

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

PAGE 1 OF 1

SITE DESCRIPTION Bridge No. 102 Over Lake Higgins/Brush Creek on SR 2124  BORING NO. B2-A BORING LOCATION 13+79 OFFSET 20ft LT ALIGNMENT -L-  COLLAR ELEV. 761.0 ft NORTHING 874703.28 EASTING 1734236.88  TOTAL DEPTH 62.9 ft DRILL MACHINE CME 45 SKID DRILL METHOD Wash Rotary/NQ Core  DATE STARTED 5/23/05 COMPLETED 5/24/05 SURFACE WATER DEPTH 4.0 ft	G.Licayan/P.Weaver GROUND WATER (ft) 0 HR. NA 24 HR. NA HAMMER TYPE 140 lb Manu
BORING NO.   B2-A   BORING LOCATION   13+79   OFFSET   20ft LT   ALIGNMENT   -L-	0 HR. NA 24 HR. NA HAMMER TYPE 140 lb Manu
BORING NO.   B2-A   BORING LOCATION   13+79   OFFSET   20ft LT   ALIGNMENT   -L-	24 HR. NA  NAMMER TYPE 140 lb Manu
COLLAR ELEV. 761.0 ft         NORTHING         874703.28         EASTING         1734236.88           TOTAL DEPTH         62.9 ft         DRILL MACHINE         CME 45 SKID         DRILL METHOD         Wash Rotary/NQ Core         H           DATE STARTED         5/23/05         COMPLETED         5/24/05         SURFACE WATER DEPTH         4.0 ft           ELEV.         DEPTH         BLOW COUNT         BLOWS PER FOOT         SAMP.         LOND MOIL         OND         SOIL AND FOR SOIL           (ft)         (ft)         0.5ft         0.5ft         0.5ft         0         20         40         60         80         100         NO.         MOIL         G         SOIL AND FOR SOIL	IAMMER TYPE 140 lb Manu
TOTAL DEPTH   62.9 ft   DRILL MACHINE CME 45 SKID   DRILL METHOD Wash Rotary/NQ Core   H	
DATE STARTED         5/23/05         COMPLETED         5/24/05         SURFACE WATER DEPTH         4.0 ft           ELEV. (ft)         DEPTH (ft)         BLOW COUNT (ft)         BLOWS PER FOOT (ft)         SAMP. (ft)         L O O O O O O O O O O O O O O O O O O O	
ELEV. DEPTH BLOW COUNT BLOWS PER FOOT SAMP. O COUNT O 20 40 60 80 100 NO. MOI G SOIL AND F	ROCK DESCRIPTION
(ft) (ft) 0.5ft 0.	ROCK DESCRIPTION
(ii) (ii) 0.5ii 0.5ii 0.5ii 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
765.0 Water Surface	
765.0 Water Surface	
765.0 Water Guriace	
I	
760.0 1.0 Mud Line 761.0 ALLUVIAL: Soft t	to Medium Stiff, Tan and Grey,
2 1 1 SS-10 30.0% Clayey, Fine to C	coarse Sandy SILT with Trace
	ayed Plant Material), Trace Wood Fragments from 4.6ft to
755.5 5.0ft	Loose to Medium Dense,
1 1 1 1 •2 · · · · · · · · · SAT Tan and Grey, Si	ilty, Fine to Coarse SAND with
752.5 + 8.5	Decayed Plant Material)
T	
747.5 + 13.5   SAT	
T	
742.5 + 18.5   SAT	
Ŧ              · · · \ · · · · · · · · ·	
737.5 + 23.5	
735.0	White and Top Cills Fine
The state of the s	nse, White and Tan, Silty, Fine with a Little Rock Fragments
732.5 + 28.5	
<u> </u>	
727.5 + 33.5	
16 24 18 · · · · · · · · · · · · · · M 6001	
+	
722.5 - 38.5	
† 10 42 58/.3 · · · · · · · · · · · · · · · · · · ·	ROCK: Black, White and Tan SED GRANITIC ROCK
†	OED OIGHTIO HOOK
717.1 43.9	
85 15/.1	
T           CRYSTALLINE	ROCK: White to Tan, Black
↓                 Hard to Very Har	ly to Very Slightly Weathered; rd; METAMORPHOSED
	K with Close to Moderately
+           WEATHERED R	ROCK: Green, Tan to Pink
+	k; Severely Weathered; Soft TAMORPHOSED GRANITIC
+         ' ' ' '   ROCK with Close	e to Very Close Fracture
	ROCK: White, Pink, Black
	rately to Slightly Weathered; RPHOSED GRANITIC ROCK
†	ure Special
and Grey; Moder Hard; METAMOI	
and Grey; Moder Hard; METAMOI  700.3 with Close Fractu CRYSALLINE R	OCK: White to Tan, Black
and Grey; Moder Hard; METAMOI  700.3 with Close Fract CRYSALLINE R 698.1 and Grey with a Slightly Weather	OCK: White to Tan, Black Little Pink; Slightly to Very red; Hard to Very Hard;
and Grey; Moder Hard; METAMOR  700.3 with Close Fract CRYSALLINE R 698.1 and Grey with a Slightly Weather METAMORPHO Moderately Close	OCK: White to Tan, Black Little Pink; Slightly to Very red; Hard to Very Hard; SED GRANITIC ROCK with e Fracture Spacing
and Grey; Moder Hard; METAMOI 700.3 with Close Fract CRYSALLINE R 698.1 and Grey with a Slightly Weather METAMORPHO Moderately Close Boring Terminate	OCK: White to Tan, Black Little Pink; Slightly to Very ed; Hard to Very Hard; SED GRANITIC ROCK with



## CORE BORING REPORT

## **SHEET 21 OF 34**

PAGE 1 OF 1

OF THAMBE			PAGE 1 OF 1	
PROJECT NO. 33	3296.1.1	ID No. B-3848	GEOLOGIST G.Licayan/P.Weaver	
SITE DESCRIPTION Bridge No. 102 Over Lake Higgins/Brush Creek on SR 2124  GROUND WATER (ft)				
BORING NO. B2-A		LOCATION 13+79	OFFSET 20ft LT ALIGNMENT -L- 0 HR. NA	
COLLAR ELEV. 761.0		874703.28	<b>EASTING</b> 1734236.88 <b>24</b> HR. NA	
TOTAL DEPTH 62.9			DRILL METHOD Wash Rotary/NQ Core HAMMER TYPE 140 lb Manual	
	23/05	COMPLETED 5/24/05	SURFACE WATER DEPTH 4.0ft	
	23/03	TOTAL RUN 22.5 ft	DRILLER R.Toothman	
CORE SIZE NQ	DRILL RUN	I STRATA II		
ELEV. DEPTH RUN (ft) (ft)	RATE REC. RQE	SAMP. REC. RQD C NO. (ft) (ft) G	DESCRIPTION AND REMARKS	
·	(Min/ft) % %	%   %   C	,	
		(0.0) (310)	Begin Coring @ 39.8 ft  721.2 WEATHERED ROCK: Core Loss in Black, White and Tan  39.8	
721.2 39.8 4.1	:05/0.1 (0.0) (NA 1:30 0%	) (0.0) (NA) 2 0%	721.2 WEATHERED ROCK: Core Loss in Black, White and Tan  METAMORPHOSED GRANITIC ROCK  39.8	
717.1 43.9	1:13 1:10		<del>1</del>	
716 5 44 5 44	1:00 (2.6) (2.3		714.7 46.3	
	:13/0.4 59% 529	(4.0)   (3.3)	CRYSTALLINF ROCK: White to Tan, Black and Grey; Slightly to Very Slightly	
712.1 48.9	:27 4:55	89% 73%	Weathered; Hard to Very Hard; METAMORPHOSED GRANITIC ROCK with Close to Moderately Close Fracture Spacing	
5.0	3:45 4:10   (4.5)   (1.0) 90%   20%	6	7/ 710.2 50.8 5 - \ 5 Joints at 0 Degrees to 10 Degrees	
	2:55	(3.1) (NA) 2 89%	1 Joint at 25 Degrees WEATHERED ROCK: Green, Tan to P:ink and Grey to Black; Severely	
707.1 53.9 5.0	1:50 2:20 (4.6) (3.4	) (6 A) (5 2) (7	Weathered; Soft to Very Soft; METAMORPHOSED GRANITIC ROCK with	
	2:25 92% 689 3:30	(6.4) (5.2) (6.4) (5.2) (6.4)	Close to Very Close Fracture Spacing	
	2:35		Very Broken with Vertical Fracture Throughout Isolated Remnants of CRYSTALLINE ROCK	
702.1 58.9 4.0	3:40 6:48 (4.0) (4.0		Abundant Epidote Causing Green Discoloration	
	7:45   100%   100 9:30	1 (2.2) I (2.2) N	CRYSTALLINE ROCK: White, Pink, Black and Grey; Woderately to Slightly Weathered: Hard: METAMORPHOSED GRANITIC ROCK with Close Fracture	
698.1 62.9	8:10 13:00	100% 100%	698.1 Spacing 62.9	
	13:10		3 Joints at 50 Degrees to 60 Degrees with some Epidote 3 Joints at 10 Degrees to 20 Degrees CRYSTALLINE ROCK: White to Tan, Black and Grey with a Little Plnk; Slightly to Very Slightly Weathered; Hard to Very Hard; METAMORPHOSED GRANITIC ROCK with Moderately Close Fracture Spacing  No Natural Breaks Boring Terminated at Elevation 698.1ft in CRYSTALLINE ROCK: METAMORPHOSED GRANITIC ROCK  Run #5 Cut Short Due to Recovery of 1.0ft of Core Not Recovered from Run #5 (Barrel Full)	