# APPENDIX 'A' GEOTECHNICAL REPORT

# **APPENDIX 'A' - GEOTECHNICAL REPORT**

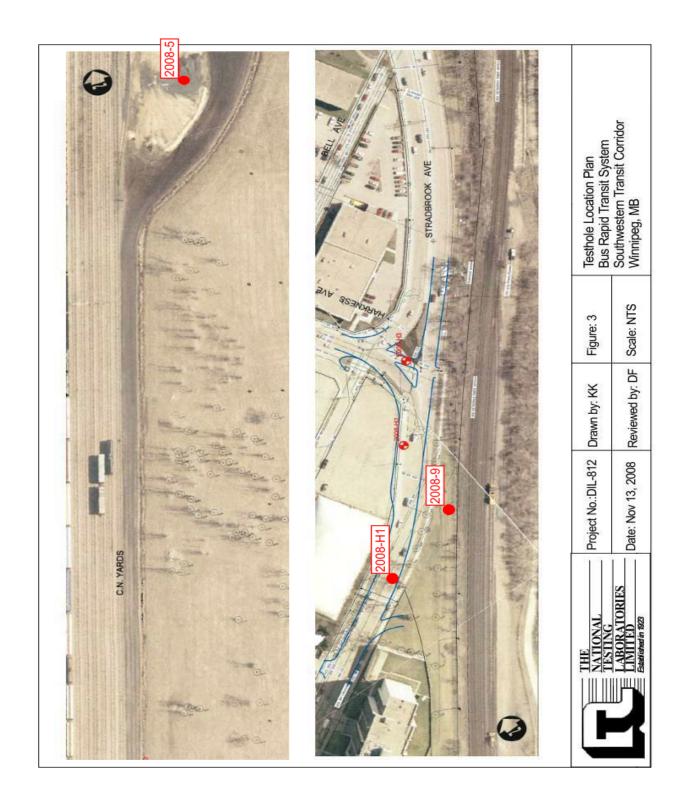
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The geotechnical report is provided to aid in the Contractor's evaluation of thesoil conditions. The information presented is considered accurate at the locations shown on the Drawings and at the time of drilling. However, variations insoil conditions 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 Southwest Rapid Transit Corridor – Stage 1: Station Construction, Warsaw Reconstruction & Associated Works

# **Test Hole Locations**



# **Summary of Core Samples**

# TABLE 1 TESTHOLE LOCATIONS BUS RAPID TRANSIT SYSTEM SOUTHWESTERN TRANSIT CORRIDOR

Testhole ID	UTM Co-ordinate	General Description
2008-5	633276 E / 5525020 N	CNR Fort Rouge Yards
2008-9	633974 E / 5527056 N	Between Stradbrook and CNR Rivers
2008-H1	633925 E / 5527037 N	Stradbrook Avenue

#### Test Hole Log for 2008-5

# **TESTHOLE 2008-5**

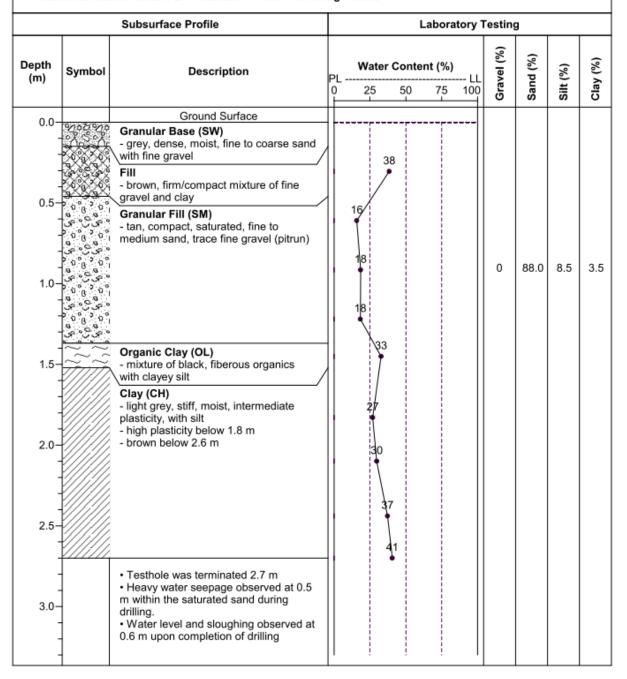
THE NATIONAL TESTING LABORATORIES LABORATORIES

Project Name: Bus Rapid Transit System

Client: Dillon Consulting Ltd.
Site: Southwestern Transit Corridor

Testhole Location: 633276 E / 5525020 N - CNR Fort Rouge Yards

Date Drilled: October 22, 2008 Depth of Testhole: 2.7 m Logged by: Kurtis Kulchyski



# Test Hole Log for 2008-9

# **TESTHOLE 2008-9**

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Project Name: Bus Rapid Transit System

Client: Dillon Consulting Ltd.

Depth of Testhole: 2.1 m

Site: Southwestern Transit Corridor

Date Drilled: October 22, 2008

Depth of Testhole: 2.1 m

Logged by: Kurtis Kulchyski

Testhole Location: 633974 E / 5527056N - Between Stradbrook and CNR Rivers

Subsurface Profile			Laboratory Testing
Depth (m)	Symbol	Description	Water Content (%) 0 20 40 60 80 10
0.0-		Ground Surface	
- 0.0		Topsoil Clay Fill (CH) - brown, stiff, moist, high plasticity, some fine gravel	25
0.5- -			24
- 1.0- - -		Granular Fill (SW) - tan, compact, moist, fine to coarse sand, with fine gravel, some clay	10
1.5- - -		Silt (CL-ML) - tan, soft, moist, low plasticity, with layers of clay  Clay (CH) - brown, stiff, moist, high plasticity	37
2.0-			41
-		Testhole was terminated 2.1 m     No water seepage or sloughing were observed during or upon completion of drilling	
2.5- - -			
3.0-			

# Test Hole Log for 2008-H1

#### TESTHOLE 2008-H1

Project Name: Bus Rapid Transit System

Client: Dillon Consulting Ltd.
Site: Southwestern Transit Corridor

Testhole Location: 633925 E / 5527037 N - Stradbrook Avenue



Date Drilled: October 30, 2008 Depth of Testhole: 2.1 m Logged by: Kurtis Kulchyski

Subsurface Profile			Laboratory Testin	Laboratory Testing	
Depth (m)	Symbol	Description	Water Content (%) 0 20 40 60 80		
		Ground Surface			
0.0- - -		Concrete	4		
0.5- - - -		Limestone Base (GW) - 20 mm maximum aggregate size	6		
1.0-		Recycled Concrete Fill - dark grey, dense, with sand and fine gravel			
1.5- -		Silt (CL-ML) - tan, firm, moist, low plasticity, with clay	24		
2.0-		Clay (CH) - brown, stiff, moist, high plasticity, with layers of silt	31		
2.5-		Testhole was terminated 2.1 m No water seepage was observed during or upon completion of drilling Sloughing at 1.4 m from the limestone base was observed upon completion of drilling. Black polyethylene fibers were observed between the recycled concrete and silt layer.			
3.0-					