



N.C.D.O.T. GEOTECHNICAL UNIT
BORING LOG

SHEET 1 OF 1

PROJECT NO. 8.2353001		ID. B-3450		COUNTY Durham		GEOLOGIST D. Goodnight							
SITE DESCRIPTION Bridge No. 122 Over Sandy Creek on SR 1116 (Garrett Road)						GROUND WATER (ft)							
BORING NO. B1-A		BORING LOCATION 22+08		OFFSET 19 ft LT		ALIGNMENT -L-							
COLLAR ELEV. 249.5 ft		NORTHING 803268.21		EASTING 2007734.78		0 HR. 2.5							
TOTAL DEPTH 51.0 ft		DRILL MACHINE Mobile B-57		DRILL METHOD 3-7/8" Tricone Wash/HQ Core		HAMMER TYPE 140 lb. Manual							
DATE STARTED 10/8/02		COMPLETED 10/8/02		SURFACE WATER DEPTH NA									
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
249.5													249.5 0.00
248.5	1.0	2	2	2									ALLUVIAL: Soft to Medium Stiff Tan Clayey Fine to Coarse Sandy SILT with Gravel and a Trace of Organic Matter (Rootlets and Wood)
245.0	4.5	WOH	WOH	1									Natural Moisture = 16.5%
243.5	6.0	8	4	3									
241.0	8.5	3	3	3									241.5 8.0
236.0	13.5	3	4	1									237.5 12.0
231.0	18.5	3	2	3									227.0 22.5
226.0	23.5	73	27/0.0										225.5 24.0
													220.5 29.0
													217.8 31.7
													213.0 36.5
													208.5 41.0
													205.0 44.5
													201.4 48.1
													199.6 49.9
													198.5 51.0

NCDOT BORE SINGLE 07102016.GPJ NC DOT.GDT 11/12/02



N.C.D.O.T. GEOTECHNICAL UNIT
CORE BORING REPORT

SHEET 1 OF 1

PROJECT NO. 8.2353001		ID. B-3450		COUNTY Durham		GEOLOGIST D. Goodnight				
SITE DESCRIPTION Bridge No. 122 Over Sandy Creek on SR 1116 (Garrett Road)						GROUND WATER (ft)				
BORING NO. B1-A		BORING LOCATION 22+08		OFFSET 19 ft LT		ALIGNMENT -L-				
COLLAR ELEV. 249.5 ft		NORTHING 803268.21		EASTING 2007734.78		0 HR. 2.5				
TOTAL DEPTH 51.0 ft		DRILL MACHINE Mobile B-57		DRILL METHOD 3-7/8" Tricone Wash/HQ Core		HAMMER TYPE 140 lb. Manual				
DATE STARTED 10/8/02		COMPLETED 10/8/02		SURFACE WATER DEPTH NA						
CORE SIZE HQ				TOTAL RUN 27.0 ft		DRILLER B. Shull				
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (%)	RQD (%)		REC. (%)	RQD (%)		
										Begin Coring @ 24.0 ft
225.5	24.0	2.0	4:06	(80%)	(0%)		(56%)	(0%)		225.5 Greenish Grey and Reddish Brown; Moderately Weathered; Soft to Medium Hard; Indurated Triassic Mudstone with Very Close to Close Fracture Spacing
223.5	26.0	5.0	7:21	(1.6)	(0.0)		(2.8)	(0.0)		223.5 Very broken 26.0 feet to 29.0 feet
			5:11	(64%)	(40%)					220.5 jts @ 0° to 10° with minor clay infilling
			8:43	(3.2)	(2.0)		(100%)	(100%)		220.5 Greenish Grey and Reddish Brown; Slightly Weathered; Moderately Hard; Indurated Triassic Mudstone with Moderately Close Fracture Spacing
218.5	31.0		7:45				(100%)	(2.7)		217.8 No natural breaks
			6:42	(100%)	(100%)		(100%)	(4.8)		217.8 Reddish Brown, Tan and Grey; Slightly to Very Slightly Weathered; Hard, Indurated; Micaceous; Fine to Coarse Grained; Triassic Sandstone with Moderately Close to Wide Fracture Spacing
			5:31	(5.0)	(5.0)	RS-1	(100%)	(4.8)		213.0 1 jt @ 0° with light iron staining
			3:54				(100%)	(71%)		213.0 Pink, Green, and Grey; Moderately to Slightly Weathered; Moderately Hard to Hard; Moderately Indurated to Indurated; Micaceous; Fine to Very Coarse Grained Triassic Sandstone with Close to Moderately Close Fracture Spacing
213.5	36.0		4:30				(100%)	(3.2)		213.0 1 jt @ 0° with light iron staining
			2:47	(100%)	(74%)		(100%)	(4.5)		213.0 Pink, Green, and Grey; Moderately to Slightly Weathered; Moderately Hard to Hard; Moderately Indurated to Indurated; Micaceous; Fine to Very Coarse Grained Triassic Sandstone with Close to Moderately Close Fracture Spacing and with Pebbles
			3:27	(5.0)	(3.7)		(100%)	(3.4)		208.5 1 jt @ 80° at 36.8 feet, jt thickness = <0.01 foot
			3:21				(75%)	(3.6)		208.5 1 jt @ 10° at 37.0 feet with clay, jt thickness = 0.01 foot
			1:35				(3.5)	(97%)		208.5 1 jt @ 80° from 38.5 feet to 39.5 feet, jt thickness = <0.01 foot
			2:11				(2.7)	(1.3)		205.0 3 jts @ 0° to 10° between 40.3 feet and 41.0 feet
			3:00				(100%)	(1.8)		205.0 Red and Grey to Tan; Slightly to Very Slightly Weathered; Hard; Indurated Triassic Mudstone with Moderately Close Fracture Spacing
			2:20	(88%)	(68%)		(100%)	(2.7)		205.0 Micaceous Fine to Very Coarse Grained Triassic Sandstone with Wide Fracture Spacing
			2:45	(4.4)	(3.4)		(100%)	(0.3)		205.0 Mudstone layer 43.4 feet to 43.7 feet
			2:22							205.0 1 jt @ 0° at 44.4 feet with light iron staining
			3:30							205.0 Brown and Greenish Grey; Moderately to Slightly Weathered; Soft to Medium Hard; Indurated Triassic Mudstone with Very Close to Close Fracture Spacing and with Iron Clasts
			4:45							205.0 Very broken 44.5 feet to 45.8 feet and 46.0 feet to 46.6 feet
			12:19	(94%)	(68%)		(100%)	(1.8)		205.0 1 jt @ 30° at 45.8 feet
			7:17	(4.7)	(3.4)		(100%)	(1.8)		205.0 1 jt @ 25° at 46.6 feet
			4:50							205.0 4 jts @ 0° to 10° from 46.8 feet to 48.1 feet
			4:53							205.0 Greenish Grey and Brown; Slightly Weathered; Hard; Indurated Triassic Mudstone with Moderately Close Fracture Spacing
			4:33							205.0 No natural breaks
			7:46							205.0 Greenish Grey and Reddish Brown; Moderately Weathered; Medium Hard; Indurated Triassic Mudstone with Very Close to Close Fracture Spacing
198.5	51.0									198.5 Coring Terminated at Elevation 198.5 feet in Non-Crystalline Rock (Moderately Weathered Triassic Mudstone)

NCDOT CORE SINGLE 07102016.GPJ NC DOT.GDT 11/12/02