

MP-102 – Boxes 13 and 14



MP-102 – Box 15



MP-102 – Boxes 16 and 17



MP-102 – Boxes 18 and 19



MP-102 – Boxes 20 and 21



MP-102 – Boxes 22 and 23





GEOTECHNICAL BORING LOG

Prepared By: MBL Date: 3/5/14

Checked By: JCM Date: 3/5/14

SHEET 1 OF 1

BECHTEL NO.: 25847				AMEC PROJECT NO.: 6468-13-1072				COUNTY: Roane, TN				GEOLOGIST: J. Terry			
SITE DESCRIPTION: Clinch River SMR Project, Roane County, Tennessee								DRILLER: G. Akins/K. Amburn				Boring Orientation			
BORING NO.: MP-103				DRILL METHOD: Mud Rotary/Core				DRILL MACHINE: D-120 (MW-2)				Inclination: Vertical			
GROUND ELEV.: 800.6 ft (NAVD88)				NORTHING: 570,287 US ft (NAD83)				EASTING: 2,448,368 US ft (NAD83)				Azimuth: NA			
TOTAL DEPTH: 174.5 ft		SAMPLE METHODS: ASTM D 1586-11; 2488-09a; 2113-08; 6032-08						ROD TYPE: AWJ		HAMMER (ID): 140-lb Auto (R308)					
DATE STARTED: 8/18/13		COMPLETED: 8/21/13		HOLE DIA.: 4"		CASING DEPTH: 20.1 ft		CORE SIZE: HQ3		BITS USED: 4" Roller Cone					
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL DESCRIPTION AND REMARKS			
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100					
800.6					Ground Surface										
800.6	0.0	1	3	4	7						SS-1		FILL: GRAVELLY LEAN CLAY (CL), red (2.5YR 4/6) with gray (10YR 5/1) to reddish brown (5YR 4/3) with yellowish brown (10YR 5/6), medium stiff to stiff, moist, low to moderate plasticity fines, some fine to coarse angular gravel, few fine to coarse sand, trace organics, strong to weak HCl reaction (PP=1.25-3.0 tsf)	0.0	
798.1	2.5										SS-2				
795.6	5.0	4	5	6	11								FILL: FAT CLAY with Gravel (CH), reddish brown (2.5YR 5/4) to brown (10YR 5/3), medium stiff, moist, moderate plasticity fines, little fine to coarse angular gravel, trace to few fine to coarse sand, weak HCl reaction (PP=1.0 tsf)	4.5	
792.8	7.8	2	3	3	6						SS-3A SS-3B				7.0
790.3	10.3	3	2	1	3						SS-4		FILL: LEAN CLAY with Gravel (CL), grayish brown (10YR 5/2), soft, moist, low to moderate plasticity fines, little fine to coarse angular gravel, few medium to coarse sand, weak HCl reaction (PP=0.5 tsf)	9.5	
788.4	12.2	1	2	3	5						SS-5				12.0
785.5	15.1	6	20	45						65	SS-6		FILL: FAT CLAY with Gravel (CH), grayish brown (10YR 5/2), medium stiff, moist, moderate plasticity fines, little fine angular gravel, few to little medium to coarse sand, weak HCl reaction (PP=1.0 tsf)	14.5	
780.6	20.0	26	40	50						90	SS-7			RESIDUAL SOIL: CLAYEY SAND with Gravel (SC), pale brown (10YR 6/3), very dense, moist, fine to coarse angular sand, some fine to coarse angular gravel, little low to moderate plasticity fines, strong HCl reaction (PP=1.5 tsf)	17.0
		50/0.2											RESIDUAL SOIL: CLAYEY GRAVEL with Sand (GC), pale brown (10YR 6/3), very dense, moist to wet, fine to coarse angular gravel, little medium to coarse sand, little low to moderate plasticity fines, strong HCl reaction (PP=1.5 tsf)		
											SS-8			WEATHERED ROCK: LIMESTONE, sampled as WELL GRADED SAND with Gravel (SW), dark gray (10YR 4/1), very dense, wet, medium to coarse sand, little fine angular gravel, trace non-plastic fines, strong HCl reaction Soil drilling halted. Log continues on geotechnical coring log	20.2
Observed water levels: 6.9 ft bgs, AM 8/19/13 6.1 ft bgs, AM 8/20/13 22.6 ft bgs, AM 8/21/13															

CLINCH RIVER SMR BORE FINAL CLINCH FINAL LOGS.GPJ CLINCH BORING DATA TEMPLATE.GDT 3/5/14