong brown														10.9										
B-77		7-12	Bulk	Bulk	Dark yellowish brown														17.7										
B-83		5-13	Bulk	Bulk	Light olive brown	Sandy Lean Clay	A-6(15)	Clay Loam	0	21.6	40.4	38	37.1	16.7	20.4	100	98	78.4	23.7		106	19							