

PROJECT: FRA-70-14.48			DRILLING FIRM / OPERATOR: DLZ / K. CONRAD			DRILL RIG: CME 75 TRUCK			STATION / OFFSET: 210+69 / 48.85' LT			EXPLOSION ID B-038-1-10										
TYPE: ROADWAY			SAMPLING FIRM / LOGGER: DLZ / M. EVENER			HAMMER: CME AUTOMATIC			ALIGNMENT: BL I-70 WB			PAGE 1 OF 2										
PID: 77370 BR ID:			DRILLING METHOD: 3.25" HSA			CALIBRATION DATE: 1/7/10			ELEVATION: 739.5 (MSL) EOB: 70.0 ft.													
START: 8/5/11 END: 8/5/11			SAMPLING METHOD: SPT			ENERGY RATIO (%): 79			COORD: 712114.710 N, 1830461.120 E													
MATERIAL DESCRIPTION AND NOTES			ELEV.	DEPTHS		SPT/RQD	N60	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				ODOT CLASS (GI)	HOLE SEALED	
			739.5								GR	CS	FS	SI	CL	LL	PL	PI	WC			
Topsoil - 7"			738.9																			
Hard brownish gray SANDY SILT (A-4a), some to "and" fine to coarse sand, little gravel; damp.																						
				1		22 7 9	21	67	SS-1	4.5+	-	-	-	-	-	-	-	-	11	A-4a (V)		
				2																		
				3																		
@ 3.5', becomes gray.				4		7 11 12	30	100	SS-2	4.5+	-	-	-	-	-	-	-	-	9	A-4a (V)		
				5																		
				6																		
				7		13 22 24	61	100	SS-3	4.5+	18	11	23	30	18	21	13	8	8	A-4a (3)		
				8																		
				9		10 23 22	59	0	SS-4	-	-	-	-	-	-	-	-	-	8	A-4a (V)		
				10																		
				11																		
				12		12 20 21	54	100	SS-5	4.5+	18	19	24	25	14	19	13	6	7	A-4a (1)		
			13																			
Dense to very dense gray GRAVEL WITH SAND (A-1-b), trace to little silt; moist.			726.0	W																		
				14		7 23 34	75	100	SS-6	-	-	-	-	-	-	-	-	9	A-1-b (V)			
				15																		
				16																		
				17		7 13 14	36	100	SS-7	-	31	23	36	- 10 -	NP	NP	NP	14	A-1-b (0)			
				18																		
Hard gray SANDY SILT (A-4a), some fine to coarse sand, trace gravel; damp.				721.0																		
					19		12 26 23	65	78	SS-8	4.5+	-	-	-	-	-	-	-	9	A-4a (V)		
					20																	
					21																	
					22		15 18 25	57	100	SS-9	4.5+	-	-	-	-	-	-	-	9	A-4a (V)		
					23																	
			24		16 31 34	86	100	SS-10	4.5+	9	12	20	37	22	22	14	8	8	A-4a (5)			
			25																			
Hard gray SILT (A-4b), little fine to coarse sand, trace gravel; damp.																						
					26		27 50/5"	-	100	SS-11	4.5+	-	-	-	-	-	-	-	9	A-4b (V)		
					27																	
					28																	
@ 26.0',33.5',38.5', poor recovery; possible cobble/boulder.																						
				29		25 34 34	90	100	SS-12	4.5+	8	14	19	36	23	22	14	8	8	A-4a (5)		
				30																		
				31																		
				32																		
				33																		
				34		40 50/5"	-	18	SS-13	4.5+	-	-	-	-	-	-	-	8	A-4a (V)			
				35																		
				36																		
			37																			
			38																			
@ 38.5', becomes grayish brown.																						
				39		50/5"	-	80	SS-14	4.5+	-	-	-	-	-	-	-	6	A-4a (V)			
				40																		
				41																		
				42																		
				43																		
Loose gray GRAVEL (A-1-a), little fine to coarse sand; wet. @ 43.5', 10.0 feet sand heave; washed out with tricone.				697.5	W																	
					44		0 0 4	5	11	SS-15	-	-	-	-	-	-	-	-	10	A-1-a (V)		
					45																	
					46																	
					47																	
					48																	
			49		33 35 25	79	100	SS-16	-	38	28	24	- 10 -	NP	NP	NP	9	A-1-b (0)				
			50																			
			51																			
			52																			
			53																			
			54		6 23 28	67	28	SS-17	-	-	-	-	-	-	-	-	12	A-1-b (V)				
			55																			
			56																			
			57																			
			58																			
			59		5 25 27	68	56	SS-18	-	41	40	10	- 9 -	NP	NP	NP	10	A-1-b (0)				
			60																			
Very dense gray GRAVEL WITH SAND (A-1-b), trace to little silt; wet.			692.5																			