

GEOTECHNICAL INVESTIGATION REPORT

LOGAN AVENUE

TRINITY STREET TO REITTA STREET

2004 STREET RENEWAL PROGRAM

GEOTECHNICAL INVESTIGATION



THE CITY OF WINNIPEG
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 TECHNOLOGY SERVICES BRANCH
 108 - 1155 PACIFIC AVE



2004 REGIONAL STREET RENEWAL PROGRAM
 TEST HOLE LOCATION SKETCH - LOGAN AV
 (TRINITY ST - REITTA ST)

SEWER
 WATER

H:\GISMAPS\MISC\BOREHOLE_LOCATIONS_NA_NOV03.DWG

**City of Winnipeg
2004 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	Logan Ave.	Asphalt/Concrete	140/215	Limestone	545											
2	Logan Ave.	Asphalt/Concrete	140/210	Granular	100	Clayey silt	1.2	24.4	0.0	3.2	58.5	38.3	42	14	28	
3	Logan Ave.	Asphalt/Concrete	90/150	Granular	60											
4	Logan Ave.	Asphalt/Concrete	140/140	Granular	180											
5	Logan Ave.	Asphalt/Concrete	150/110	Granular	200											
6	Logan Ave.	Asphalt/Concrete	180/130	Granular	70	Clay	1.8	28.6	0.0	4.5	27.4	68.1	59	17	42	

TESTHOLE 121-1



Project Name: 2004 City of Winnipeg Street Renewal Program

Date Drilled: January 20, 2004

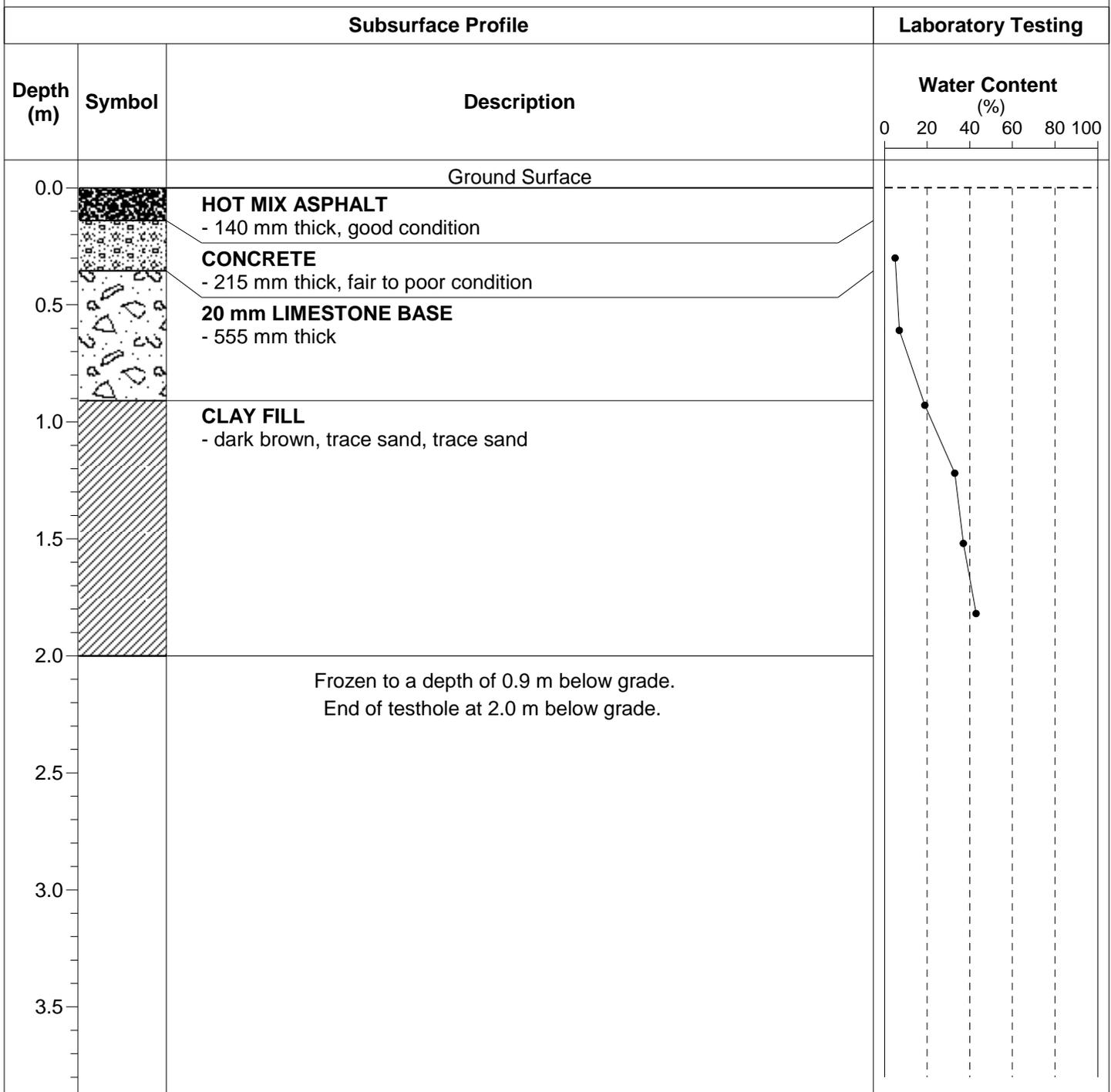
Client: UMA Engineering Ltd.

Depth of Testhole: 2.0 m

Site: Logan Avenue

Logged by: Robert Hochkievich

Testhole Location: 2 m S of curb, in line with railroad sign at 823 Logan Ave.



TESTHOLE 121-2



Project Name: 2004 City of Winnipeg Street Renewal Program
 Client: UMA Engineering Ltd.
 Site: Logan Avenue
 Testhole Location: 1.5 m N of curb, 10 m W of Dorothy St.

Date Drilled: January 16, 2004
 Depth of Testhole: 3.5 m
 Logged by: Robert Hochkievich

Subsurface Profile			Laboratory Testing					
Depth (m)	Symbol	Description	Moisture Content (%)		Gravel (%)	Sand (%)	Silt (%)	Clay (%)
			PL	LL				
0.0		Ground Surface						
		HOT MIX ASPHALT - 140 mm thick, good condition						
		CONCRETE - 210 mm thick, poor condition						
0.5		20 mm GRANULAR BASE - 100 mm thick, sand and gravel						
		CLAY FILL - dark brown, trace sand, trace gravel						
1.0		CLAYEY SILT - tan, damp, loose, low plasticity, with clay			0.0	3.2	58.5	38.3
1.5		CLAY - brown, moist, firm, high plasticity, trace silt inclusions						
2.0								
2.5								
3.0								
3.5		Frozen to a depth of 0.9 m below grade. End of testhole at 3.5 m below grade.						

TESTHOLE 121-3



Project Name: 2004 City of Winnipeg Street Renewal Program

Date Drilled: January 20, 2004

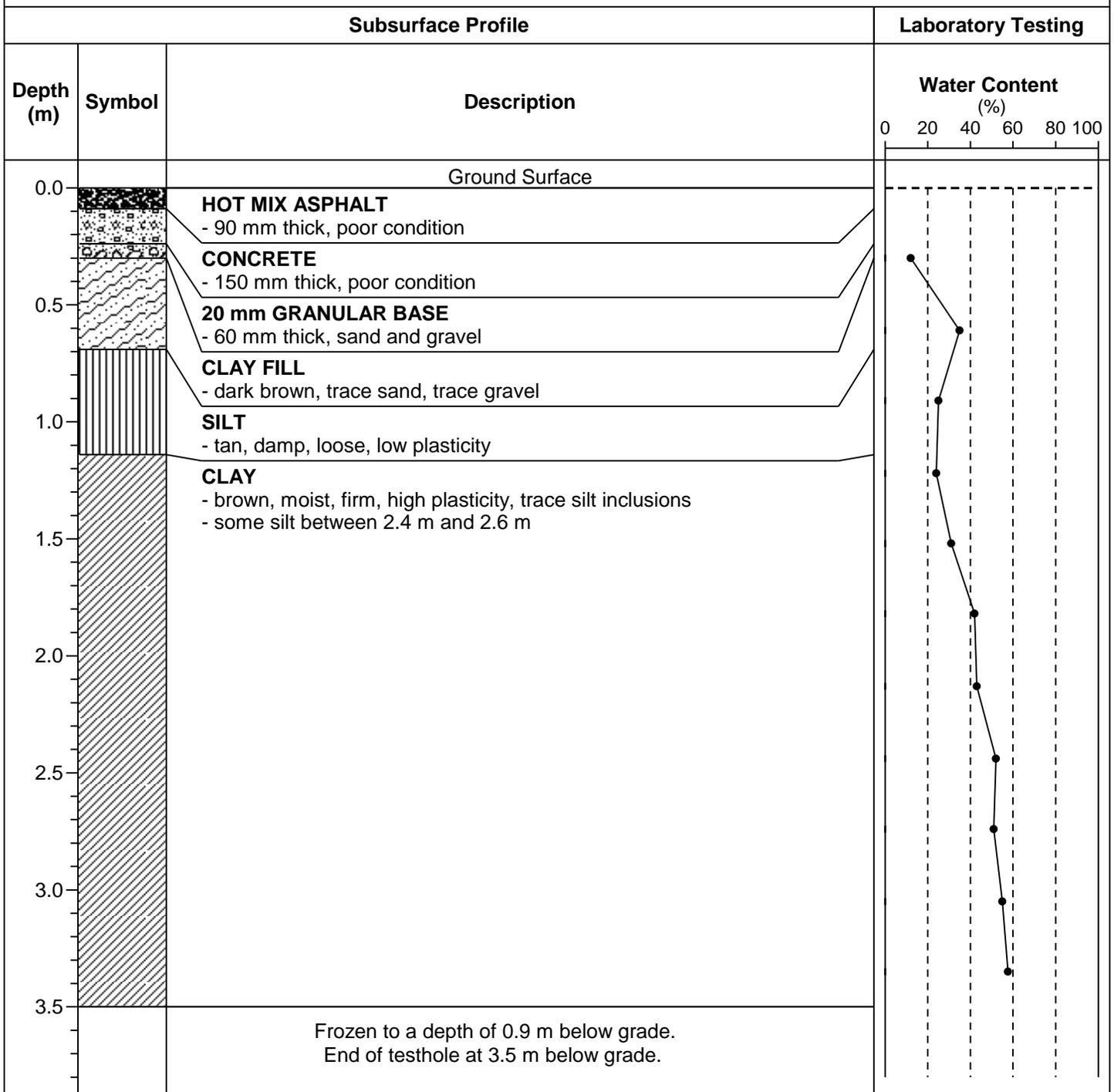
Client: UMA Engineering Ltd.

Depth of Testhole: 3.5 m

Site: Logan Avenue

Logged by: Robert Hochkievich

Testhole Location: 2 m S of curb, in line with west building line of 901A Logan Ave.



TESTHOLE 121-4



Project Name: 2004 City of Winnipeg Street Renewal Program

Date Drilled: January 16, 2004

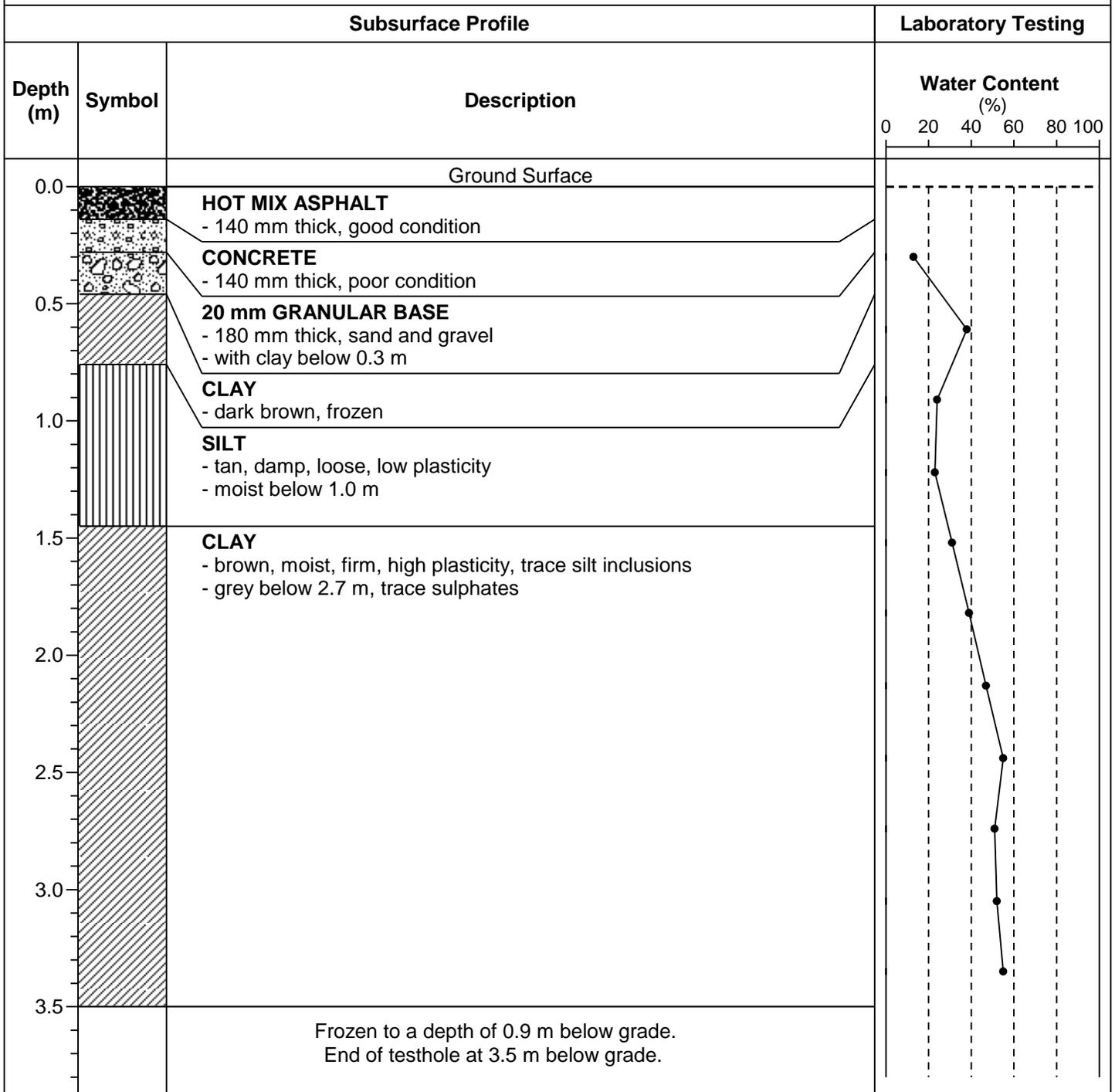
Client: UMA Engineering Ltd.

Depth of Testhole: 3.5 m

Site: Logan Avenue

Logged by: Robert Hochkievich

Testhole Location: 1.5 m N of curb, 0.5 m E of 819 Logan Ave. west building line



TESTHOLE 121-5



Project Name: 2004 City of Winnipeg Street Renewal Program

Date Drilled: January 20, 2004

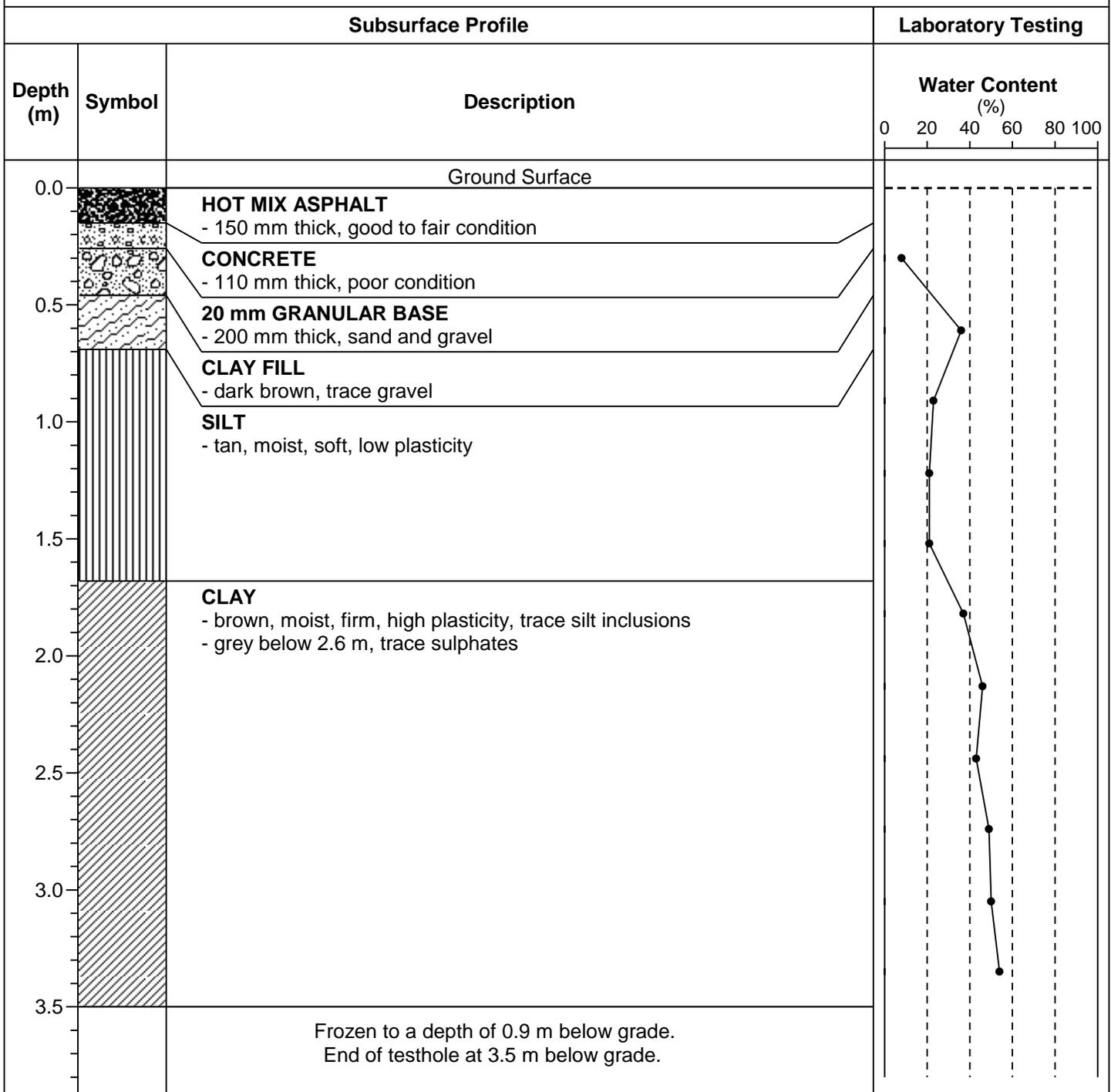
Client: UMA Engineering Ltd.

Depth of Testhole: 3.5 m

Site: Logan Avenue

Logged by: Robert Hochkievich

Testhole Location: 2 m S of curb, 3 m E of 799 Logan Ave. west building line

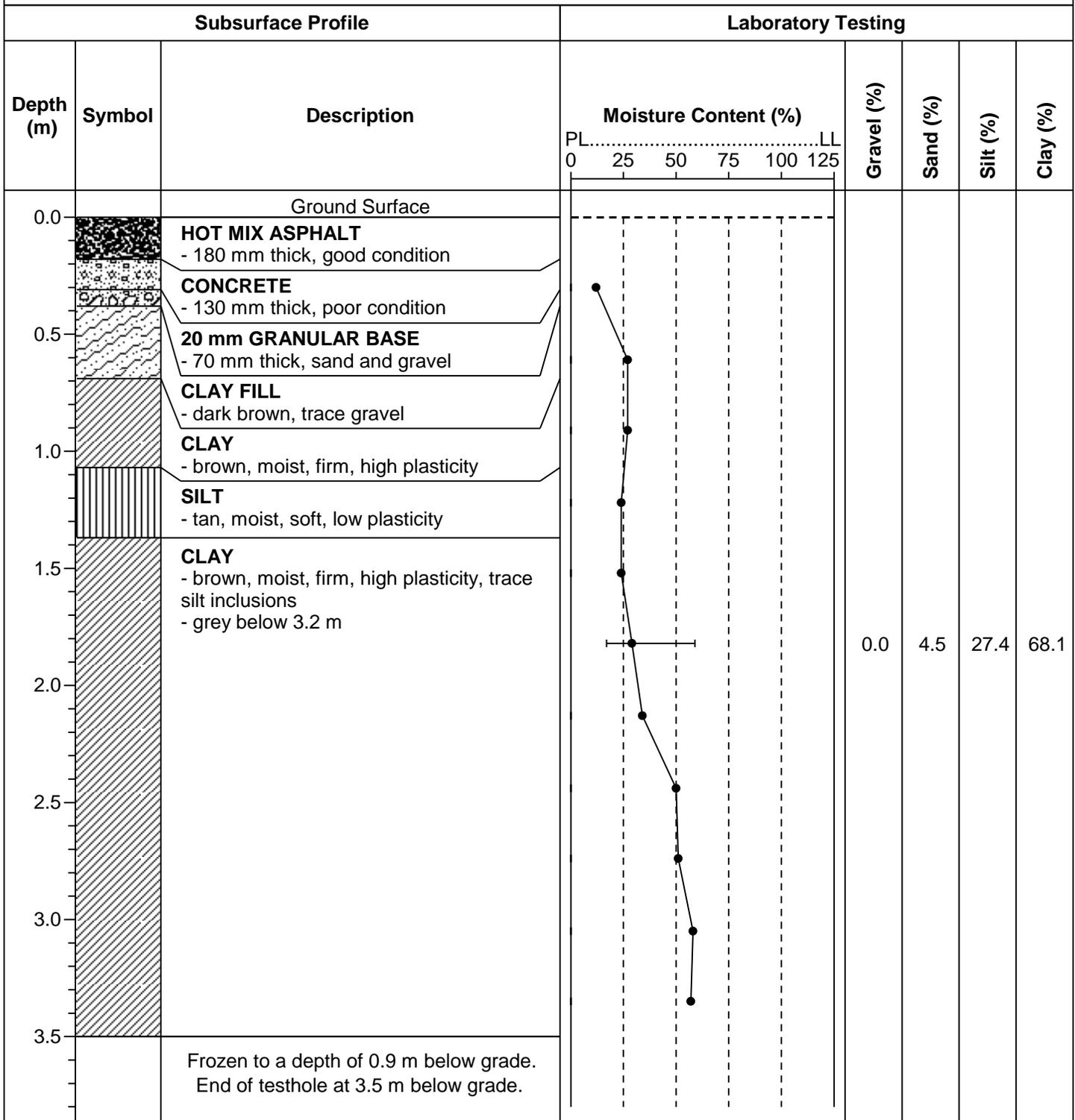


TESTHOLE 121-6



Project Name: 2004 City of Winnipeg Street Renewal Program
 Client: UMA Engineering Ltd.
 Site: Logan Avenue
 Testhole Location: 1.5 m N of curb, 15 m W of Reitta St.

Date Drilled: January 16, 2004
 Depth of Testhole: 3.5 m
 Logged by: Robert Hochkievich





TH1

TH2

LOGAN AVENUE (121)



TH3

TH4

LOGAN AVENUE (121)



TH6

TH5

LOGAN AVENUE (121)