

SHARP BLVD. AND DUFFIELD STREET ALLEY

PORTAGE AVENUE TO LODGE AVENUE

2006 STREET RENEWAL PROGRAM

GEOTECHNICAL INVESTIGATION

**City of Winnipeg
2006 Street Renewal Program
Geotechnical Investigation**

Testhole No.	Testhole Location	Pavement Surface		Pavement Structure Material		Sample Description	Sample Depth (m)	Moisture Content (%)	Particle Size Analysis				Atterberg Limits		
		Type	Thickness (mm)	Type	Thickness (mm)				Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid Limit	Plastic Limit	Plasticity Limit
1	Sharp/Duffield Alley	NA	NA	Granular	600										
2	Sharp/Duffield Alley	NA	NA	Granular	200	Clayey Silt	0.9	21.2	0.0	14.7	64.6	20.7	24	14	10
3	Sharp/Duffield Alley	NA	NA	Granular	200										
4	Sharp/Duffield Alley	NA	NA	Granular	200	Clay	1.8	41.2	0	0.8	14.8	84.4	90	27	63

TESTHOLE TH1



Project Name: 2006 City of Winnipeg Street Renewal Program

Date Drilled: December 16, 2005

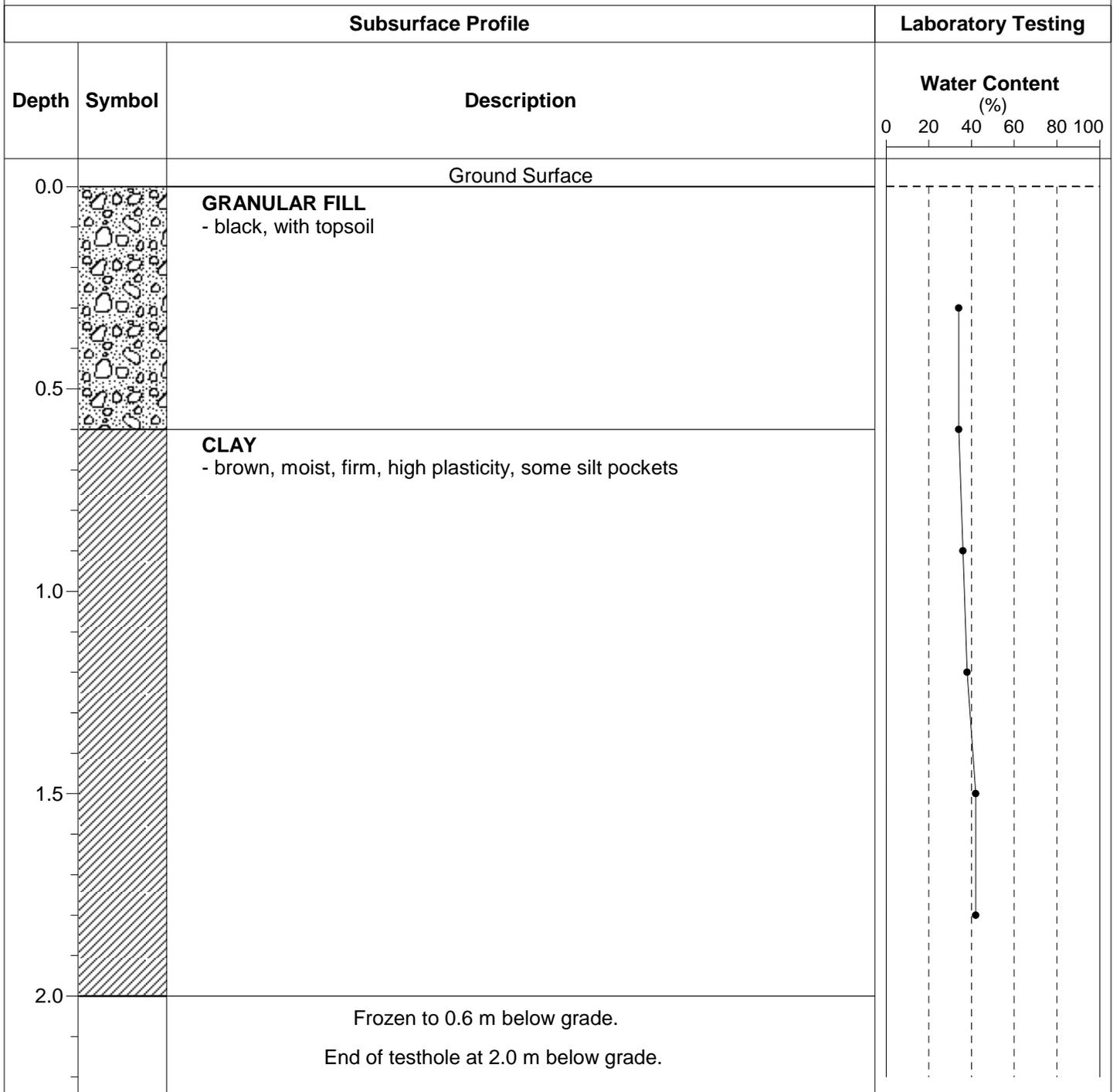
Client: ND LEA Engineers & Planners Inc.

Depth of Testhole: 2 m

Site: Sharp/Duffield Alley

Logged by: Rob Brown

Testhole Location: 3 m East and 1 m North of SE fence corner at 201 Sharp Blvd.



TESTHOLE TH2



Project Name: 2006 City of Winnipeg Street Renewal Program

Date Drilled: December 16, 2005

Client: ND LEA Engineers & Planners Inc.

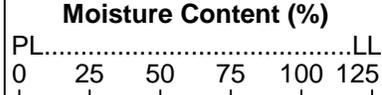
Depth of Testhole: 2 m

Site: Sharp/Duffield Alley

Logged by: Rob Brown

Testhole Location: 5 m East, 2 m South of Southeast Garage corner at 211 Sharp

Subsurface Profile			Laboratory Testing									
Depth (m)	Symbol	Description	Moisture Content (%)				Gravel (%)	Sand (%)	Silt (%)	Clay (%)		
			PL	LL								
			0	25	50	75	100	125				
0.0		Ground Surface										
		GRANULAR FILL - tan, sand and gravel										
		TOPSOIL - black										
0.5												
		SILT - tan, moist, soft, low plasticity										
1.0												
		CLAY - brown, moist, firm, high plasticity										
1.5												
2.0												
		Frozen to 0.6 m below grade. End of testhole at 2.0 m below grade.										



Gravel (%)	Sand (%)	Silt (%)	Clay (%)
0.0	14.7	64.6	20.7

TESTHOLE TH3



Project Name: 2006 City of Winnipeg Street Renewal Program

Date Drilled: December 16, 2005

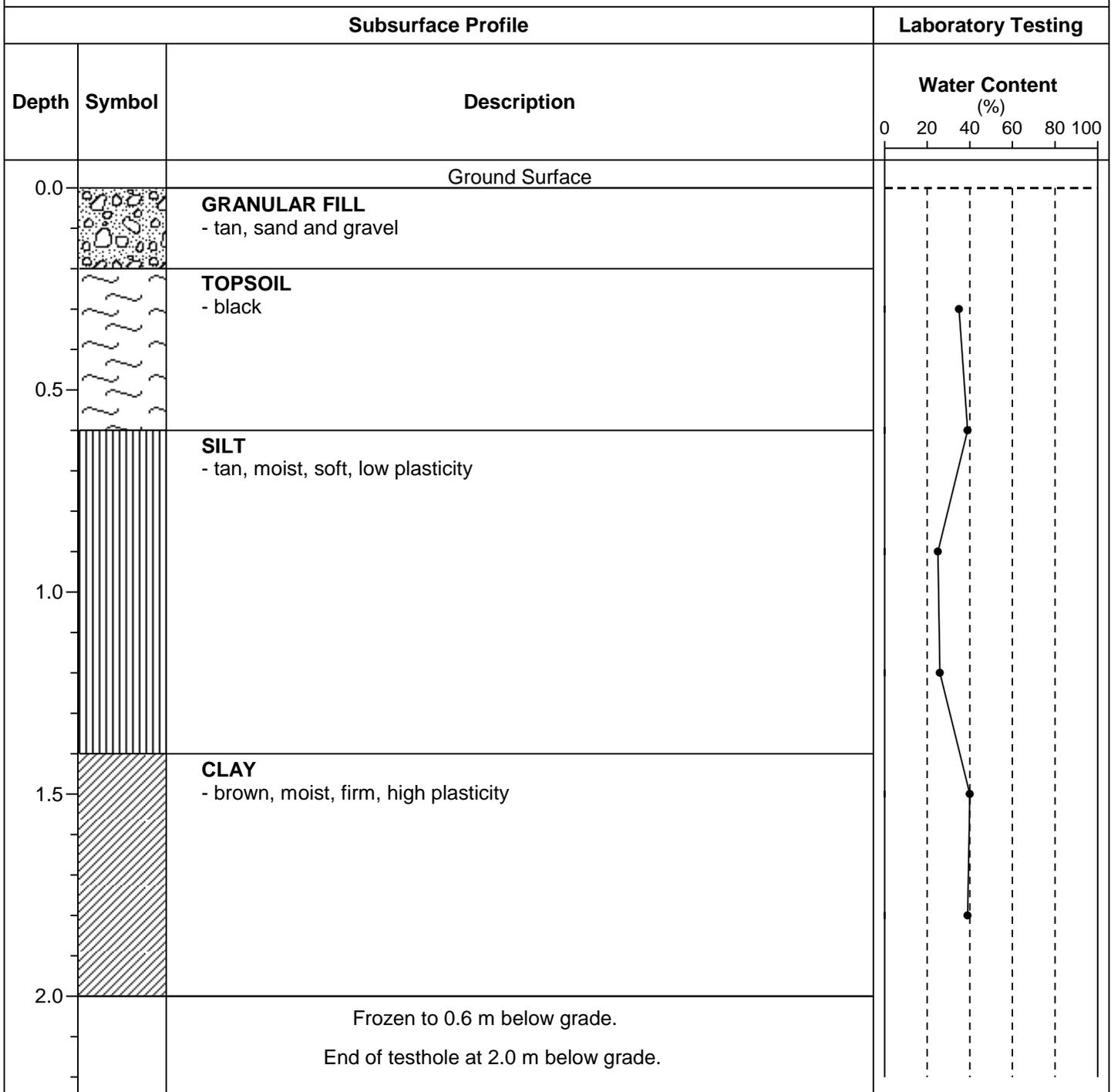
Client: ND LEA Engineers & Planners Inc.

Depth of Testhole: 2 m

Site: Sharp/Duffield Alley

Logged by: Rob Brown

Testhole Location: 4 m East, 7 m South of Northeast fence corner at 227 Sharp



TESTHOLE TH4



Project Name: 2006 City of Winnipeg Street Renewal Program

Date Drilled: December 16, 2005

Client: ND LEA Engineers & Planners Inc.

Depth of Testhole: 2 m

Site: Sharp/Duffield Alley

Logged by: Rob Brown

Testhole Location: 4 m East, 2 m North of Southeast garage corner at 247 Sharp

Subsurface Profile			Laboratory Testing							
Depth (m)	Symbol	Description	Moisture Content (%)				Gravel (%)	Sand (%)	Silt (%)	Clay (%)
			PL	LL	0	25				
0.0		Ground Surface								
		GRANULAR FILL - tan, sand and gravel								
		TOPSOIL - black								
0.5										
		CLAY - brown, moist, firm, intermediate plasticity, with silt pockets - and silt below 1.8 m, soft								
1.0										
1.5										
2.0										
		Frozen to 0.6 m below grade. End of testhole at 2.0 m below grade.								
							0.0	0.8	14.8	84.4