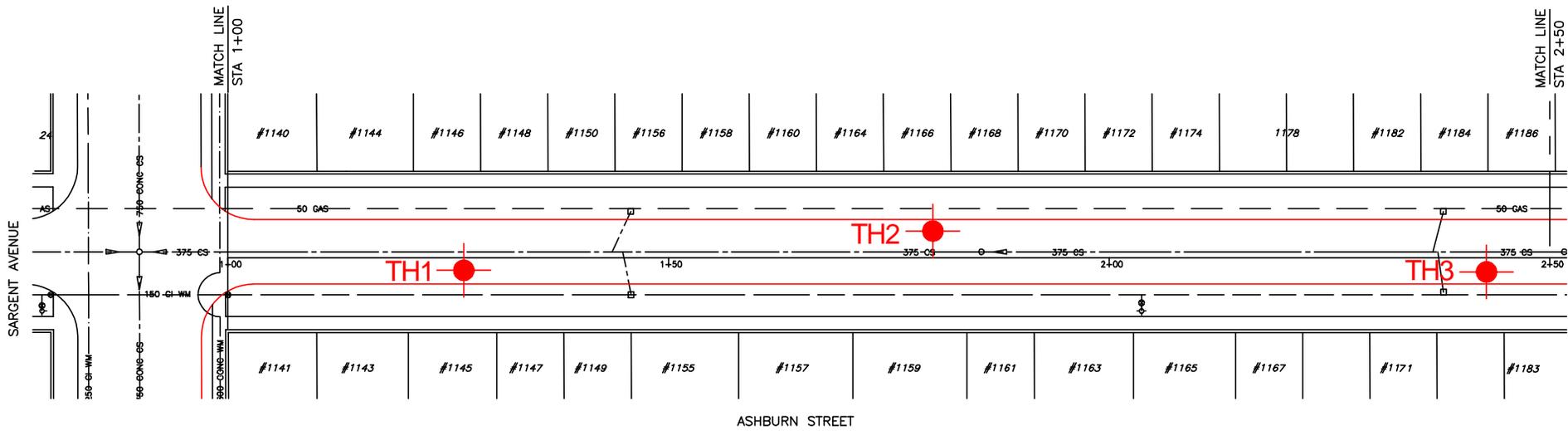


**ASHBURN STREET
SARGENT AVENUE TO WELLINGTON AVENUE
CITY OF WINNIPEG 2009 STREET RENEWAL PROGRAM**

Prepared for
KGS GROUP INC.
3rd FLOOR - 865 WAVERLEY STREET
WINNIPEG, MANITOBA
R3T 5P4

Prepared by
THE NATIONAL TESTING LABORATORIES LIMITED
199 HENLOW BAY
WINNIPEG, MANITOBA
R3Y 1G4

March 16, 2009



**THE
NATIONAL
TESTING
LABORATORIES
LIMITED**
Established in 1923

Project No.:KGS-862

Drawn by: GL

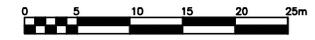
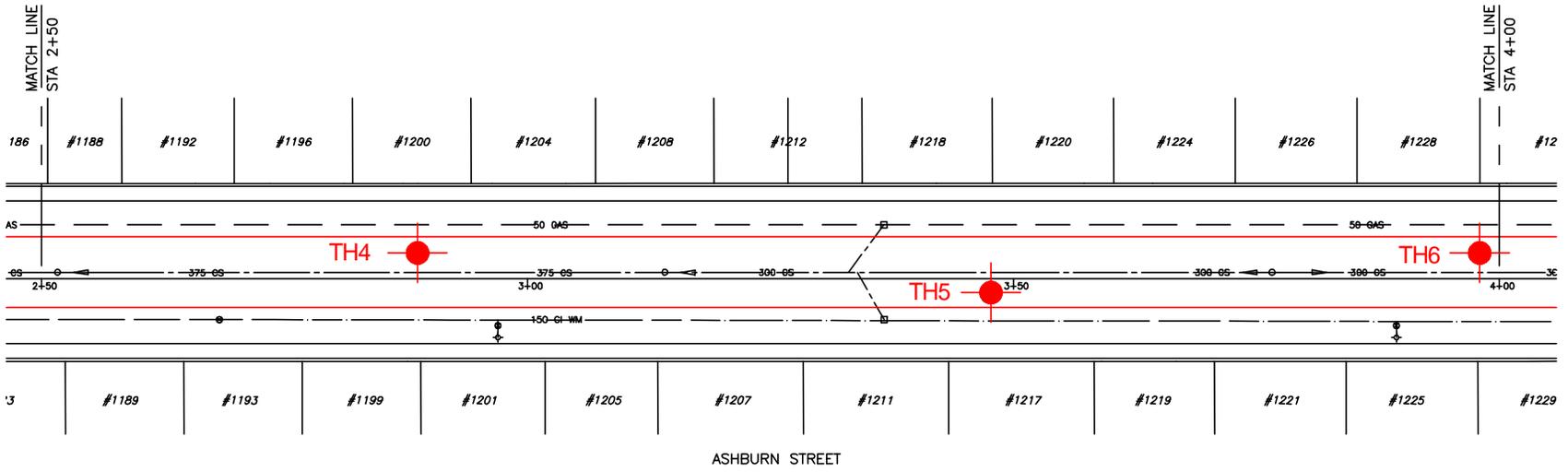
Figure: 1

Testhole Location Plan
Ashburn Street
Sargent Avenue to Wellington Avenue
City of Winnipeg 2009 Street Renewal Program

Date: Feb 24, 2009

Reviewed by: DF

Scale: NTS



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Established in 1923

Project No.:KGS-862

Drawn by: GL

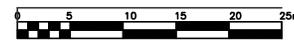
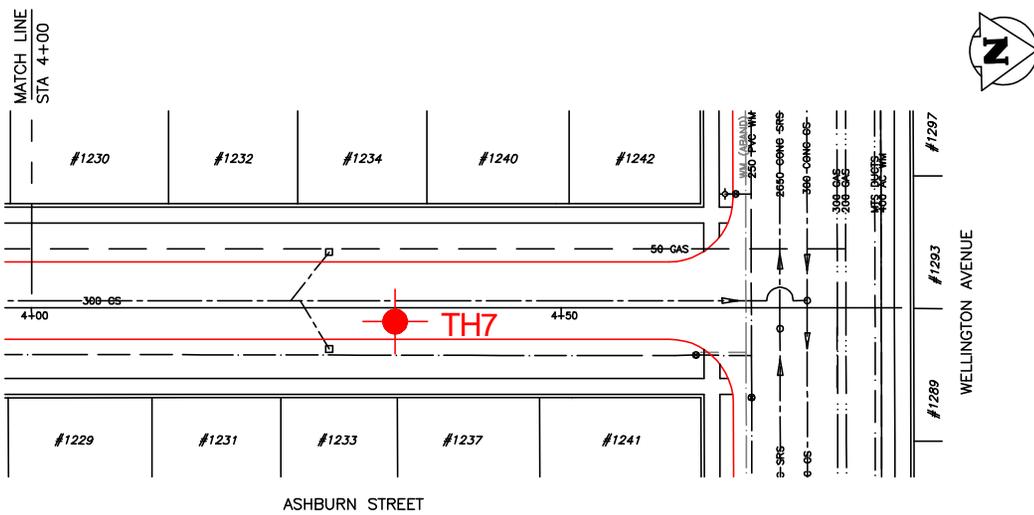
Figure: 2

Testhole Location Plan
Ashburn Street
Sargent Avenue to Wellington Avenue
City of Winnipeg 2009 Street Renewal Program

Date: Feb 24, 2009

Reviewed by: DF

Scale: NTS



**THE
NATIONAL
TESTING
LABORATORIES
LIMITED**
Established in 1923

Project No.:KGS-862

Drawn by: GL

Figure: 3

Testhole Location Plan
Ashburn Street
Sargent Avenue and Wellington Avenue
City of Winnipeg 2009 Street Renewal Program

Date: Feb. 24, 2009

Reviewed by: DF

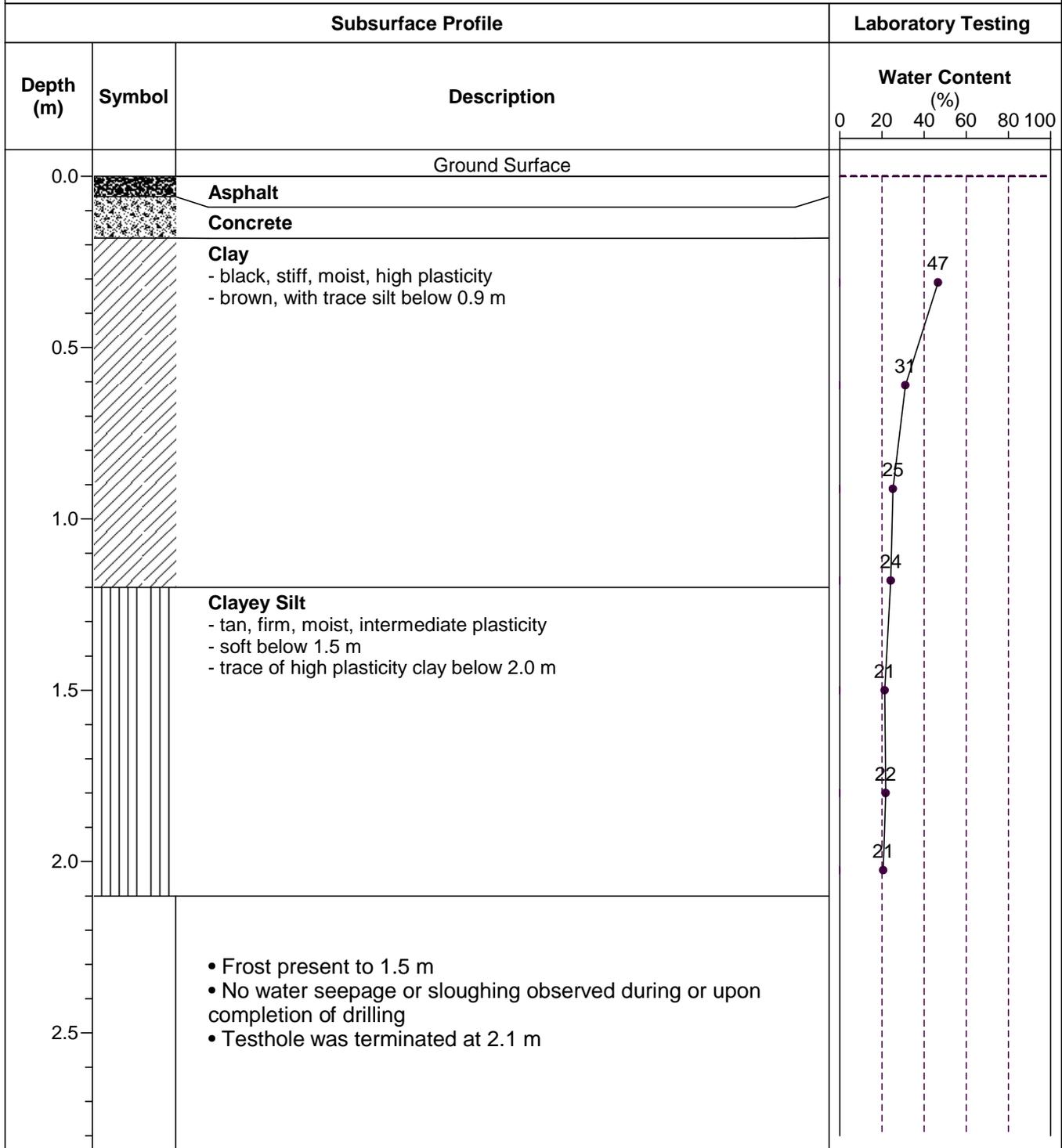
Scale: NTS

TESTHOLE TH1



Project Name: City of Winnipeg 2009 Street Renewal Program
Client: KGS Group
Site: Ashburn Street, Sargent Ave to Wellington Ave
Testhole Location: Northbound lane, 4 m south of the property line of 1145 / 1143 Ashburn St.

Date Drilled: January 21, 2009
Depth of Testhole: 2.1 m
Logged by: Jeff Brant

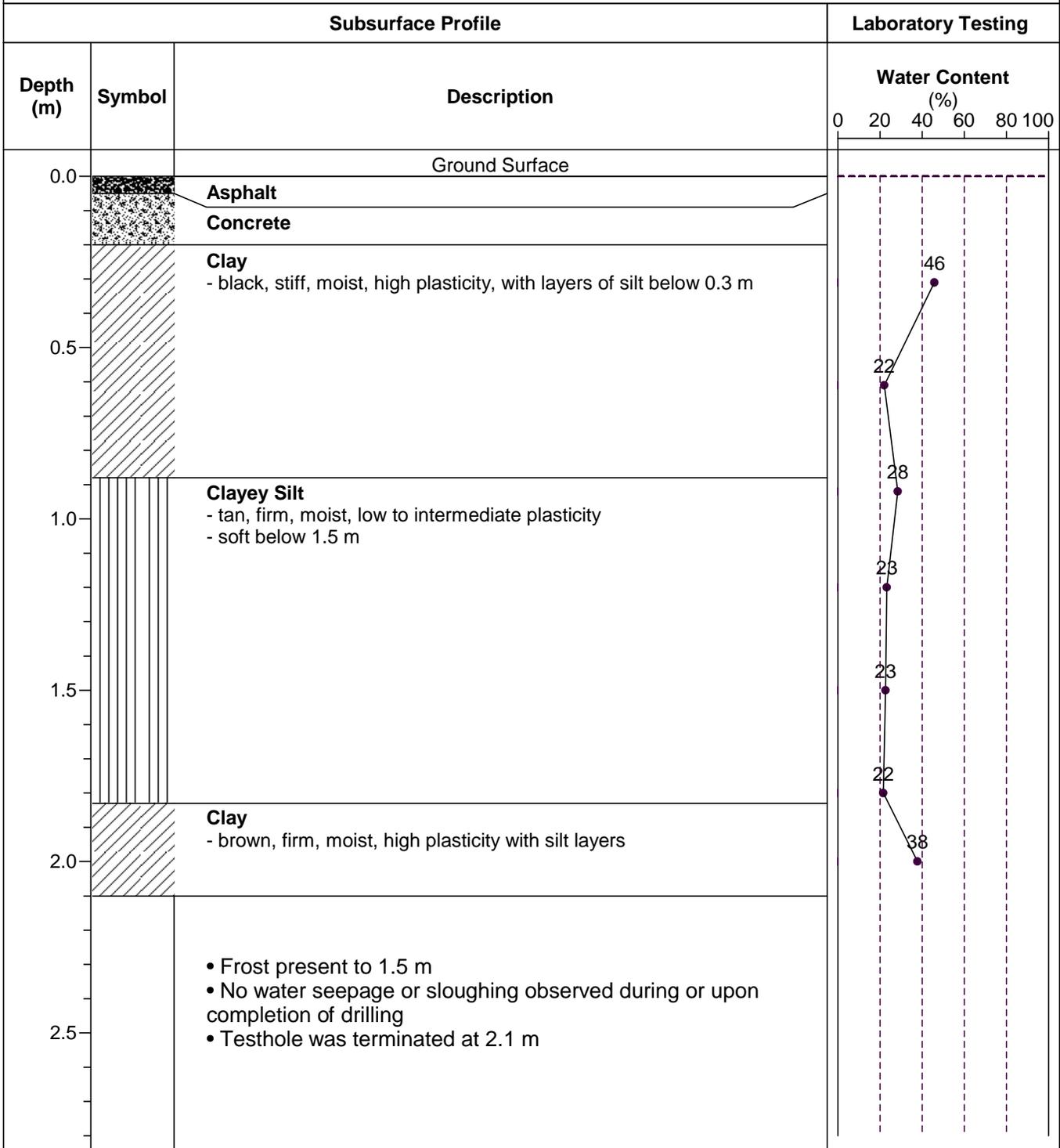


TESTHOLE TH2



Project Name: City of Winnipeg 2009 Street Renewal Program
Client: KGS Group
Site: Ashburn Street, Sargent Ave to Wellington Ave
Testhole Location: Southbound lane, 2 m south of the property line of 1166 / 1168 Ashburn St.

Date Drilled: January 21, 2009
Depth of Testhole: 2.1 m
Logged by: Jeff Brant

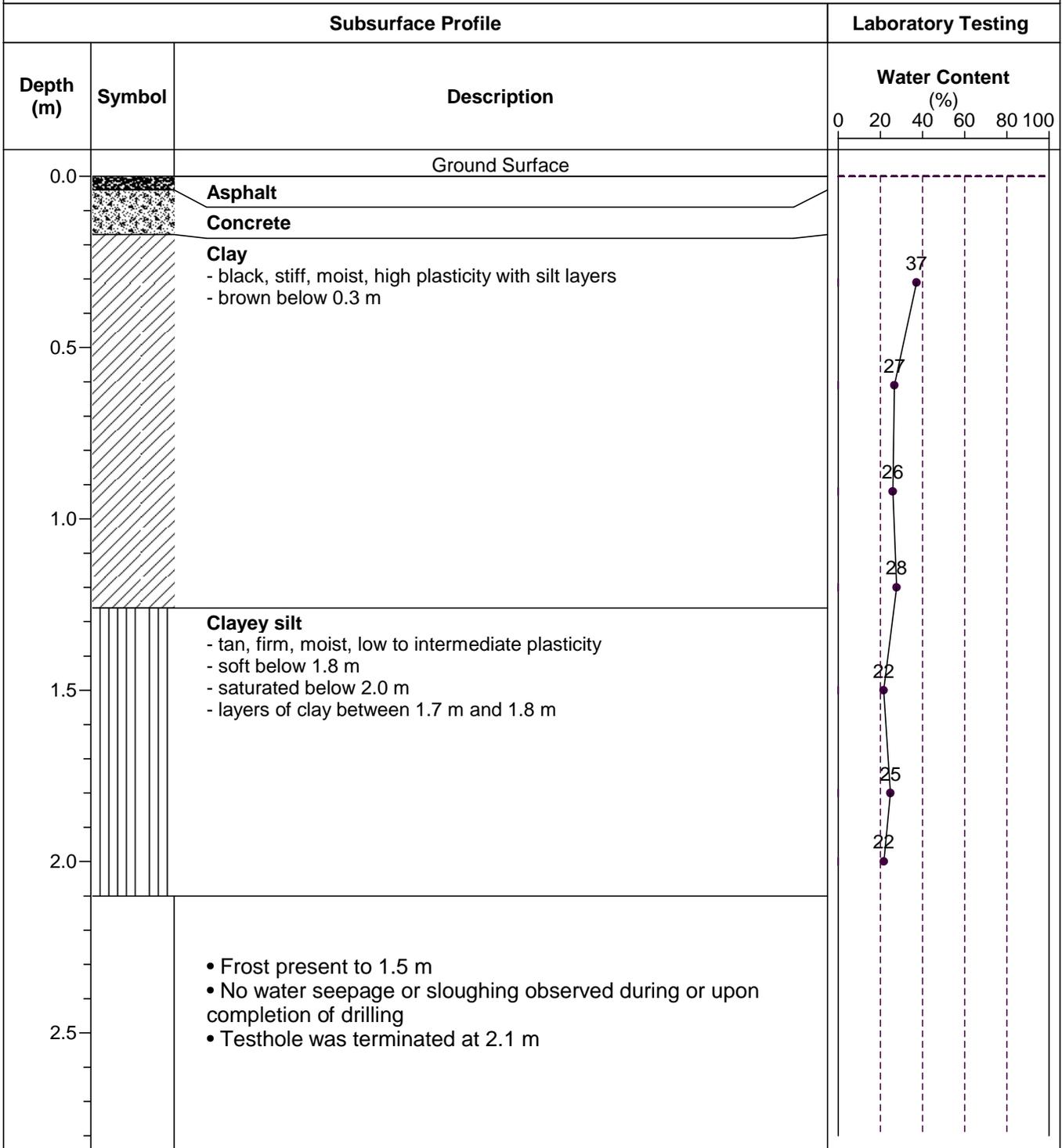


TESTHOLE TH3



Project Name: City of Winnipeg 2009 Street Renewal Program
Client: KGS Group
Site: Ashburn Street, Sargent Ave to Wellington Ave
Testhole Location: Northbound lane, 3 m north of property line of 1183 / 1171 Ashburn St.

Date Drilled: January 21, 2009
Depth of Testhole: 2.1 m
Logged by: Jeff Brant



TESTHOLE TH4



Project Name: City of Winnipeg 2009 Street Renewal Program
Client: KGS Group
Site: Ashburn Street, Sargent Ave to Wellington Ave
Testhole Location: Southbound lane, In line with property line of 1201 / 1199 Ashburn St.

Date Drilled: January 21, 2009
Depth of Testhole: 2.1 m
Logged by: Jeff Brant

Subsurface Profile			Laboratory Testing					
Depth (m)	Symbol	Description	Water Content (%)		Gravel (%)	Sand (%)	Silt (%)	Clay (%)
			PL	LL				
0.0		Ground Surface						
		Asphalt						
		Concrete						
		Clay Fill - black, stiff, moist, high plasticity, some sand and fine gravel						
0.5		Clayey silt - tan, stiff, moist, low to intermediate plasticity with layers of fine sand	21					
		Clay - brown, stiff, moist, high plasticity with trace tan silt	15		0	32.9	35.9	31.2
1.0			24					
		Silt - tan, firm, moist, low to intermediate plasticity with clay layers to a depth of 1.7 m	28					
1.5			29					
		Clay - brown, firm, moist, high plasticity	20					
2.0			39					
2.5		<ul style="list-style-type: none"> Frost present to 1.5 m No water seepage or sloughing observed during or upon completion of drilling Testhole was terminated at 2.1 m 						

TESTHOLE TH5



Project Name: City of Winnipeg 2009 Street Renewal Program
Client: KGS Group
Site: Ashburn Street, Sargent Ave to Wellington Ave
Testhole Location: Southbound lane, In line with property line of 1218 / 1220 Ashburn St.

Date Drilled: January 21, 2009
Depth of Testhole: 2.1 m
Logged by: Jeff Brant

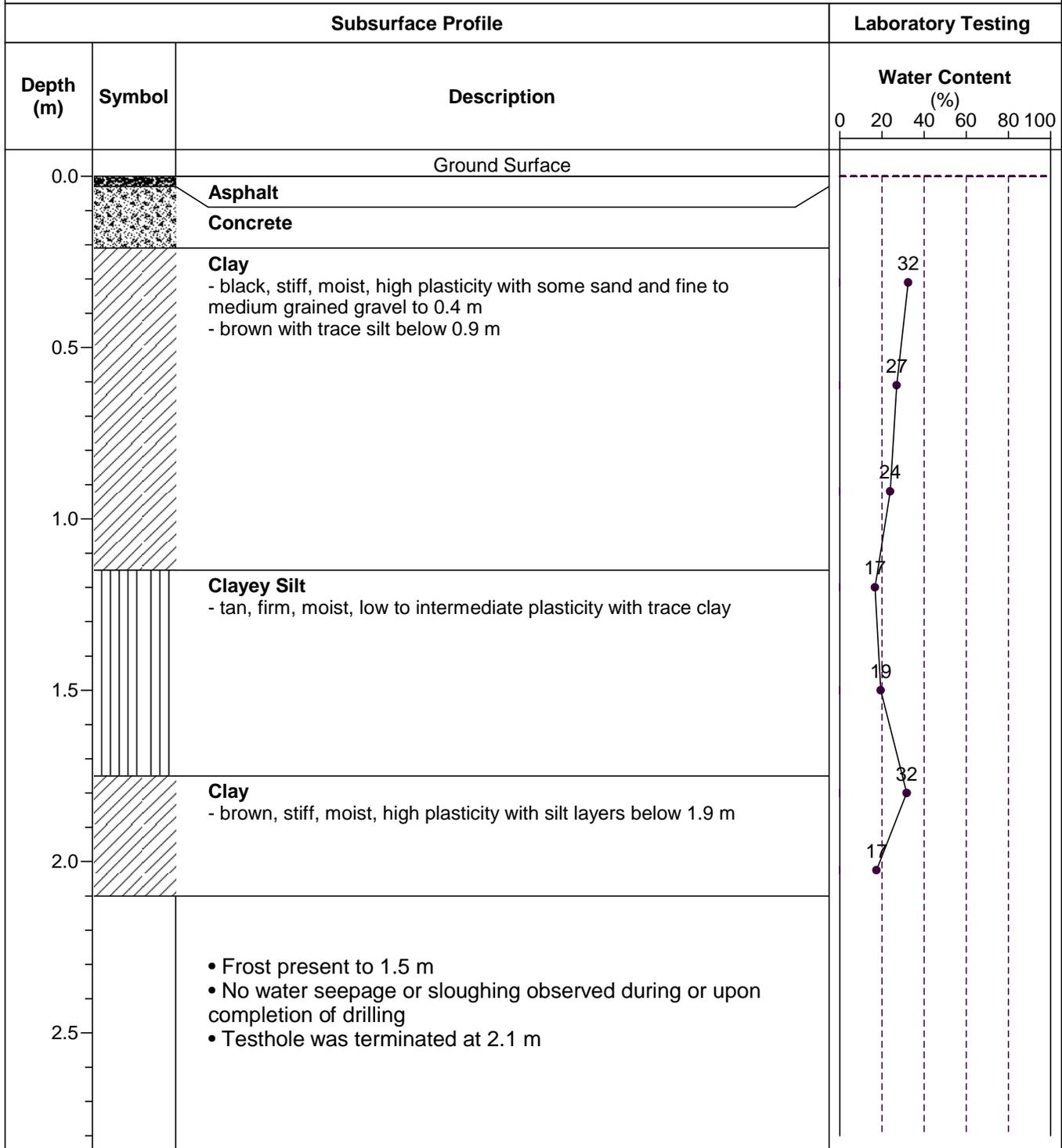
Subsurface Profile			Laboratory Testing					
Depth (m)	Symbol	Description	Water Content (%)		Gravel (%)	Sand (%)	Silt (%)	Clay (%)
			PL	LL				
0.0		Ground Surface						
		Asphalt						
		Concrete						
		Clay - black, stiff, moist, high plasticity - brown with layers of silt below 0.3 m	24					
0.5			25					
1.0			27		0	1.6	20.8	77.6
			28					
1.5		Clayey Silt - tan, firm, moist, low to intermediate plasticity with clay layers between 1.5 m to 1.9 m	22					
2.0			36					
2.1			22					
2.5		<ul style="list-style-type: none"> Frost present to 1.5 m No water seepage or sloughing observed during or upon completion of drilling Testhole was terminated at 2.1 m 						

TESTHOLE TH6



Project Name: City of Winnipeg 2009 Street Renewal Program
Client: KGS Group
Site: Ashburn Street, Sargent Ave to Wellington Ave
Testhole Location: Southbound lane, In line with property line of 1228 / 1230 Ashburn St.

Date Drilled: January 21, 2009
Depth of Testhole: 2.1 m
Logged by: Jeff Brant

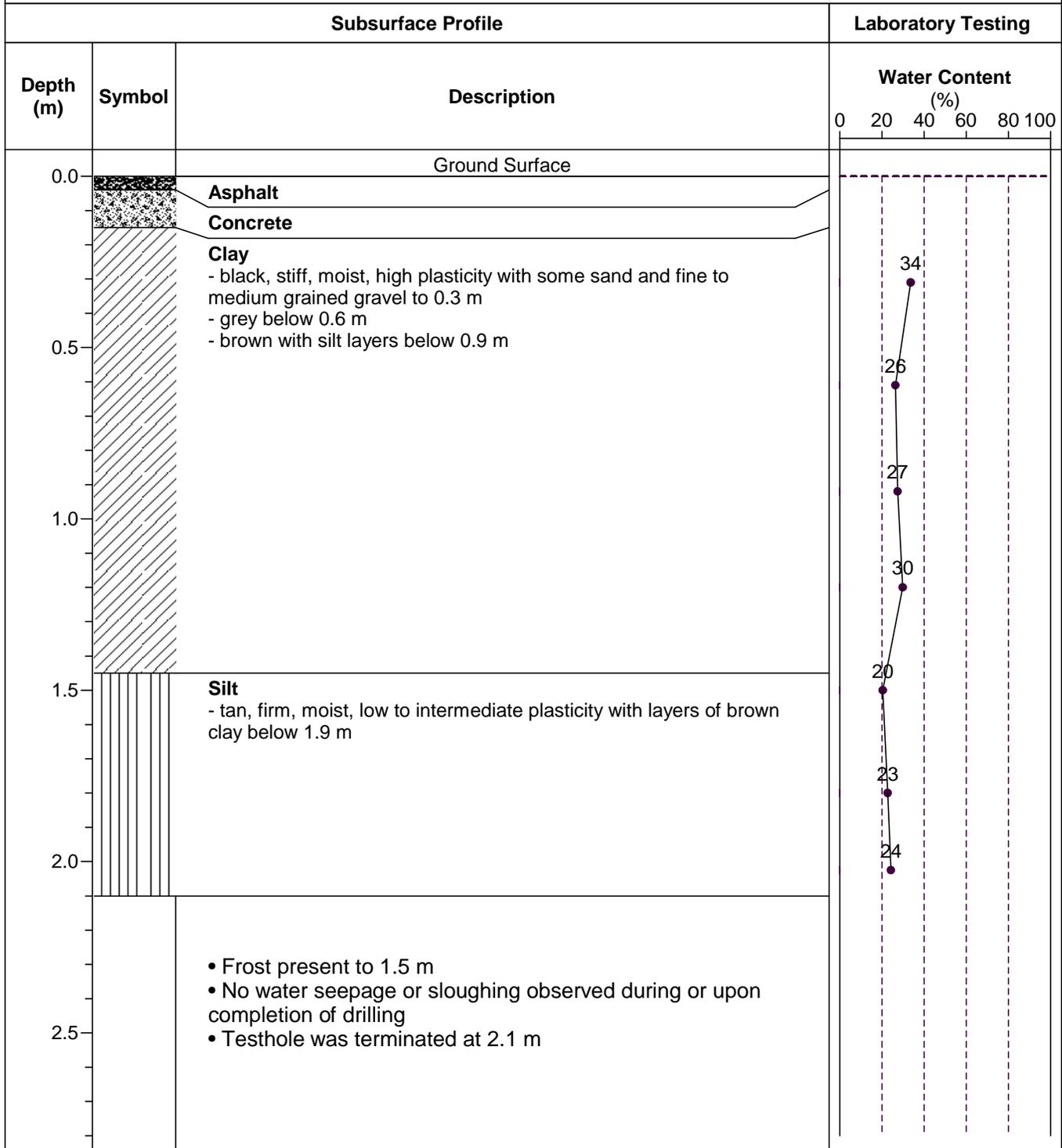


TESTHOLE TH7



Project Name: City of Winnipeg 2009 Street Renewal Program
 Client: KGS Group
 Site: Ashburn Street, Sargent Ave to Wellington Ave
 Testhole Location: Northbound lane, In line with property line of 1233 / 1237 Ashburn St.

Date Drilled: January 21, 2009
 Depth of Testhole: 2.1 m
 Logged by: Jeff Brant





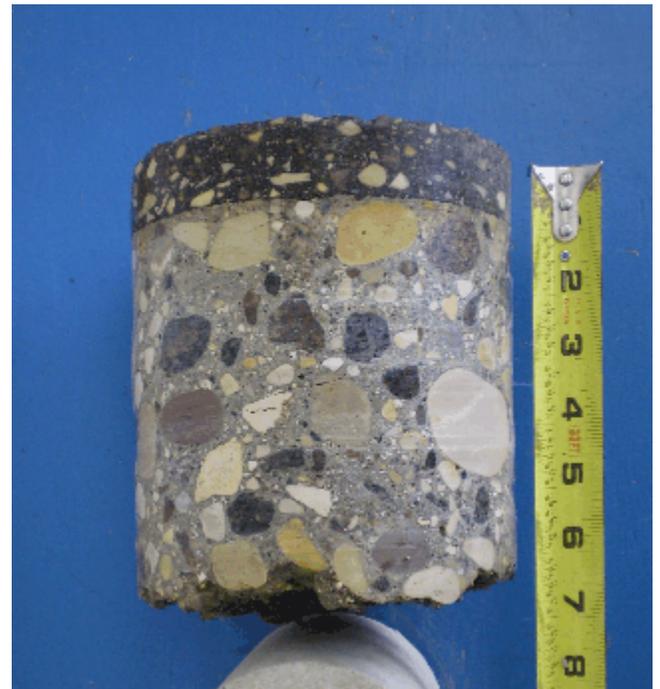
Testhole TH1



Testhole TH2



Testhole TH3



Testhole TH4



Testhole TH5



Testhole TH6



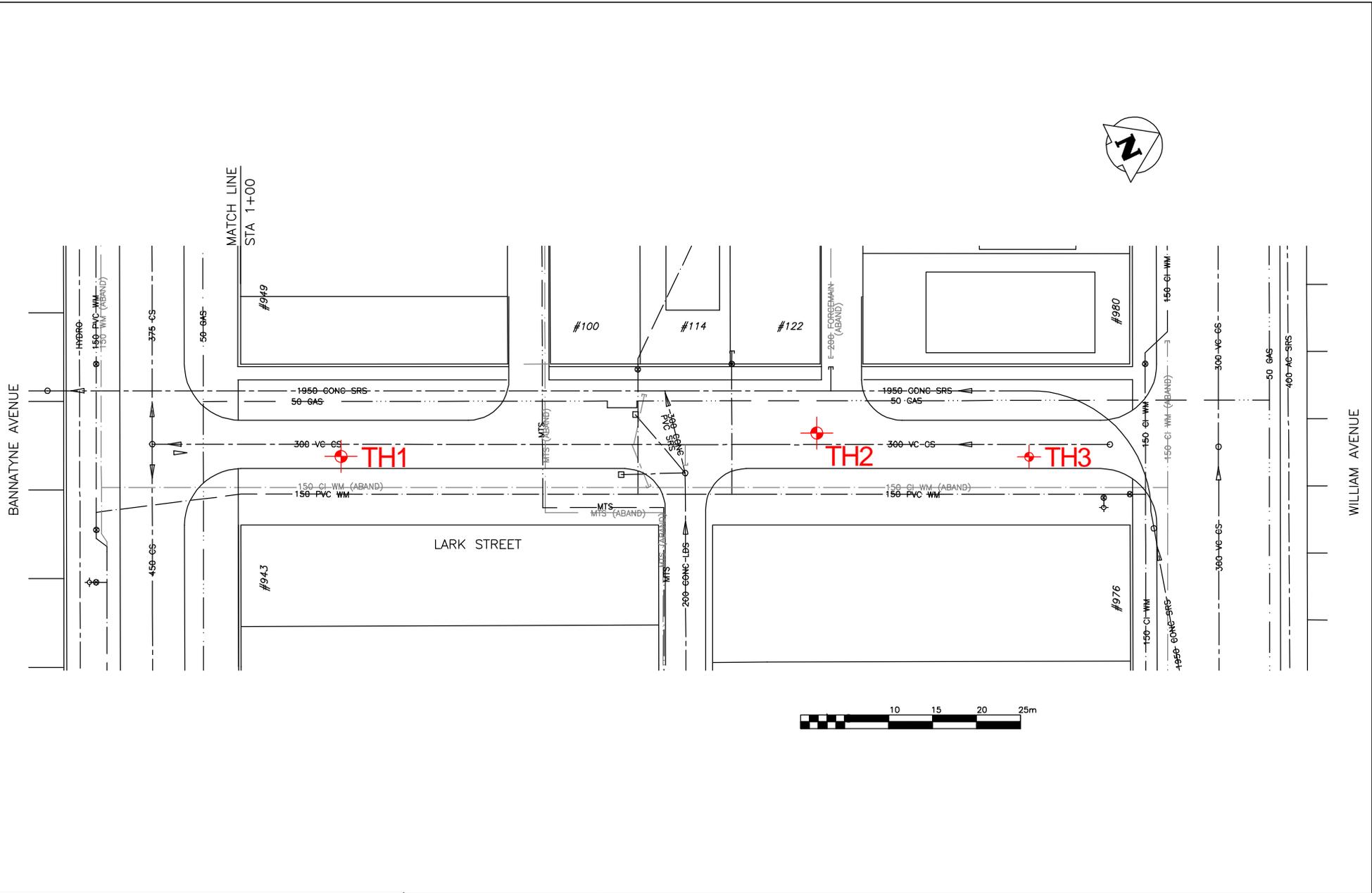
Testhole TH7

**LARK STREET
BANNATYNE AVENUE TO WILLIAM AVENUE
CITY OF WINNIPEG 2009 STREET RENEWAL PROGRAM**

Prepared for
KGS GROUP INC.
3rd FLOOR - 865 WAVERLEY STREET
WINNIPEG, MANITOBA
R3T 5P4

Prepared by
THE NATIONAL TESTING LABORATORIES LIMITED
199 HENLOW BAY
WINNIPEG, MANITOBA
R3Y 1G4

March 16, 2009



**THE
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Established in 1923

Project No.:KGS-862

Drawn by: GL

Figure: 1

Testhole Location Plan
Lark Street

Date: Feb. 26, 2009

Reviewed by: DF

Scale: NTS

Bannatyne Avenue to William Avenue
2009 City of Winnipeg Street Renewal

TESTHOLE TH1



Project Name: City of Winnipeg 2009 Street Renewal Program

Date Drilled: January 27, 2009

Client: KGS Group Inc.

Depth of Testhole: 2.1 m

Site: Lark Street, Bannatyne Ave. to William Ave.

Logged by: Kurtis Kulchyski

Testhole Location: N bound lane, 11.5 m N of the S property line of 943 Bannatyne Ave., 1.3 m from curb

Subsurface Profile			Laboratory Testing					
Depth (m)	Symbol	Description	Water Content (%)		Gravel (%)	Sand (%)	Silt (%)	Clay (%)
			PL	LL				
0.0		Ground Surface						
		Asphalt						
		Concrete						
0.5		Clay -black, stiff, moist, high plasticity -brown at 0.5 m -layer of silt at 0.8 m						
1.0		Silt -tan, firm, moist, low plasticity						
1.5								
2.0								
2.5		<ul style="list-style-type: none"> Frost present to 1.4 m No water seepage or sloughing observed during or upon completion of drilling Testhole was terminated at 2.1 m 						

Depth (m)	Water Content (%)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)
0.0					
0.5	35				
0.8	35				
1.0	28	0	3.2	25.4	71.4
1.2	27				
1.5	21				
1.8	20				
2.1	21				

TESTHOLE TH2



Project Name: City of Winnipeg 2009 Street Renewal Program
 Client: KGS Group Inc.
 Site: Lark Street, Bannatyne Ave. to William Ave.
 Testhole Location: Southbound lane, in line with north property line of 122 Lark St., 1.3 m from curb

Date Drilled: January 27, 2009
 Depth of Testhole: 2.1 m
 Logged by: Kurtis Kulchyski

Subsurface Profile			Laboratory Testing					
Depth (m)	Symbol	Description	Water Content (%)		Gravel (%)	Sand (%)	Silt (%)	Clay (%)
			PL	LL				
0.0		Ground Surface						
		Asphalt						
		Concrete						
0.5		Clay -black, stiff, moist high plasticity, with layers of silt						
1.0		Silt -grey/tan, firm, moist, low plasticity -tan below 0.8 m						
1.5		Clay -brown, stiff, moist, high plasticity						
2.0								
2.5		<ul style="list-style-type: none"> • Frost present to 1.4 m • No water seepage or sloughing observed during or upon completion of drilling • Testhole was terminated at 2.1 m 						

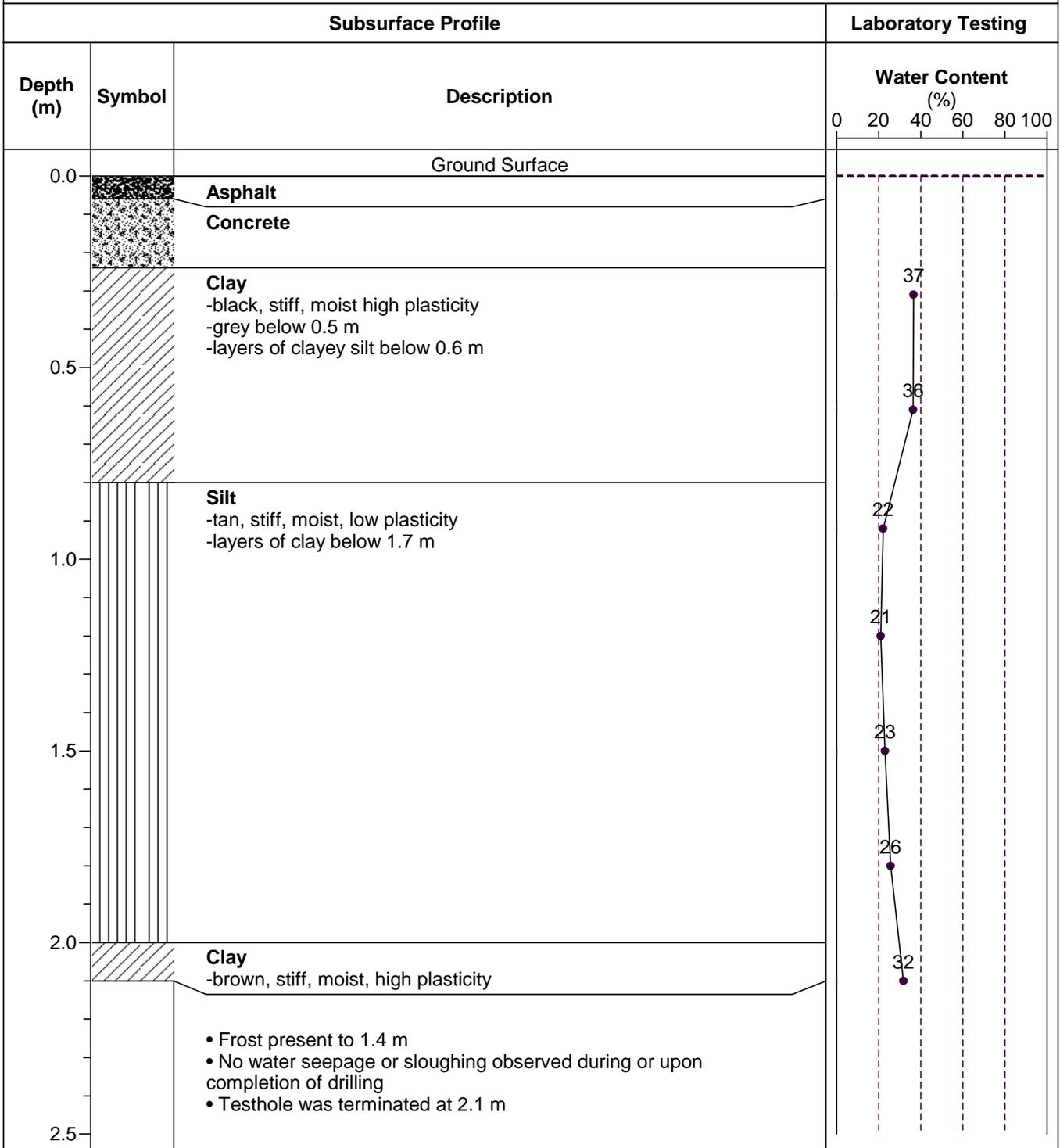
Water Content (%)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)
26				
24				
23	0	6.0	73.6	20.4
22				
38				
36				
46				

TESTHOLE TH3



Project Name: City of Winnipeg 2009 Street Renewal Program
 Client: KGS Group Inc.
 Site: Lark Street, Bannatyne Ave. to William Ave.
 Testhole Location: Northbound lane, 11 m S of the N property line of 976 William Ave., 1.3 m from curb

Date Drilled: January 27, 2009
 Depth of Testhole: 2.1 m
 Logged by: Kurtis Kulchyski





Testhole TH1



Testhole TH2



Testhole TH3

**PACIFIC AVENUE
ELLEN STREET TO PRINCESS STREET
CITY OF WINNIPEG 2009 STREET RENEWAL PROGRAM**

Prepared for
KGS GROUP
3RD FLOOR, 865 WAVERLEY STREET
WINNIPEG, MANITOBA
R3T 5P4

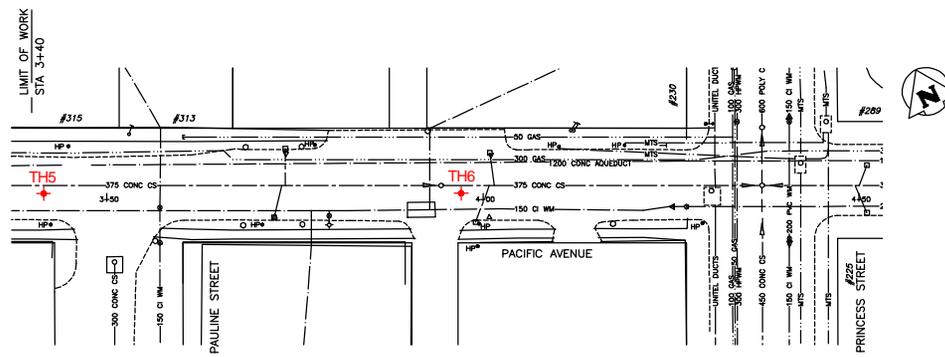
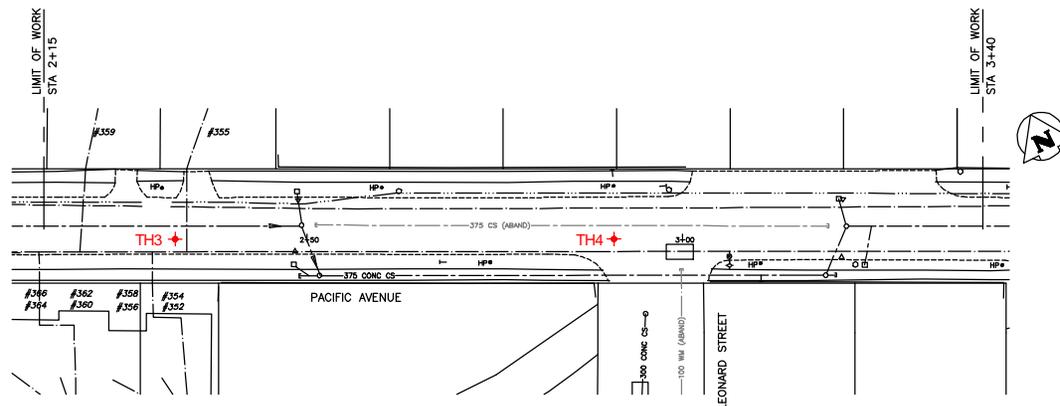
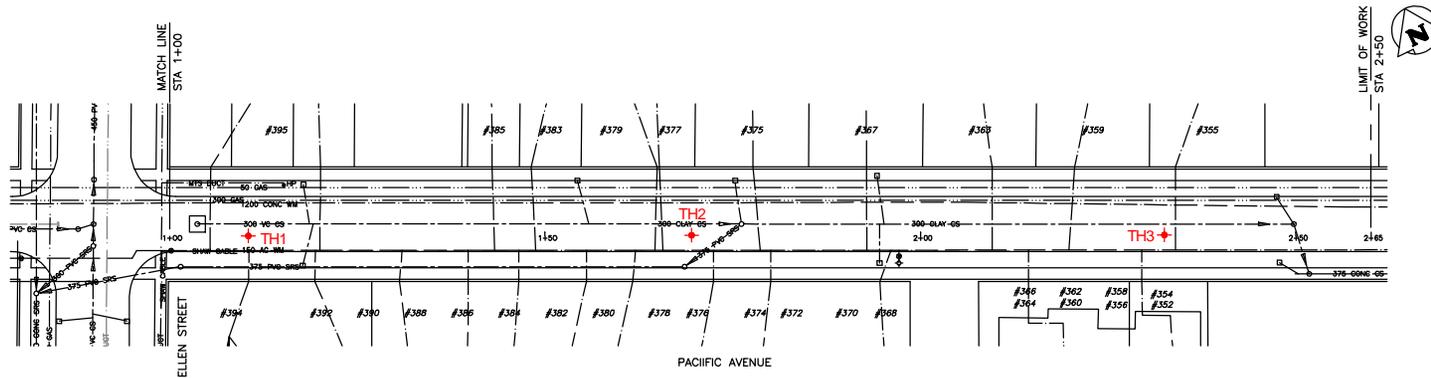
Prepared by
THE NATIONAL TESTING LABORATORIES LIMITED
199 HENLOW BAY
WINNIPEG, MANITOBA
R3Y 1G4

March 16, 2009

**Pacific Avenue
Ellen Street to Princess Street
City of Winnipeg 2009 Street Renewal Program**

Testhole ID	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 Index
TH1	Eastbound lane At the property line between 392 and 394 Pacific Ave. 2.0 m from the south curb	Asphalt / Concrete	64 / 136	-	-	-	-	-	-	-	-	-	-	-	-
TH2	Eastbound lane At the property line between 375 and 377 Pacific Ave. 2.0 m from the south curb	Asphalt / Concrete	70 / 145	-	-	Clay	0.9	29	0.0	3.7	25.5	70.8	81	20	61
TH3	Eastbound lane 2 m east of the property line between 355 and 359 Pacific Ave. 2.0 m from the south curb	Asphalt / Concrete	50 / 220	-	-	-	-	-	-	-	-	-	-	-	-
TH4	Eastbound lane 45 m east of the east property line of 355 Pacific Ave. 2.0 m from the south curb	Asphalt / Concrete	220 / 80	Crushed Limestone	95	-	-	-	-	-	-	-	-	-	-
TH5	Eastbound lane 4 m west of west curb of Paulin St. 3.5 m from the south curb	Asphalt / Concrete	210 / 135	Crushed Limestone	120	-	-	-	-	-	-	-	-	-	-
TH6	Eastbound lane 30 m west of the east property line of 230 Princess St. 3.5 m from the south curb	Asphalt / Concrete	220 / 105	Crushed Limestone	25	Silty clay	0.9	28	0.0	2.3	48.8	48.9	46	18	28

Note: Based upon particle size analysis, the soil sample from Testhole TH6 is classified as silty clay. Visual examination of soil samples from the same stratigraphic layer indicated the silt content increased with depth and therefore, the soil has been classified as a clayey silt on the testhole logs.



THE NATIONAL TESTING LABORATORIES LIMITED
Established in 1923

Project No.:KGS-863

Drawn by: KK

Figure: 1

Testhole Location Plan
Pacific Avenue

Date: Feb 23, 2009

Reviewed by: DF

Scale: NTS

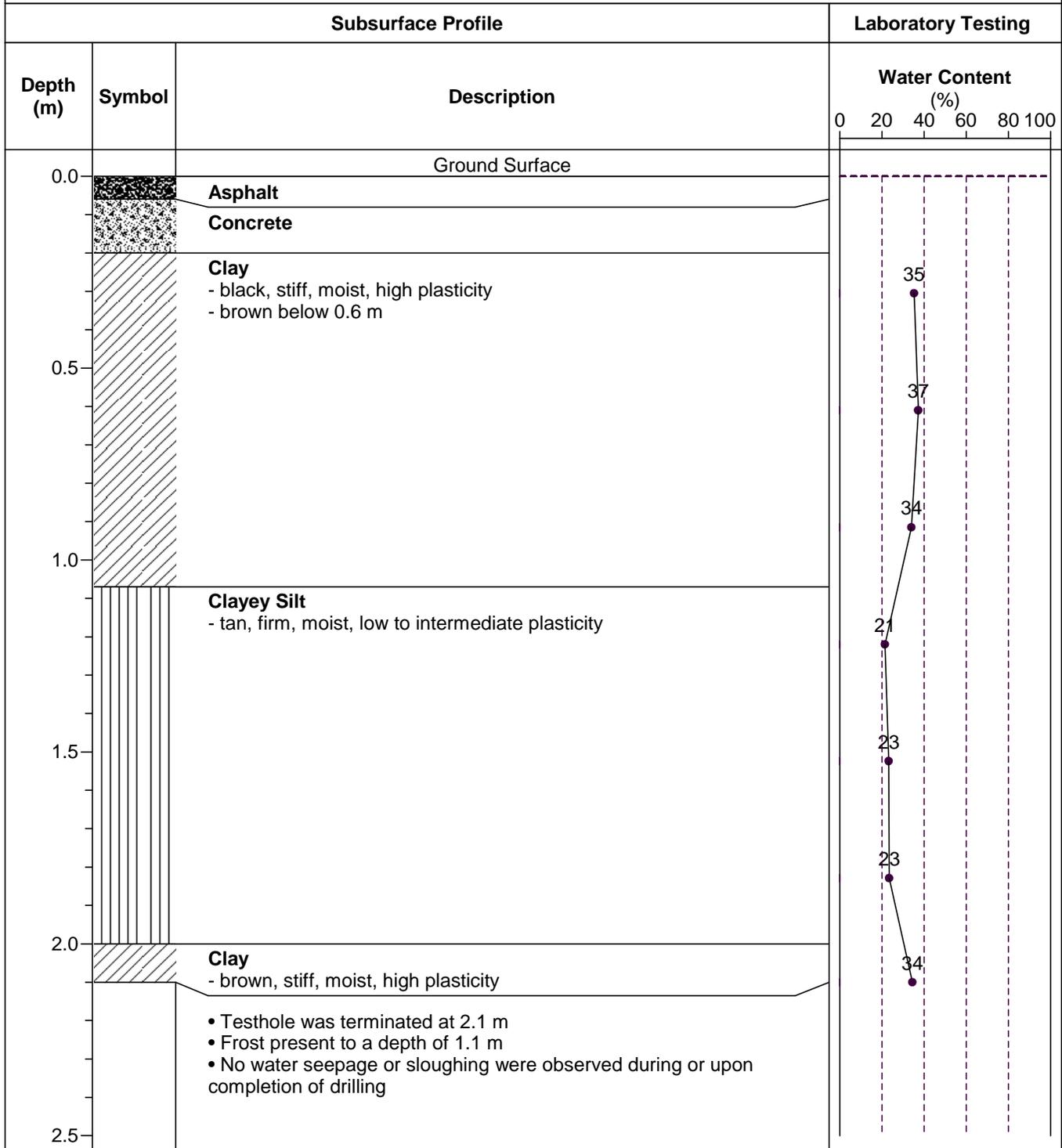
Ellen Street to Princess Street
City of Winnipeg 2009 Street Renewal Program

TESTHOLE TH1



Project Name: City of Winnipeg 2009 Street Renewal Program
Client: KGS Group Inc.
Site: Pacific Avenue, Ellen Street to Princess Street
Testhole Location: Eastbound lane, In line with prop. line of 392 / 394 Pacific Ave., 2.0 m from curb

Date Drilled: January 27, 2009
Depth of Testhole: 2.1 m
Logged by: Kurtis Kulchyski



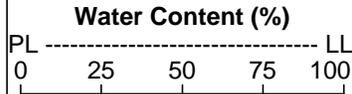
TESTHOLE TH2



Project Name: City of Winnipeg 2009 Street Renewal Program
 Client: KGS Group Inc.
 Site: Pacific Avenue, Ellen Street to Princess Street
 Testhole Location: Eastbound lane, In line with prop. line of 375 / 377 Pacific Ave., 2.0 m from curb

Date Drilled: January 27, 2009
 Depth of Testhole: 2.1 m
 Logged by: Kurtis Kulchyski

Subsurface Profile			Laboratory Testing							
Depth (m)	Symbol	Description	Water Content (%)				Gravel (%)	Sand (%)	Silt (%)	Clay (%)
			PL	LL						
0.0		Ground Surface								
		Asphalt								
		Concrete								
		Clay - black, stiff, moist, high plasticity - brown below 0.6 m - layers of silt below 0.8 m								
0.5										
1.0							0	3.7	25.5	70.8
		Clayey Silt - tan, firm, moist, low to intermediate plasticity - layers of clay below 1.4 m								
1.5										
2.0		Clay - brown, stiff, moist, high plasticity								
		<ul style="list-style-type: none"> • Testhole was terminated at 2.1 m • Frost present to a depth of 1.7 m • No water seepage or sloughing were observed during or upon completion of drilling 								
2.5										

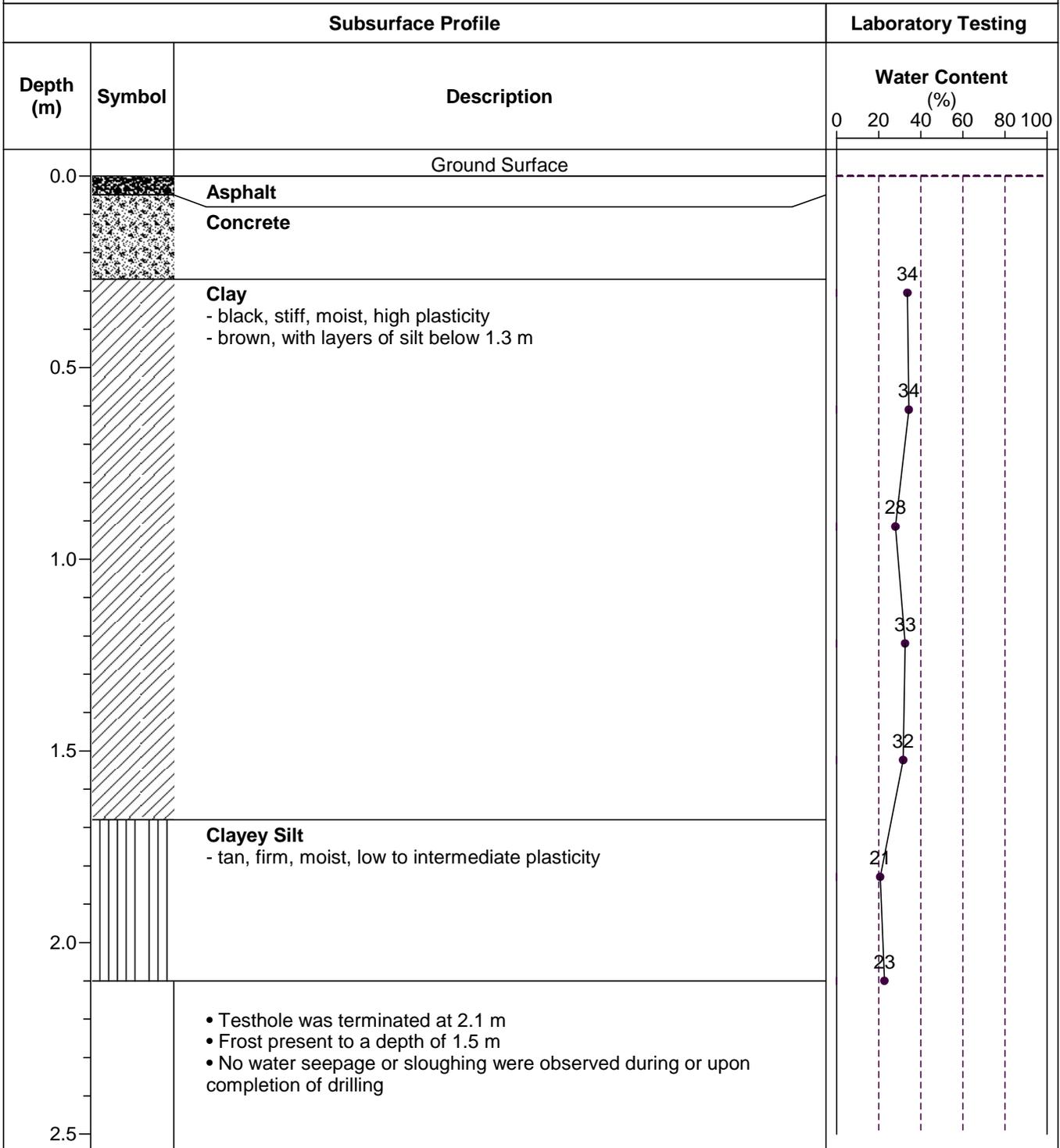


TESTHOLE TH3



Project Name: City of Winnipeg 2009 Street Renewal Program
 Client: KGS Group Inc.
 Site: Pacific Avenue, Ellen Street to Princess Street
 Testhole Location: Eastbound lane, 2 m east of prop. line of 355 / 359 Pacific Ave., 2.0 m from curb

Date Drilled: January 27, 2009
 Depth of Testhole: 2.1 m
 Logged by: Kurtis Kulchyski

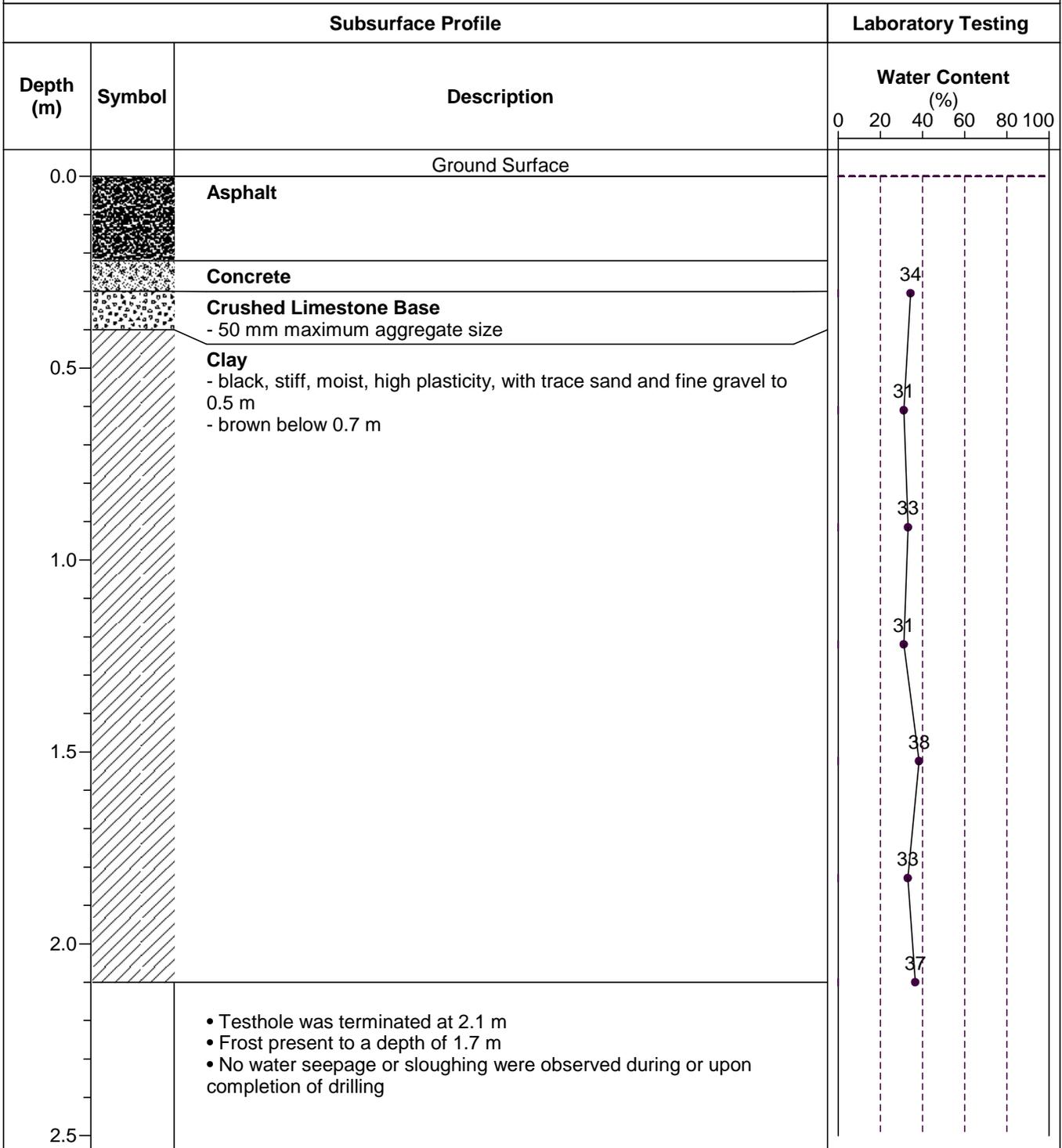


TESTHOLE TH4



Project Name: City of Winnipeg 2009 Street Renewal Program
 Client: KGS Group Inc.
 Site: Pacific Avenue, Ellen Street to Princess Street
 Testhole Location: Eastbound lane, 45 m east of east prop. line of 355 Pacific Ave., 2.0 m from curb

Date Drilled: January 27, 2009
 Depth of Testhole: 2.1 m
 Logged by: Kurtis Kulchyski

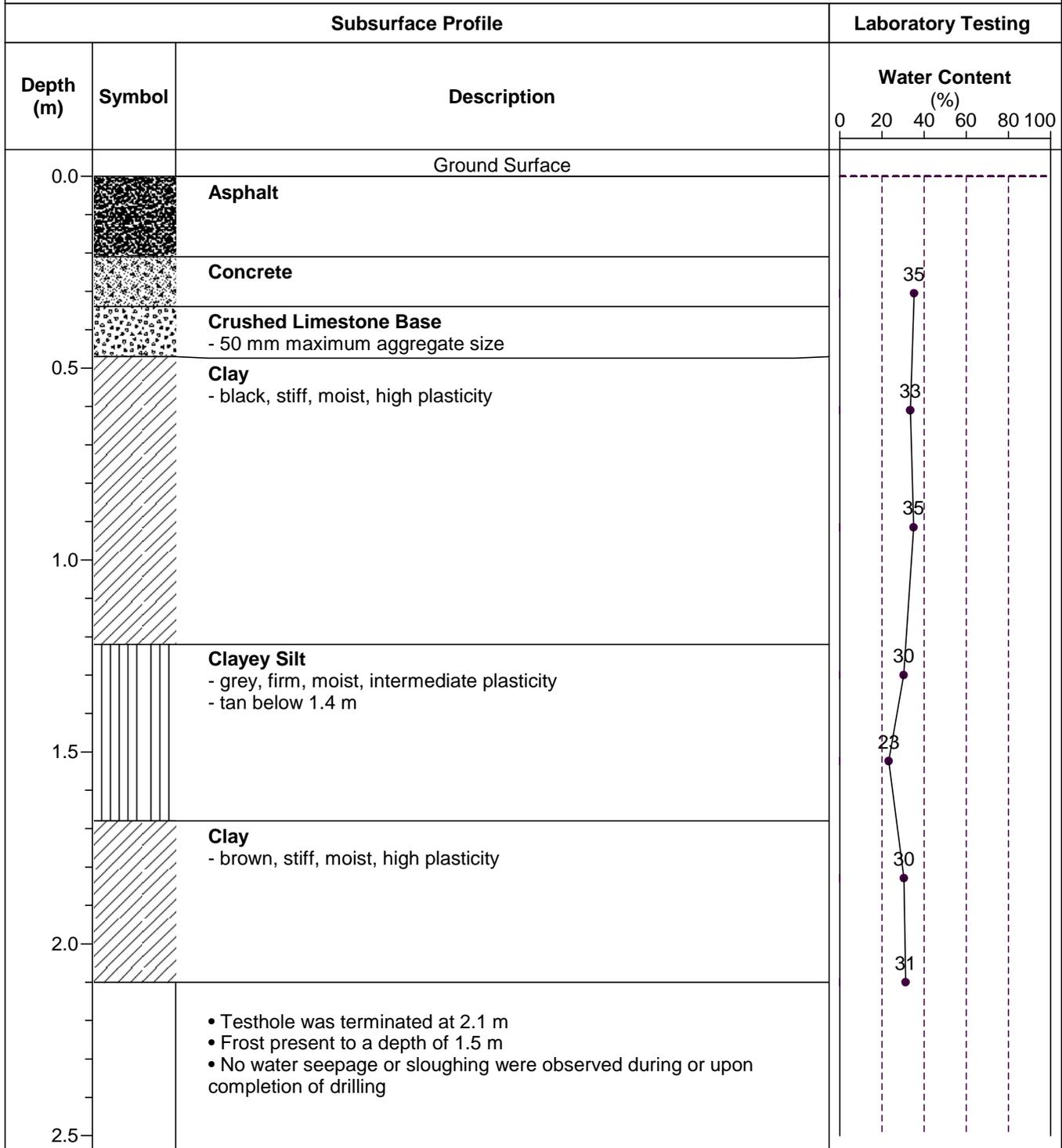


TESTHOLE TH5



Project Name: City of Winnipeg 2009 Street Renewal Program
 Client: KGS Group Inc.
 Site: Pacific Avenue, Ellen Street to Princess Street
 Testhole Location: Eastbound lane, 4 m west of west curb of Paulin St., 3.5 m from curb

Date Drilled: January 27, 2009
 Depth of Testhole: 2.1 m
 Logged by: Kurtis Kulchyski



TESTHOLE TH6



Project Name: 2009 City of Winnipeg Street Renewal Program
 Client: KGS Group Inc.
 Site: Pacific Avenue, between Ellen Street to Princess Street
 Testhole Location: Eastbound lane, 30 m west of east prop. line of 230 Princess St., 3.5 m from curb

Date Drilled: January 27, 2009
 Depth of Testhole: 2.1 m
 Logged by: Kurtis Kulchyski

Subsurface Profile			Laboratory Testing						
Depth (m)	Symbol	Description	Water Content (%)			Gravel (%)	Sand (%)	Silt (%)	Clay (%)
			PL	LL					
0.0		Ground Surface							
0.0 - 0.1		Asphalt							
0.1 - 0.2		Concrete							
0.2 - 0.4		Crushed Limestone Base - 50 mm maximum aggregate size							
0.4 - 1.0		Clay - black, stiff, moist, high plasticity - grey, with layers of silt below 0.8 m							
1.0 - 2.0		Clayey Silt - grey, firm, moist, intermediate plasticity - tan, low to intermediate plasticity below 1.1 m							
2.0 - 2.1		Clay - brown, stiff, moist, high plasticity							
2.1		<ul style="list-style-type: none"> • Testhole was terminated at 2.1 m • Frost present to a depth of 1.5 m • No water seepage or sloughing were observed during or upon completion of drilling 							

Depth (m)	Water Content (%)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)
0.2	23				
0.4	33				
1.0	28	0	2.3	48.8	48.9
1.2	24				
1.5	24				
1.8	22				
2.1	33				



Testhole TH1



Testhole TH2



Testhole TH3



Testhole TH4



Testhole TH5



Testhole TH6