

CTY-RTE-SECTION

MODEL: Sheet PAPER SIZE: 17x11 (in.) DATE: 1/11/2023 TIME: 7:21:53 AM USER: aross3  
pw:\ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\01 Active Projects\District 10\Washington\115420\400-Engineering\Geotechnical\Sheets\115420\_ZL001.dgn

PROJECT: WAS-77-9.58 TYPE: CULVERT PID: 115420 SFN: 1988298 (P) START: 11/22/22 END: 11/28/22				DRILLING FIRM / OPERATOR: ODOT / CAREY SAMPLING FIRM / LOGGER: ODOT / SPROUSE DRILLING METHOD: 3.25" HSA SAMPLING METHOD: SPT				STATION / OFFSET: 506+25, 58' RT. ALIGNMENT: CL IR 77 ELEVATION: 937.6 (ft) EOB: 97.5 ft. LAT / LONG: 39.533076, -81.444866				EXPLORATION ID B-001-0-22													
MATERIAL DESCRIPTION AND NOTES								ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC SAMPLE (%)	HP (tsf)	GR	GRADATION (%)	ATTEMBERG	WC	ODOT CLASS (GI)	BACK FILL						
ASPHALT (3"), CONCRETE (9"), ASPHALT (3.5") & CONCRETE (7.5")								937.6		1															
VERY STIFF, REDDISH BROWN AND GRAY, SILT AND CLAY, SOME SAND, LITTLE STONE FRAGMENTS, DAMP								935.7		5	8	75	SS-1	3.25	13	6	15	37	29	33	21	12	14	A-6a (7)	
VERY STIFF, RED AND GRAY, SANDY SILT, "AND" STONE FRAGMENTS, LITTLE CLAY, DAMP								934.1		5	5	6	61	SS-2	2.50	-	-	-	-	-	-	-	10	A-4a (V)	
@6.0'; STIFF																									
VERY STIFF, REDDISH BROWN AND BROWN, SILT AND CLAY, LITTLE SAND, TRACE STONE FRAGMENTS, DAMP								926.6																	
VERY STIFF, REDDISH BROWN AND GRAY, SANDY SILT, "AND" STONE FRAGMENTS, LITTLE CLAY, DAMP								924.1																	
VERY STIFF, RED SILT AND CLAY, "AND" STONE FRAGMENTS, TRACE SAND, DAMP								911.6																	
@28.5'; HARD																									
@31.0'; VERY STIFF																									
VERY STIFF, REDDISH BROWN AND GRAY, SANDY SILT, "AND" STONE FRAGMENTS, LITTLE CLAY, DAMP								901.6																	
DENSE, RED, STONE FRAGMENTS WITH SAND, SILT, AND CLAY, WET								896.6																	
@43.5'; MEDIUM DENSE, MOIST																									
@46.0'; DENSE																									
VERY DENSE, GRAY, STONE FRAGMENTS, LITTLE SAND, TRACE SILT, TRACE CLAY, (NOT ENOUGH MATERIAL TO TEST), DRY								889.1																	
MEDIUM DENSE, RED AND GRAY, STONE FRAGMENTS WITH SAND AND SILT, LITTLE CLAY, DAMP								886.6																	
HARD, RED AND BROWN, SILT AND CLAY, "AND" STONE FRAGMENTS, TRACE SAND, DAMP								881.6																	

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 1/10/23 15:31 - X:\GINT\PROJECTS\601019.GPJ

CTY-RTE-SECTION

MODEL: Sheet PAPER: 17x11 (in.) DATE: 1/11/2023 TIME: 7:22:24 AM USER: aross3  
pw:\ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\01 Active Projects\District 10\Washington\115420\400-Engineering\Geotechnical\Sheets\115420\_ZL002.dgn

PID:	115420	SFN:	1988298 (P)	PROJECT:	WAS-77-9.58	STATION / OFFSET:	506+25, 58' RT.	START:	11/22/22	END:	11/28/22	PG 2 OF 2	B-001-0-22										
MATERIAL DESCRIPTION AND NOTES						ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC SAMPLE ID (%)	HP (tsf)	GRADATION (%)				ATTERBERG			WC	ODOT CLASS (gl)	BACK FILL		
HARD, RED AND BROWN, SILT AND CLAY, "AND" STONE FRAGMENTS, TRACE SAND, DAMP (continued) @61.0'; VERY STIFF						877.6	61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97	6 11 15	38	61	3.25	-	-	-	-	-	-	-	13	A-6a (V)			
@63.5'; HARD						869.1		6 18 16	49	61	4.50	-	-	-	-	-	-	11	A-6a (V)				
VERY DENSE, RED AND BROWN, STONE FRAGMENTS WITH SAND, SILT, AND CLAY, DAMP								5 14 35	71	39	SS-28	-	-	-	-	-	-	9	A-2-6 (V)				
@71.0'; RED						864.1		18 23 24	68	50	SS-29	-	64	1	4	19	12	32	21	11	8	A-2-6 (0)	
VERY STIFF, RED AND BROWN, SILT AND CLAY, "AND" STONE FRAGMENTS, TRACE SAND, DAMP						864.1		4 10 14	35	44	SS-30	4.25	-	-	-	-	-	-	12	A-6a (V)			
HARD, BROWN AND GRAY, SANDY SILT, SOME STONE FRAGMENTS, LITTLE CLAY, DAMP						859.1		2 13 20	48	39	SS-32	4.50	-	-	-	-	-	-	12	A-4a (V)			
@81.0'; VERY STIFF						854.1		8 11 13	35	56	SS-33	3.25	28	2	24	28	18	27	19	8	14	A-4a (2)	
VERY STIFF, REDDISH BROWN AND BROWN, SILT AND CLAY, "AND" STONE FRAGEMENTS, LITTLE SAND, DAMP						854.1		3 11 15	38	44	SS-34	2.75	39	2	9	27	23	32	20	12	18	A-6a (4)	
@86.0'; HARD								7 17 28	65	67	SS-35	4.50	-	-	-	-	-	-	17	A-6a (V)			
@91.0'; VERY STIFF, SOME STONE FRAGMENTS, TRACE ROOTS								9 17 21	55	78	SS-36	4.50	-	-	-	-	-	-	19	A-6a (V)			
@93.5'; HARD, RED AND GRAY								8 14 26	58	72	SS-37	3.00	28	1	15	32	24	30	19	11	19	A-6a (5)	
@96.0'; RED AND BROWN						840.1	FOR	10 12 25	53	44	SS-38	4.5+	-	-	-	-	-	-	17	A-6a (V)			
@96.0'; RED AND BROWN						840.1	FOR	11 17 25	61	44	SS-39	4.5+	-	-	-	-	-	-	15	A-6a (V)			

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 1/10/23 15:31 - X:\GINT\PROJECTS\601019.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM DISTRICT SURVEY TIN.  
ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 100 LB. BENTONITE CHIPS

DESIGN AGENCY

DESIGNER

ARR

REVIEWER

PPP 01/11/23

PROJECT ID

115420

SUBSET

2

TOTAL

8

SHEET

P.7

TOTAL

13

CULVERT AT WAS-77-9.58 OVER UNNAMED TRIBUTARY OF BEAR CREEK  
BORING LOG B-001-0-22 (CONT.)

CTY-RTE-SECTION

MODEL: Sheet PAPER: 17x11 (in.) DATE: 1/11/2023 TIME: 7:23:05 AM USER: aross3  
pw:\ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\01 Active Projects\District 10\Washington\115420\400-Engineering\Geotechnical\Sheets\115420\_ZL003.dgn

PROJECT: WAS-77-9.58 TYPE: CULVERT PID: 115420 SFN: 1988298 (P) START: 12/6/22 END: 12/7/22				DRILLING FIRM / OPERATOR: ODOT / MCINTOSH SAMPLING FIRM / LOGGER: ODOT / LEWIS DRILLING METHOD: 3.75" HSA / NQ2 SAMPLING METHOD: SPT / NQ2				STATION / OFFSET: 505+95, 1' L.T. ALIGNMENT: CL IR 77 ELEVATION: 932.4 (ft) EOB: 85.0 ft. LAT / LONG: 39.532929, -81.445005										EXPLORATION ID B-002-0-22 PAGE 1 OF 2			
MATERIAL DESCRIPTION AND NOTES				ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GR	GRADATION (%)						WC	ODOT CLASS (gl)	HOLE SEALED	
TOPSOIL (5') VERY STIFF, REDDISH BROWN AND GRAY, SILT AND CLAY, SOME STONE FRAGMENTS, LITTLE SAND, DAMP  @3.5'; STIFF				932.4	1																
				932.0	2	5	6	18	72	SS-1	2.50	33	6	8	30	23	33	21	12	A-6a (4)	
					3																
					4	3	5	15	61	SS-2	2.00	-	-	-	-	-	-	-	-	16	A-6a (V)
					5																
					6																
					7																
					8																
					9	5	4	12	78	SS-3	2.00	42	2	13	25	18	26	16	10	A-4a (2)	
					10																
STIFF, REDDISH BROWN AND GRAY, SANDY SILT, "AND" STONE FRAGMENTS, LITTLE CLAY, DAMP				923.9	11																
					12																
					13																
					14	4	4	14	50	SS-4	2.00	-	-	-	-	-	-	-	14	A-4a (V)	
					15																
					16																
					17																
					18																
					19	3	3	11	67	SS-5	2.00	-	-	-	-	-	-	-	21	A-4a (V)	
				VERY STIFF, REDDISH BROWN AND GRAY, SILTY CLAY, SOME STONE FRAGMENTS, LITTLE SAND, DAMP				908.9	20												
21																					
22																					
23																					
24	5	7	33						83	SS-6	3.50	35	2	8	28	27	34	18	16	A-6b (6)	
25																					
26																					
27																					
28																					
HARD, RED AND GRAY, SILT AND CLAY, "AND" STONE FRAGMENTS, TRACE SAND, DAMP								893.9	29	8	5	18	50	SS-7	3.00	-	-	-	-	-	10
				30																	
				31																	
				32																	
				33																	
				34	4	7	23		78	SS-8	3.00	-	-	-	-	-	-	-	12	A-6b (V)	
				35																	
				36																	
				37																	
				@43.5'; VERY STIFF					38												
39	7	14	41						89	SS-9	4.00	46	1	2	26	25	34	19	15	A-6a (5)	
40																					
41																					
42																					
43																					
44	7	9	30						83	SS-10	3.50	-	-	-	-	-	-	-	14	A-6a (V)	
45																					
46																					
@58.5'; BROWN AND RED, SOME STONE FRAGMENTS, LITTLE SAND									47												
				48																	
				49	10	11	33		78	SS-11	3.00	-	-	-	-	-	-	-	13	A-6a (V)	
				50																	
				51																	
				52	10	12	41		72	SS-12	3.50	-	-	-	-	-	-	-	12	A-6a (V)	
				53																	
				54	6	6	24		89	SS-13	3.00	47	2	8	27	16	31	18	13	A-6a (2)	
				55																	
				56																	
@58.5'; BROWN AND RED, SOME STONE FRAGMENTS, LITTLE SAND					57	13	15	45	78	SS-14	3.50	-	-	-	-	-	15	A-6a (V)			
					58																
					59	6	11	35	83	SS-15	3.50	25	3	14	34	24	31	18	13	A-6a (6)	
					60																

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 1/10/23 15:31 - X:\GINT\PROJECTS\601019.GPJ

DESIGN AGENCY

DESIGNER

ARR

REVIEWER

PPP 01/11/23

PROJECT ID

115420

SUBSET

3

TOTAL

8

SHEET

P.8

TOTAL

13

CULVERT AT WAS-77-9.58 OVER UNNAMED TRIBUTARY OF BEAR CREEK  
BORING LOG B-002-0-22

CTY-RTE-SECTION

MODEL: Sheet PAPER: 17x11 (in.) DATE: 1/11/2023 TIME: 7:23:34 AM USER: aross3  
pw:\ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\01 Active Projects\District 10\Washington\115420\400-Engineering\Geotechnical\Sheets\115420\_ZL004.dgn

PID: 115420	SFN: 1988298 (P)	PROJECT: WAS-77-9.58	STATION / OFFSET:	505+95, 1' LT.	START: 12/6/22			END: 12/7/22			PG 2 OF 2			B-002-0-22						
MATERIAL DESCRIPTION AND NOTES			ELEV. 872.4	DEPTHS	SPT/ RQD	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)			ATTERBERG			WC	ODOT CLASS (gl)	HOLE SEALED			
									GR	CS	FS	SI	CL	LL				PL		
HARD, RED AND GRAY, SILT AND CLAY, "AND" STONE FRAGMENTS, TRACE SAND, DAMP (continued) @61.0'; RED AND BROWN				61																
				62	14	80	89	SS-16	4.50	47	4	7	27	15	33	20	13	12	A-6a (2)	
				63	24															
				64	29															
				65																
				66	0		78	NQ2-1												CORE
				67																
				68																
				69	8	32	67	SS-17	2.50	-	-	-	-	-	-	-	-	-	14	A-6a (V)
				70	11															
@68.5'; VERY STIFF				71																
				72	18	63	89	SS-18	3.00	37	2	5	31	25	35	20	15	17	A-6a (6)	
				73	17															
				74	25															
				75																
				76	13	57	89	SS-19	3.50	-	-	-	-	-	-	-	-	16	A-6a (V)	
				77	15															
				78	23															
				79	18	72	83	SS-20	3.50	-	-	-	-	-	-	-	-	21	A-6a (V)	
				80	22															
VERY STIFF, RED AND BROWN, SILTY CLAY, SOME STONE FRAGMENTS, TRACE SAND, DAMP				81																
				82	11	44	89	SS-21	3.50	26	1	8	30	35	37	20	17	18	A-6b (9)	
				83	12															
				84	17															
				85	22	69	72	SS-22	3.50	-	-	-	-	-	-	-	-	16	A-6b (V)	
				86	24															
				87																
				88																
				89																
				90																
@83.5'; MOIST				91																
				92	10	45	89	SS-23	3.00	-	-	-	-	-	-	-	21	A-6b (V)		
				93	12															
				94	18															

CTY-RTE-SECTION

MODEL: Sheet PAPER: 17x11 (in.) DATE: 1/11/2023 TIME: 7:23:59 AM USER: aross3  
pw:\ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\01 Active Projects\District 10\Washington\115420\400-Engineering\Geotechnical\Sheets\115420\_ZL005.dgn

PROJECT: WAS-77-9.58			DRILLING FIRM / OPERATOR: ODOT / CAREY			DRILL RIG: CME 55 TRUCK			STATION / OFFSET: 505+66.59' LT.			EXPLORATION ID: B-003-0-22									
TYPE: CULVERT			SAMPLING FIRM / LOGGER: ODOT / SPROUSE			HAMMER: CME AUTOMATIC			ALIGNMENT: CL IR 77			PAGE									
PID: 115420 SFN: 1988298 (P)			DRILLING METHOD: 3.25" HSA			CALIBRATION DATE: 4/18/22			ELEVATION: 932.4 (ft) EOB: 85.0 ft.			1 OF 2									
START: 11/29/22 END: 12/1/22			SAMPLING METHOD: SPT			ENERGY RATIO (%): 87			LAT / LONG: 39.532788, -81.445142												
MATERIAL DESCRIPTION AND NOTES			ELEV.		DEPTHS		SPT/ RQD		REC SAMPLE		GRADATION (%)		ATTERBERG		ODOT CLASS (GI)		BACK FILL				
							N <sub>60</sub>	(%)	ID	(tsf)	GR	CS	FS	SI	CL	LL	PL	PI	WC		
CONCRETE (8.25"), ASPHALT (2.5") & CONCRETE (8.25")			932.4		1																
			930.8		2	6	26	33	3.25	32	4	4	32	28	31	20	11	12	A-6a (5)		
					3																
					4	8	26	39	4.50	-	-	-	-	-	-	-	-	-	8	A-6a (V)	
					5																
					6																
					7	6	22	36	4.50	-	-	-	-	-	-	-	-	-	10	A-6a (V)	
					8																
					9	5	6	14	44	2.25	-	-	-	-	-	-	-	-	9	A-6a (V)	
					10	4															
					11																
12	3	6	22	50	4.25	55	2	4	21	18	32	20	12	10	A-6a (1)						
13																					
@6.0"; RED					14	5	4	32	44	3.00	-	-	-	-	-	-	7	A-6a (V)			
					15	18															
					16																
					17	8	7	20	50	3.25	-	-	-	-	-	-	-	-	10	A-6a (V)	
					18	7															
					19	4	9	25	56	2.50	-	-	-	-	-	-	-	-	11	A-6a (V)	
					20	8															
					21																
					22	4	10	33	61	2.25	51	2	3	24	20	31	20	11	13	A-6a (2)	
					23	13															
					24	5	9	29	61	3.50	-	-	-	-	-	-	-	-	12	A-6a (V)	
					25	11															
@26.0"; HARD					26	7	14	45	56	4.5+	-	-	-	-	-	-	11	A-6a (V)			
					27	17															
					28																
					29	7	12	36	42	SS-12	4.5+	-	-	-	-	-	-	-	9	A-6a (V)	
					30	13															
					31																
					32	11	11	35	44	SS-13	4.5+	54	2	2	20	22	32	20	12	11	A-6a (2)
					33	13															
					34	7	11	32	39	SS-14	-	52	2	26	14	6	NP	NP	NP	10	A-1-b (0)
					35	11															
					36																
					37	9	13	36	67	SS-15	3.00	53	6	5	23	13	29	20	9	10	A-4a (0)
38	12																				
@41.0"; HARD					39	1	7	26	44	SS-16	2.75	3	2	9	35	51	40	22	18	17	A-6b (11)
					40	11															
					41																
					42	18	15	42	56	SS-17	4.5+	-	-	-	-	-	-	-	-	10	A-6b (V)
					43	14															
					44	5	10	35	50	SS-18	4.00	-	-	-	-	-	-	-	-	11	A-6b (V)
					45	14															
					46																
					47	13	15	43	53	SS-19	-	41	3	26	20	10	26	20	6	10	A-2-4 (0)
					48	15															
					49	4	9	33	33	SS-20	4.50	-	-	-	-	-	-	-	-	9	A-6a (V)
					50	14															
@51.0"; VERY STIFF					51																
					52	9	9	30	39	SS-21	4.00	-	-	-	-	-	-	-	10	A-6a (V)	
					53	12															
					54																
					55	10	13	42	44	SS-22	3.75	-	-	-	-	-	-	-	-	8	A-6a (V)
					56	16															
					57																
					58	10	14	42	56	SS-23	3.75	51	2	4	25	18	32	20	12	13	A-6a (2)
					59	15															
					60	4	8	29	56	SS-24	2.75	24	3	11	36	26	32	21	11	15	A-6a (6)
					61	12															
					62																

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 1/10/23 15:31 - X:\GINT\PROJECTS\601019.GPJ



DESIGNER  
ARR

REVIEWER

PPP 01/11/23

PROJECT ID  
115420

SUBSET TOTAL  
5 8









SHEET TOTAL  
P.10 13

CULVERT AT WAS-77-9.58 OVER UNNAMED TRIBUTARY OF BEAR CREEK

BORING LOG B-003-0-22

CTY-RTE-SECTION

MODEL: Sheet PAPER: 17x11 (in.) DATE: 1/11/2023 TIME: 7:24:36 AM USER: aross3  
pw:\ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\01 Active Projects\District 10\Washington\115420\400-Engineering\Geotechnical\Sheets\115420\_ZL006.dgn

PID: 115420	SFN: 1988298 (P)	PROJECT: WAS-77-9.58	STATION / OFFSET: 505+66, 59' LT.		START: 11/29/22			END: 12/1/22			PG 2 OF 2		B-003-0-22						
MATERIAL DESCRIPTION AND NOTES			ELEV. 872.4	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)			ATTERBERG	WC	ODOT CLASS (gl)	BACK FILL			
HARD, RED, SILT AND CLAY, "AND" STONE FRAGMENTS, TRACE SAND, DAMP (continued)			61	10	46	67	SS-25	4.00	-	-	-	-	-	-	14	A-6a (V)			
			62	15	17														
			63																
HARD, RED AND BROWN, SANDY SILT, "AND" STONE FRAGMENTS, LITTLE CLAY, DAMP		868.9	64	4	12	40	SS-26	4.50	44	5	8	28	15	31	22	9	11	A-4a (2)	
			65																
			66	11	16	22	67	SS-27	4.00	-	-	-	-	-	-	-	11	A-4a (V)	
@68.5'; VERY STIFF			67																
			68																
			69	10	11	17	39	SS-28	3.50	-	-	-	-	-	-	-	12	A-4a (V)	
@71.0' - 71.5'; ENCOUNTERED BOULDERS/COBBLES			70																
			71	22	14	14	53	SS-29	2.50	-	-	-	-	-	-	-	10	A-4a (V)	
			72																
DENSE, RED AND GRAY, STONE FRAGMENTS WITH SAND, SILT, AND CLAY, DAMP		858.9	73																
			74	7	14	45	50	SS-30	-	-	-	-	-	-	-	14	A-2-6 (V)		
			75	17															
@78.5'; VERY DENSE			76	6	12	42	61	SS-31	-	72	1	3	14	10	34	22	12	A-2-6 (0)	
			77	17															
			78																
@83.5'; DENSE			79	9	15	51	64	SS-32	-	-	-	-	-	-	-	13	A-2-6 (V)		
			80	20															
			81	9	18	61	61	SS-33	-	-	-	-	-	-	-	-	14	A-2-6 (V)	
			82	24															
			83																
			84	7	14	48	50	SS-34	-	-	-	-	-	-	-	-	13	A-2-6 (V)	
			847.4	19															

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 1/10/23 15:31 - X:\GINT\PROJECTS\601019.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM DISTRICT SURVEY TIN.  
ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 100 LB. BENTONITE CHIPS

DESIGN AGENCY



DESIGNER

ARR

REVIEWER

PPP 01/11/23

PROJECT ID

115420

SUBSET

6

TOTAL

8

SHEET

P.11

TOTAL

13

CULVERT AT WAS-77-9.58 OVER UNNAMED TRIBUTARY OF BEAR CREEK  
BORING LOG B-003-0-22 (CONT.)

## CTY-RTE-SECTION

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 1/11/2023 TIME: 7:25:07 AM USER: aross3  
pw: \\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 10\W

PROJECT: WAS-77-9.58				DRILLING FIRM / OPERATOR: ODOT / MCINTOSH				DRILL RIG: CME 850R TRACKED				STATION / OFFSET: 504+56.216' L.T.				EXPLORATION ID B-004-0-22									
TYPE: CULVERT				SAMPLING FIRM / LOGGER: ODOT / LEWIS				HAMMER: CME AUTOMATIC				ALIGNMENT: CL IR 77													
PID: 115420 SFN: 1988298 (P)				DRILLING METHOD: 3.75" HSA				CALIBRATION DATE: 4/19/21				ELEVATION: 864.0 (ft) EOB: 30.0 ft.				PAGE 1 OF 1									
START: 12/8/22 END: 12/12/22				SAMPLING METHOD: SPT				ENERGY RATIO (%): 90*				LAT / LONG: 39.532353, -81.445497													
MATERIAL DESCRIPTION AND NOTES				ELEV.		DEPTHS		SPT/ RQD	N <sub>60</sub>	REC SAMPLE (%)	HP (tsf)	GR	CS	FS	SI	CL	LL	PL	PI	WC	ODOT CLASS (GI)	BACK FILL			
				864.0		1																			
				863.8		2		3	8	67	SS-1	2.00	30	2	7	28	33	37	19	18	21	A-6b (8)			
						3		1	8	44	SS-2	1.50	-	-	-	-	-	-	-	-	-	20	A-6b (V)		
						4		2	8	33	SS-3	1.00	-	-	-	-	-	-	-	-	-	24	A-6b (V)		
						5		2	8	61	SS-4	1.00	-	-	-	-	-	-	-	-	-	17	A-6b (V)		
						6		3	14	67	SS-5	2.00	13	3	9	36	39	36	18	18	17	A-6b (11)			
						7		2	12	72	SS-6	2.50	-	-	-	-	-	-	-	-	-	18	A-6b (V)		
						8		3	11	78	SS-7	2.00	-	-	-	-	-	-	-	-	-	18	A-6b (V)		
						9		4	14	61	SS-8	2.00	-	-	-	-	-	-	-	-	-	23	A-6b (V)		
						10		1	12	89	SS-9	1.50	11	1	6	33	49	43	20	23	25	A-7-6 (14)			
						11		3	15	22	SS-10	1.75	-	-	-	-	-	-	-	-	-	19	A-6a (V)		
						12		4	17	78	SS-11	2.00	20	2	8	34	36	39	24	15	21	A-6a (9)			
						13		5	24	89	SS-12	2.00	32	2	5	29	32	38	23	15	17	A-6a (7)			
						14		3	11	22	SS-13	1.00	-	-	-	-	-	-	-	-	-	24	A-6a (V)		
						15		4	18	100	SS-14	2.00	-	-	-	-	-	-	-	-	-	21	A-6a (V)		
						16		3	12	89	SS-15	1.50	22	1	6	36	35	34	21	13	22	A-6a (8)			
						17		2	18	94	SS-16	2.50	-	-	-	-	-	-	-	-	-	18	A-6a (V)		
						18		5	17	100	SS-17	2.00	-	-	-	-	-	-	-	-	-	19	A-6a (V)		
						19		3	32	56	SS-18	2.50	-	-	-	-	-	-	-	-	-	19	A-6a (V)		
						20		4	14	72	SS-19	2.50	30	2	9	29	30	34	21	13	18	A-6a (6)			
						21		18																	
						22		17																	
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The Ohio Department of Transportation  
Office of Geotechnical Engineering



<b>PROJECT:</b>	WAS-77-9.58	<b>DISTRICT No.:</b>	10	<b>PID No.</b>	115420	<b>Tech:</b>	PPP
Point Load Strength Calc*:		$I_s = P / (D_e^2)$		$D_e^2 = 4A/\pi$		$A = (WD')$	
				$F = (D_e/50)^{0.45}$		Strength = $I_s * K$	
						$K = 24$	

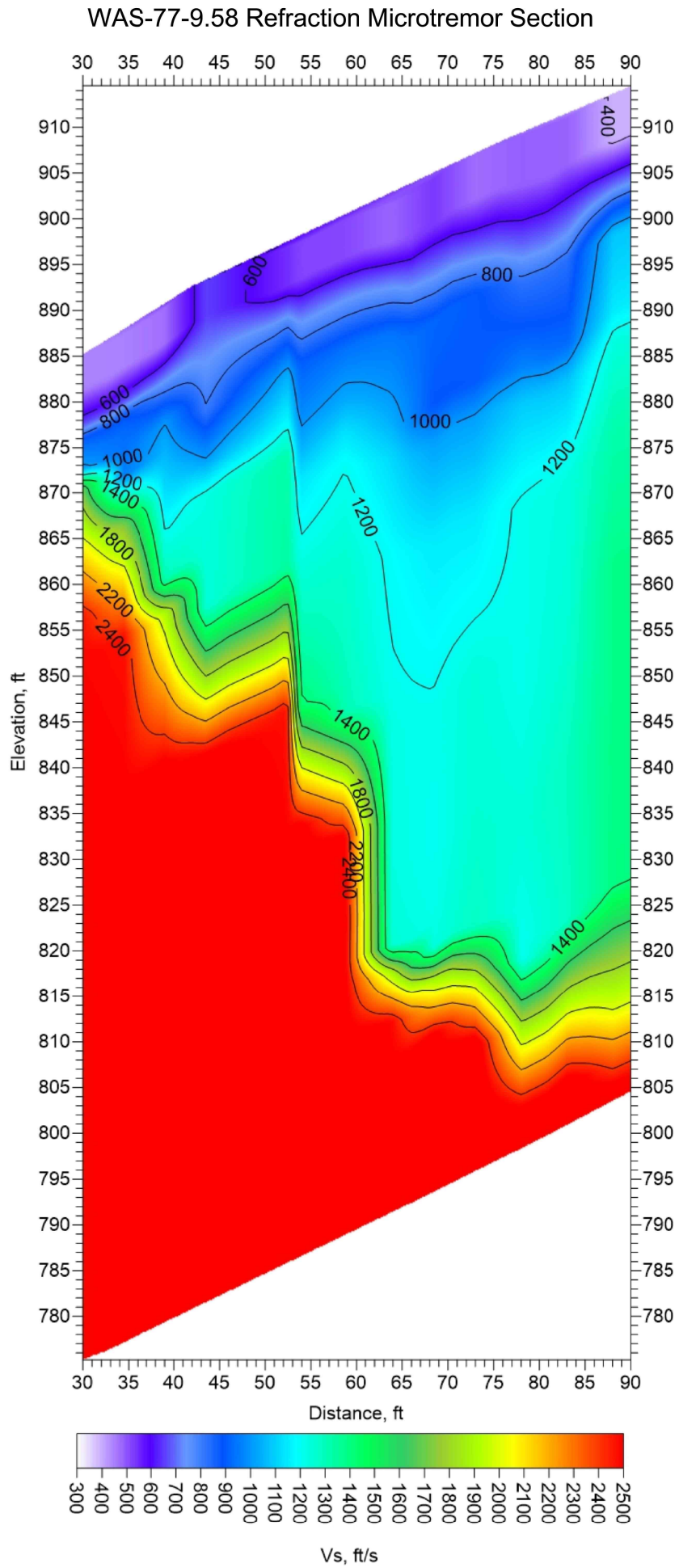
[illegible]

Comments: Point Load sample collected from exposed bedrock cut and prepared as Block samples.  
Highlighted Sc values excluded in Average Strength Sc calculation.

CULVERT AT WAS-77-9.58 OVER UNNAMED TRIBUTARY OF BEAR CREEK  
BORING LOG B-004-0-22 & POINT LOAD TEST RESULTS

DESIGN AGENCY	
	
DESIGNER	
ARR	
REVIEWER	
PPP 01/11/23	
PROJECT ID	
115420	
SUBSET	TOTAL
7	8
SHEET	TOTAL
P.12	13





WAS-77-9.58 Inverted Resistivity Section

