

PROJECT: FRA-70-14.48		DRILLING FIRM / OPERATOR: DLZ / K. CONRAD		DRILL RIG: CME 75 TRUCK		STATION / OFFSET: 216+85 / 75.93' LT		EXPLORATION ID B-043-1-10												
TYPE: ROADWAY		SAMPLING FIRM / LOGGER: DLZ / M. EVENER		HAMMER: CME AUTOMATIC		ALIGNMENT: BL I-70 WB		PAGE												
PID: 77370 BR ID:		DRILLING METHOD: 3.25" HSA		CALIBRATION DATE: 1/7/10		ELEVATION: 762.5 (MSL) EOB: 75.0 ft.		1 OF 2												
START: 8/8/11 END: 8/8/11		SAMPLING METHOD: SPT		ENERGY RATIO (%): 79		COORD: 712218.660 N, 1831069.580 E														
MATERIAL DESCRIPTION AND NOTES		ELEV. 762.5	DEPTHS		SPT/RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				ODOT CLASS (GI)	HOLE SEALED
Asphalt - 11"		761.6																		
FILL: Medium dense gray GRAVEL WITH SAND (A-1-b), little fine to coarse sand, trace silt; damp. (ROAD BASE)		759.0			13 6 3	12	17	SS-1	-	-	-	-	-	-	-	-	-	2	A-1-b (V)	
Hard brown SANDY SILT (A-4a), some fine to coarse sand, trace to little gravel; damp.					6 5 6	14	0	SS-2	-	-	-	-	-	-	-	-	13	A-4a (V)		
@ 8.5'-10.0', contains occasional rust stains.					4 7 10	22	100	SS-3	4.5+	8	11	21	35	25	23	15	8	12	A-4a (5)	
@ 11.0', becomes gray.					5 10 11	28	100	SS-4	4.5+	-	-	-	-	-	-	-	11	A-4a (V)		
@ 18.5'-19.0', wet gravel seam.					5 7 8	20	100	SS-5	4.5+	-	-	-	-	-	-	-	10	A-4a (V)		
					4 7 8	20	100	SS-6	4.5+	9	11	21	36	23	22	14	8	10	A-4a (5)	
					12 15 16	41	100	SS-7	4.5+	-	-	-	-	-	-	-	9	A-4a (V)		
					22 29 23	68	17	SS-8	-	-	-	-	-	-	-	-	10	A-4a (V)		
					23 36 50/5"	-	6	SS-9	-	-	-	-	-	-	-	-	13	A-4a (V)		
					11 25 24	65	100	SS-10	4.5+	19	11	18	32	20	23	14	9	7	A-4a (3)	
Hard gray SANDY SILT (A-4a), some fine to coarse sand, trace to little gravel; damp.		737.5			14 23 27	66	100	SS-11	4.5+	-	-	-	-	-	-	-	8	A-4a (V)		
					19 35 50/5"	-	100	SS-12	4.5+	-	-	-	-	-	-	-	7	A-4a (V)		
					10 40 50/5"	-	100	SS-13	4.5+	12	12	19	31	26	23	14	9	8	A-4a (4)	
Very dense gray COARSE AND FINE SAND (A-3a), trace gravel; wet.		729.0			13 20 23	57	67	SS-14	-	-	-	-	-	-	-	-	17	A-3a (V)		
Hard gray SANDY SILT (A-4a), some fine to coarse sand, little gravel; damp.		726.5			9 16 28	58	100	SS-15	4.5+	-	-	-	-	-	-	-	8	A-4a (V)		
@ 46.0'-47.5', contains occasional sand seams.					22 33 37	92	100	SS-16	4.5+	-	-	-	-	-	-	-	8	A-4a (V)		
					35 41 46	115	100	SS-17	4.5+	13	11	21	33	22	23	13	10	8	A-4a (4)	
					26 36 43	104	100	SS-18	4.5+	-	-	-	-	-	-	-	8	A-4a (V)		
					20 31 38	91	100	SS-19	4.5+	-	-	-	-	-	-	-	8	A-4a (V)		
Very dense gray GRAVEL WITH SAND (A-1-b), some silt; wet.		714.0			33 49 50/5"	-	100	SS-20	-	32	29	17	-	22	-	NP	NP	NP	6	A-1-b (0)
Hard gray SANDY SILT (A-4a), some fine to coarse sand, little gravel; damp.		710.5																		
@ 50.0'-53.5', difficult augering; possible cobble/boulder.					13 28 31	78	100	SS-21	4.5+	-	-	-	-	-	-	-	9	A-4a (V)		
Dense to very dense gray COARSE AND FINE SAND (A-3a), little gravel, trace to little silt; wet.		705.5																		
					6 21 16	49	33	SS-22	-	12	27	45	-	16	-	NP	NP	NP	15	A-3a (0)