## **APPENDIX 'B'**

## KLOHN CRIPPEN GEOTECHNICAL REPORT - MAY 10, 2004

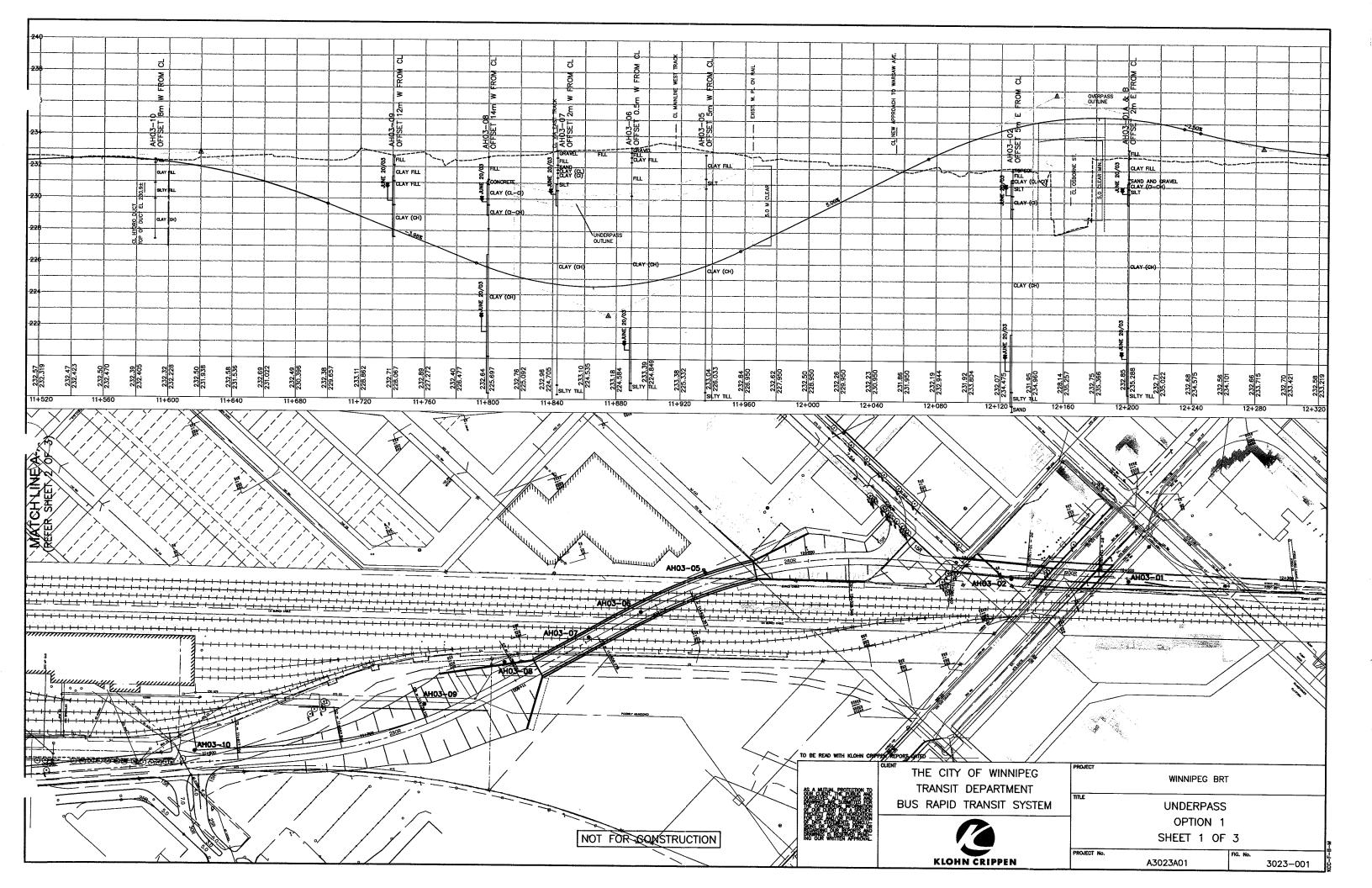
## **Dillon Consulting Limited**

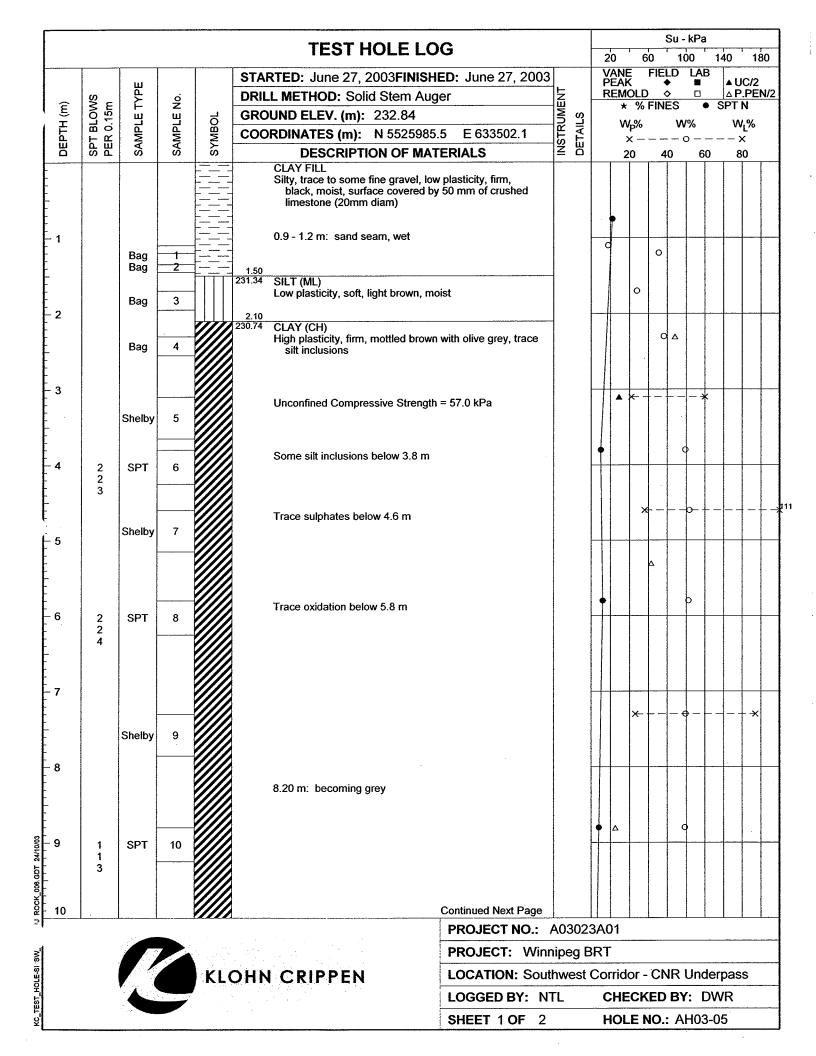
The City of Winnipeg Bus Rapid Transit System – Southwest Corridor Geotechnical Investigation and Preliminary Recommendations *Report* 

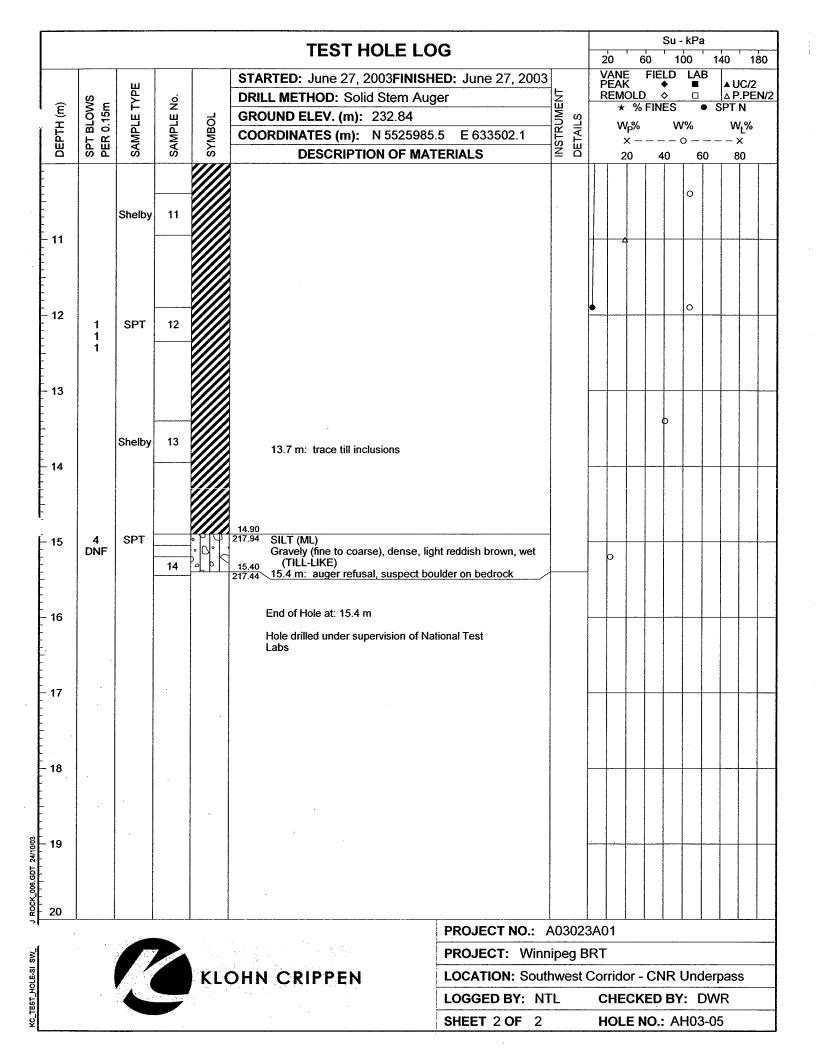
May 2004

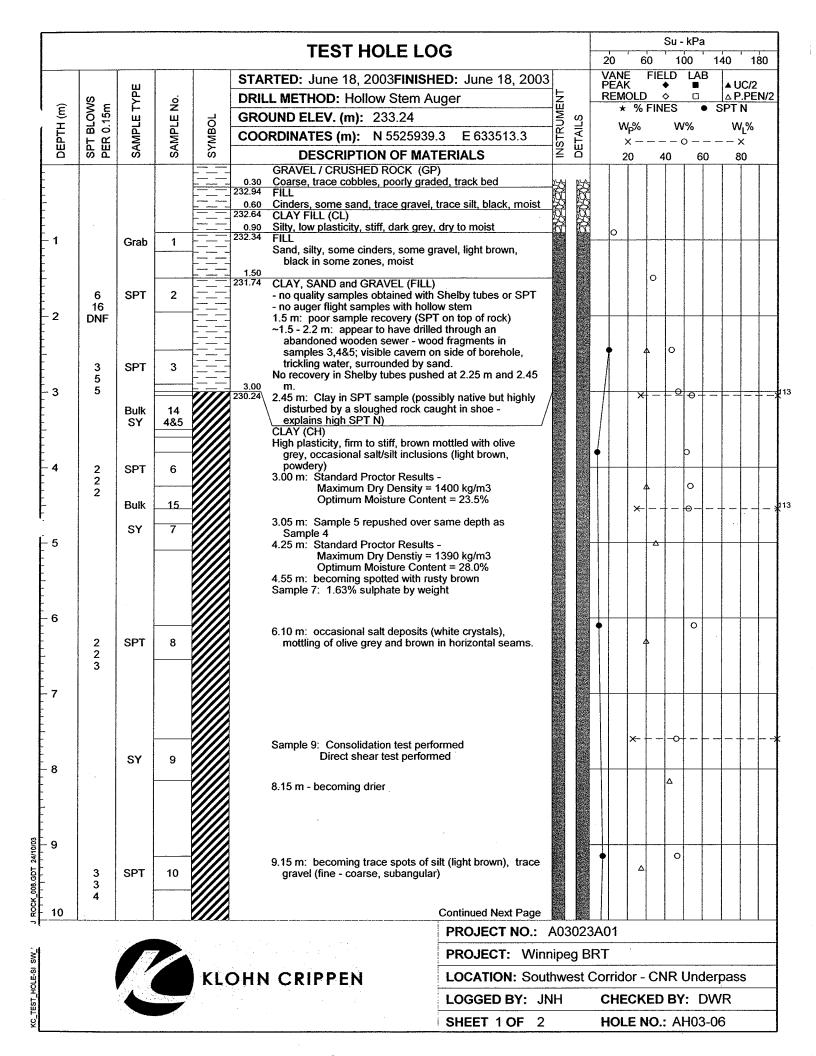
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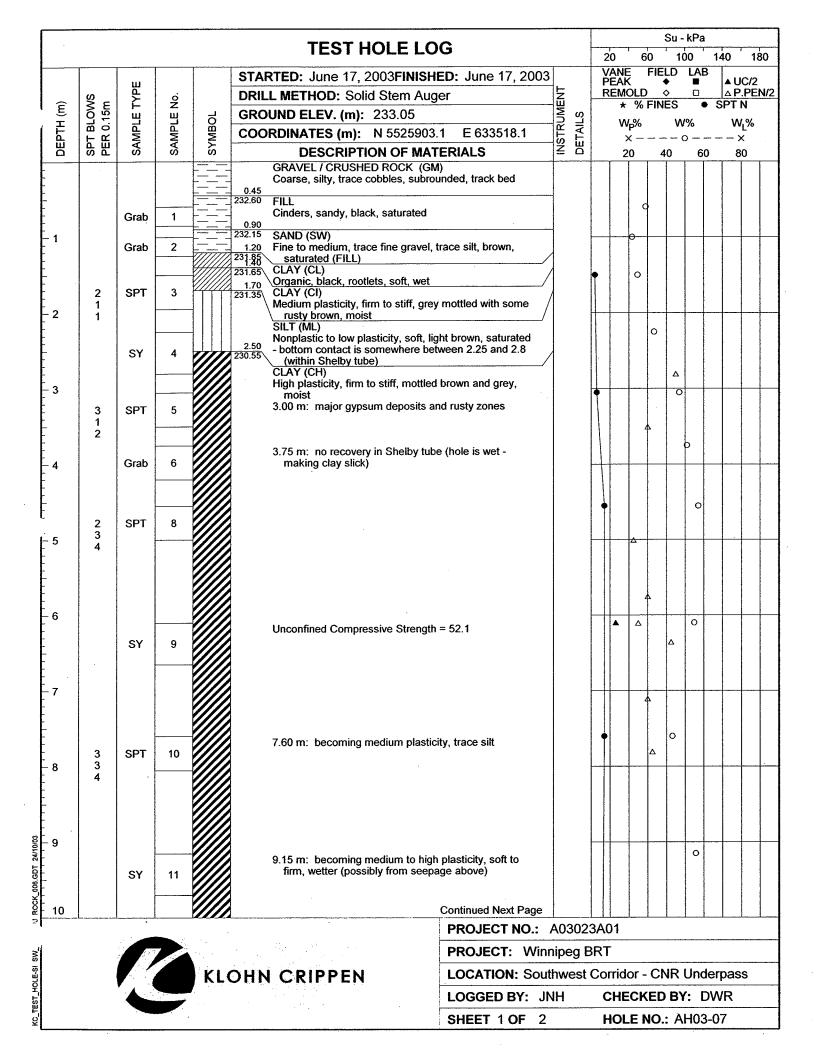








TEST HOLE LOG								Su - kPa 20 60 100 140 180						
	SPT BLOWS PER 0.15m			ļ	<b>STARTED:</b> June 18, 2003 <b>FINISHED:</b> June 18, 2003		VANI PEAI			▲ UC/2				
_		SAMPLE TYPE	<u>o</u>					REM	OLD % FIN	♦ □ FS ●	△ P.PEN/2			
DEPTH (m)		Ч	SAMPLE No.	5			LS UME		% FIN /p%	ES ● ₩%	SPT N W <sub>L</sub> %			
11 di	E B	M	MP	SYMBOL	COORDINATES (m): N 552593		INSTRUN DETAILS		′Р′° Х — — -		×			
B	S H	SP N	ŝ	5	DESCRIPTION OF MA	TERIALS	ΞÖ	. 2	20 4	40 60	80			
		SY	11		10.65 m: frequent spots of silt					0				
- 11		SPT			12.20 m: more frequent spots of silt	∵silt ⊽								
-  -	2		12					• •						
	2													
13	2									• •				
- 14		SY	13			· · · ·			 					
15				14.75 218.49 SILT (ML) - No sample retrieved, assumed 15.20 (TILL-LIKE, inferred from drill a 218.04 15.20 m: Auger refusal 15.25 m: SPT bouncing on rock End of Hole at: 15.2 m 25 mm standpipe installed with flu Recess = 0.20 m Initial water level = 12.34 m bgl	·									
- 17									-					
- 18														
- 19														
20									ч ч					
l		_				PROJECT NO.:					<u>.</u>			
						PROJECT: Win								
		<b>V</b> (		KL	OHN CRIPPEN	LOCATION: Sout	hwest	Corrid	or - C	NR Unde	erpass			
				la <sup>1</sup> Suite		LOGGED BY: JI	١H	CHE	ECKEE	BY: D	WR			
						SHEET 2 OF 2		HOL	E NO	.: AH03-	-06			



TEST HOLE LOG								Su - kPa 20 60 100 140 180						
(m)	SPT BLOWS PER 0.15m	SAMPLE TYPE	SAMPLE No.	SYMBOL	STARTED: June 17, 2003FINISHED: June 17, 2003 DRILL METHOD: Solid Stem Auger		MENT	VAN PEA REI	NE AK MOLD	FIELD		<sup>3</sup> ▲t	JC/2 P.PEN/2	
DEPTH (m)					GROUND ELEV. (m): 233.05 COORDINATES (m): N 5525903. DESCRIPTION OF MAT	1 E 633518.1 ERIALS	INSTRUMENT DETAILS	, 	₩ <mark>₽</mark> % ×− 20	40	N% 0 6(		V[% × 30	
- - - - - - - - - - - - - - - - - - -	2 2 2		SPT	PT 12					•			0		
- - - - - - - - - -					11.40 m: Hole is squeezing in prev Shelby sample 12.50 m: Very soft clay (driller can				-		-0			
- 13					12.50 m: Very soft clay (driller can push drill in without rotating) - could be due to infiltration of water from above	tion of water from					0			
- 		Grab		14.70 218.35 SILT (ML) Low plasticity to non-plastic, some fine gravel, trace			0							
- 15 		Grab 15		sand, trace clay, light pinkish brown, wet (TILL-LIKE 15.30 15.30 m: Auger refusal 217.75 End of Hole at: 15.3 m	own, wet (TILL-LIKE)									
- 17			Hole backfilled with cuttings. Top 3.0 m sealed with bentonite chips.											
- 18									-					
10, 24/10/03														
100.000 June 100.001						PROJECT NO.:								
KLOHN CRIPPEN					PROJECT: Winnipeg BRT LOCATION: Southwest Corridor - CNR Underpass									
					LOGGED BY:JNHCHECKED BY:DSHEET 2 OF2HOLE NO.:AH03					OWR				
×						JILLI Z UF Z			- <u></u> -				<u></u>	

