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APPENDIX 'A' GEOTECHNICAL REPORT

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APPENDIX 'A' - GEOTECHNICAL REPORT

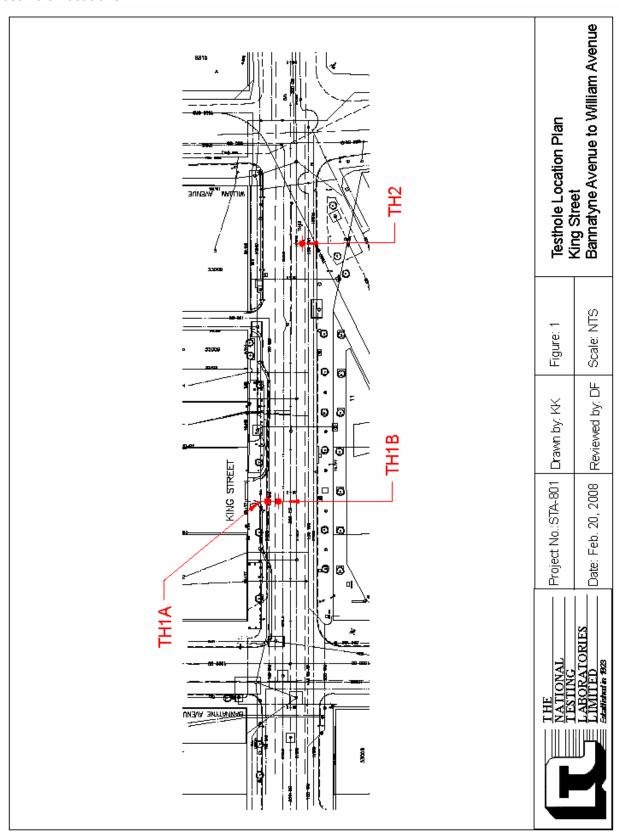
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The geotechnical report is provided to aid in the Contractor's evaluation of the existing pavement structure and/or soil conditions. The information presented is considered accurate at the locations shown on the Drawings and at the time of drilling. However, variations in pavement structure and/or soil conditions may exist between test holes and fluctuations in groundwater levels can be expected seasonally and may occur as a result of construction activities. The nature and extent of variations may not become evident until construction commences.

Geotechnical Report for King Street

Test Hole Locations



Summary of Core Samples

King Street
Bannatyne Avenue to William Avenue
2008 Regional Street Renewal Program

F		Pavemer	Pavement Surface	Pavement S	Pavement Structure Material	-1	Sample	Sample Moisture	Par	Particle Size Analysis	Analysi	•	Att	Atterberg Limits	nits	
lestnole ID	Testhole Location	Туре	Thickness (mm)	Туре	Thickness (mm) Description	sample Description	Depth (m)	Depth Content Gravel Sand Silt Clay (m) (%) (%) (%) (%) (%)	Gravel (%)	Sand (%)	Silt (%)		Liquid Limit	Liquid Plastic Plasticity Limit Limit Index	Plasticity Index	
TH1A	West Traffic Lane, 34 m north of TH1A Bannatyne Avenue, 1.5 m east of the turning lane curb	Asphalt / Concrete	120 / 186 Granular	Granular	0.8	N/A	N/A	1	1	ı	1		1	ı	1	
TH1B	West Traffic Lane, 34 m north of Bannatyne Avenue, 4.1 m east of the turning lane curb	Asphalt	300	Granular	8.0	N/A	W/A		1	ı			ı	ı	ı	
1H.7	am		150 / 150	4/N	₹/N	Clay	6:0	36	0.0	2.6 21.1 76.3	21.1	76.3	87	24	63	
<u>1</u> =	Avenue, 3.2 m west of the east curb	Concrete	2			Silt	2.1	25	0	0 2.3 77.9 19.8	6.77	19.8	25	18	7	

Test Hole Log for Test Hole 1A

TESTHOLE TH1A

IHE NATIONAL IESTING LAFORATORIES LIMITED DIMENSION IN 1972

Project Name: 2008 City of Winnipeg Regional Street Renewals

Client: Stantec Consulting Limited

Depth of Testhole: 1.1 m Logged by: Keith Villiers

Date Drilled: February 6, 2008

Site: King Street, between Bannatyne Avenue and William Avenue Logged & Testhole Location: 34 m N of Bannatyne Avenue, 1.5 m E of the turning lane curb

		Subsurface Profile	Laboratory Testing
Depth (m)	Symbol	Description	Water Content (%) 0 20 40 60 80 100
		Ground Surface	
0.0-		Asphalt	
	_	Concrete	
0.5-		Granular Base - brown, compact, moist, 20 mm maximum aggregate size	15, , , ,
0.5-			12
1.0-			10
	8.08		
	-	 Frost present through out depth. No water seepage or soil sloughing was observed during or after drilling. Auger refusal at 1.1 m on top of a concrete hydro duct. 	
1.5-	-		

Test Hole Log for Test Hole 1B

TESTHOLE TH1B

IHE NATIONAL LESING LABORATORIES UMITED EMBERS OF NEW PROPERTY OF THE PROPERTY

Project Name: 2008 City of Winnipeg Regional Street Renewals Client: Stantec Consulting Limited

Site: King Street, between Bannatyne Avenue and William Avenue

Logged by: Kurtis Kulchyski

Depth of Testhole: 1.1 m

Date Drilled: February 8, 2008

		Subsurface Profile
Depth (m)	Symbol	Description
0.0-		Ground Surface
-		Asphalt
-		Granular Base
-		- brown, compact, moist, 20 mm maximum aggregate size
0.5- - -		
1.0-		
-	-	 Frost present through out depth. No water seepage or soil sloughing was observed during or after drilling. Auger refusal at 1.1 m on top of a abandoned concrete steam duct.
1.5-		

Test Hole Log for Test Hole 2

TESTHOLE TH2

IHE NATIONAL IESTING LABORATORIES LIMITED

Project Name: 2008 City of Winnipeg Regional Street Renewals

Client: Stantec Consulting Limited

Site: King Street, between Bannatyne Avenue and William Avenue

Testhole Location: 19 m S of William Avenue, 3.2 m W of the east curb

Date Drilled: February 6, 2008 Depth of Testhole: 2.1 m Logged by: Keith Villiers

	, .	Subsurface Profile				Labor	atory [*]	Testin	g		
Depth (m)	Symbol		⊃L - 0			tent (%)) LL 110	Gravel (%)	Sand (%)	SIIt (%)	Clay (%)
			Ě	25	50	75	$\stackrel{110}{=}$	ō	Ø	<u>~</u>	ਹ
0.0-		Ground Surface Asphalt				_T					
		Concrete		3	7						
0.5-		Clay Fill - black to brown, stiff, moist, high plasticity, with trace fine gravel Clay - grey to brown, firm, moist, high plasticity,		25							
1.0-				31	6			0.0	2.6	21.1	76
1.5-				30							
2.0-	-	Silt - tan, firm, moist, low plasticity		25				0.0	2.3	77.9	19
2.5-	-	Frost present to a depth of 1.4 m. No water seepage or soil sloughing was observed during or after drilling. Testhole was terminated at 2.1 m.									
3.0-	-										

Pavement Core Photos



Testhole TH1A core sample



Testhole TH2 core sample

Note: An intact core sample could not be recovered from Testhole TH1B.