

APPENDIX 'A'

GEOTECHNICAL REPORT

February 13, 2026

Project/File: 132501009

Ron Bruce
Stantec Consulting Ltd.
311 Portage Avenue
Winnipeg, Manitoba R3B 2B9

Good day Ron,

Reference: 2026 Local Street Renewal Program (26-R-10) - Geotechnical Investigation

Stantec Consulting Ltd. (Stantec) was retained to undertake a factual geotechnical investigation for the 2026 Local Street Renewal Program (26-R-10) in Winnipeg, Manitoba. Use of this report is subject to the Statement of General Conditions provided in **Appendix A**.

A coring and drilling program was conducted from January 20 to January 30, 2026. A total of 44 locations were investigated with pavement coring and/or subsurface geotechnical drilling. Pavement coring was performed by Stantec's geotechnical field technologist, and drilling services were provided by Paddock Drilling Ltd. under the supervision of Stantec's technologist. A Borehole Location Plan is provided in **Appendix B**.

1. Pavement Coring

A total of 44 pavement core samples were recovered to determine the in-place pavement thickness. The existing pavement thicknesses are summarized in **Table 1** below, and core photographs are provided in **Appendix C**.

2. Geotechnical Drilling

A total of 11 boreholes were investigated by geotechnical drilling. The boreholes were terminated at a depth of 2.0 m below the pavement, which resulted in borehole depths ranging from 2.1 to 2.2 m. Soil samples were obtained directly from the auger flights at depths of 0.6 m, 0.9 m, 1.2 m, 1.6 m, and 2.0 m from the bottom of the existing pavement. The testholes were examined for evidence of sloughing and groundwater seepage upon completion of drilling.

Reference: 2026 Local Street Renewal Program (26-R-10) - Geotechnical Investigation

The borehole records are provided in **Appendix D**. The soil classification used in the borehole records is as per ASTM D2487 – *Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)*.

3. Pavement Thicknesses

The existing pavement thicknesses are provided in the following table:

Table 1 – Pavement Thicknesses

Borehole No.	Street	Asphalt (mm)	Concrete (mm)	Total (mm)
204	Chancellor Drive	75	0	75
205		110	0	110
206		110	0	110
207		80	0	80
208		50	0	50
209	Kings Park Roads/Plot	45	0	45
210		60	0	60
211		75	0	75
212		55	0	55
213		65	0	65
214		50	0	50
215		60	0	60
216		60	0	60
217		80	0	80
218	Kings Drive	110	0	110
219		75	0	75
220		75	0	75
221		110	0	110
222		150	0	150
223		135	0	135
224		150	0	150
225		160	0	160
226		155	0	155

Reference: 2026 Local Street Renewal Program (26-R-10) - Geotechnical Investigation

Borehole No.	Street	Asphalt (mm)	Concrete (mm)	Total (mm)
227	Peacock Place	0	145	145
228		0	135	135
229		0	150	150
230	Carrigan Place	0	200	200
231		0	170	170
232		0	165	165
233		0	180	180
234	Alley (La Porte Dr/Le Marie St)	0	160	160
235		0	130	130
236		0	140	140
237		0	135	135
238		0	135	135
239		0	170	170
240		0	165	165
241	Alley (Dubois Pl/Lamirande Pl)	0	190	190
242		0	170	170
243		0	170	170
244		0	180	180
245		0	165	165
246		0	135	135
247		0	125	125

4. Laboratory Testing

Laboratory determination of moisture content (ASTM D2216) was conducted on all soil samples. The results are provided on the attached borehole records.

In addition, the following laboratory tests were conducted on select samples:

- ASTM D4318 - *Liquid Limit, Plastic Limit, and Plasticity Index of Soils*
- ASTM D7928 - *Particle-Size Distribution of Fine-Grained Soils Using The Sedimentation Analysis*
- ASTM D698 - *Laboratory Compaction Characteristics of Soil Using Standard Effort*
- ASTM D1883 - *California Bearing Ratio (CBR) of Laboratory-Compacted Soils*

Reference: 2026 Local Street Renewal Program (26-R-10) - Geotechnical Investigation

The CBR tests were performed on test specimens compacted to 95% of the maximum dry density under soaked conditions.

Prior to compressive strength testing, the concrete core samples were conditioned in water at room temperature for 48 hours.

The laboratory test reports are provided in **Appendix E**.

5. Closure

Please contact the undersigned if you have any questions regarding this report.

Regards,

Stantec Consulting Ltd.



Guillaume Beauce P.Eng.
Senior Associate
Geotechnical Engineer, Materials Testing Services
Phone: 204-928-7618
Mobile: 204-898-8290
guillaume.beauce@stantec.com



Jason Thompson C.E.T.
Principal – Manager, Materials Testing Services
Manitoba & Northwestern Ontario Operations
Phone: 204-928-4004
Mobile: 204-898-8290
jason.thompson@stantec.com

Attachment: Appendix A – Statement of General Conditions
Appendix B – Borehole Location Plan
Appendix C – Core Photographs
Appendix D – Borehole Records
Appendix E – Laboratory Test Reports

Appendix A

Statement of General Conditions

STATEMENT OF GENERAL CONDITIONS

USE OF THIS REPORT: This report has been prepared for the sole benefit of the Client or its agent and may not be used by any third party without the express written consent of Stantec and the Client. Any use which a third party makes of this report is the responsibility of such third party.

BASIS OF THE REPORT: The information, opinions, and/or recommendations made in this report are in accordance with Stantec's present understanding of the site-specific project as described by the Client. The applicability of these is restricted to the site conditions encountered at the time of the investigation or study. If the proposed site-specific project differs or is modified from what is described in this report or if the site conditions are altered, this report is no longer valid unless Stantec is requested by the Client to review and revise the report to reflect the differing or modified project specifics and/or the altered site conditions.

STANDARD OF CARE: Preparation of this report, and all associated work, was carried out in accordance with the normally accepted standard of care in the state or province of execution for the specific professional service provided to the Client. No other warranty is made.

INTERPRETATION OF SITE CONDITIONS: Soil, rock, or other material descriptions, and statements regarding their condition, made in this report are based on site conditions encountered by Stantec at the time of the work and at the specific testing and/or sampling locations. Classifications and statements of condition have been made in accordance with normally accepted practices which are judgmental in nature; no specific description should be considered exact, but rather reflective of the anticipated material behavior. Extrapolation of in situ conditions can only be made to some limited extent beyond the sampling or test points. The extent depends on variability of the soil, rock, and groundwater conditions as influenced by geological processes, construction activity, and site use.

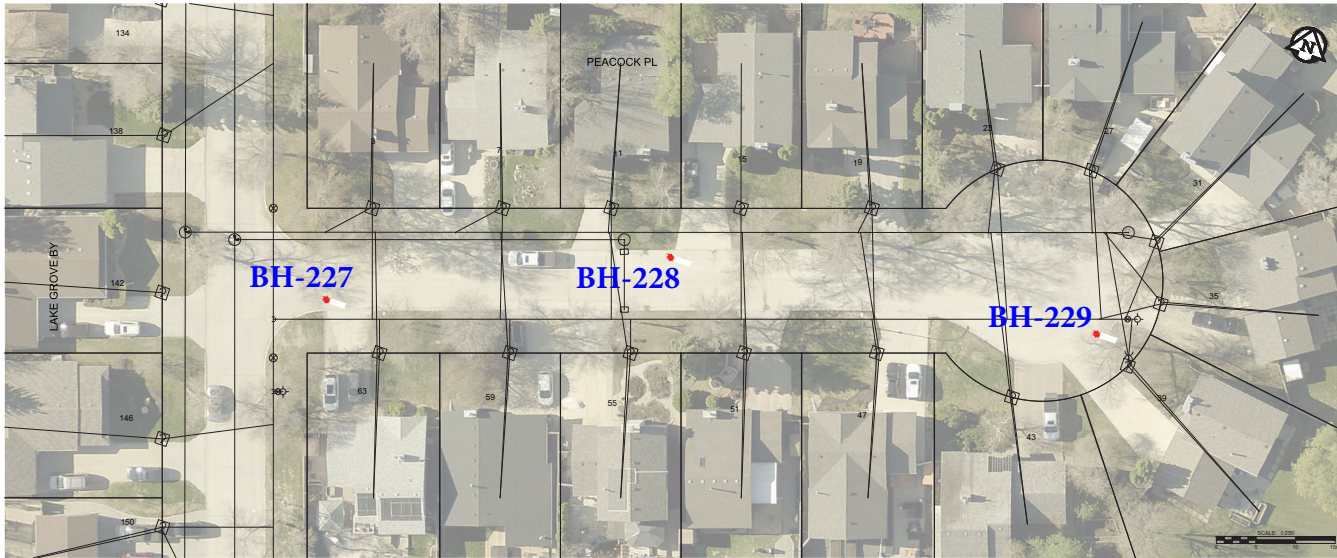
VARYING OR UNEXPECTED CONDITIONS: Should any site or subsurface conditions be encountered that are different from those described in this report or encountered at the test locations, Stantec must be notified immediately to assess if the varying or unexpected conditions are substantial and if reassessments of the report conclusions or recommendations are required. Stantec will not be responsible to any party for damages incurred as a result of failing to notify Stantec that differing site or sub-surface conditions are present upon becoming aware of such conditions.

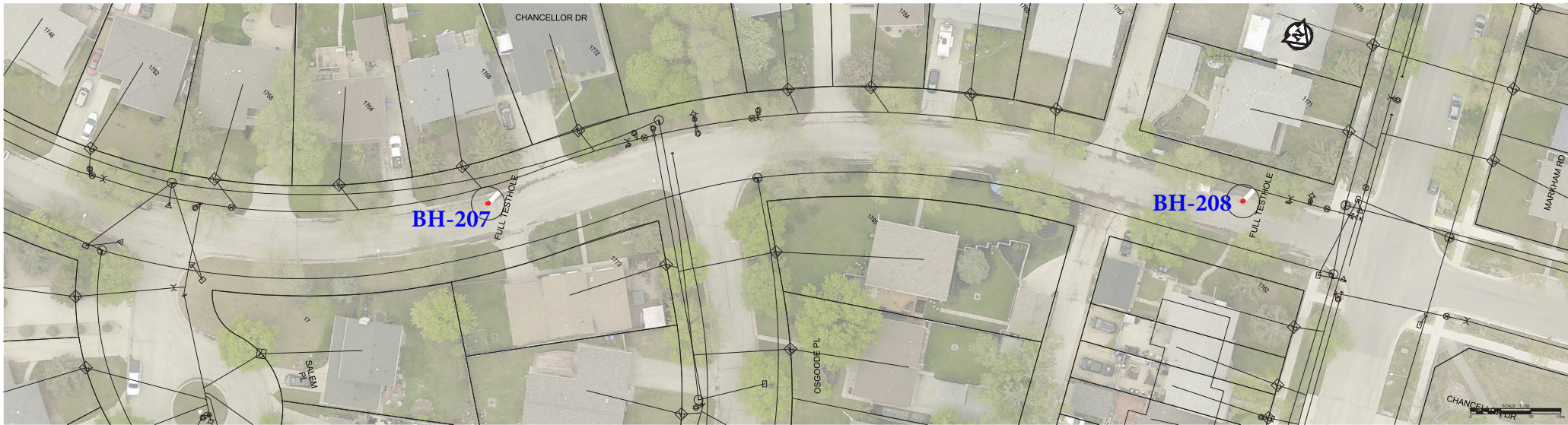
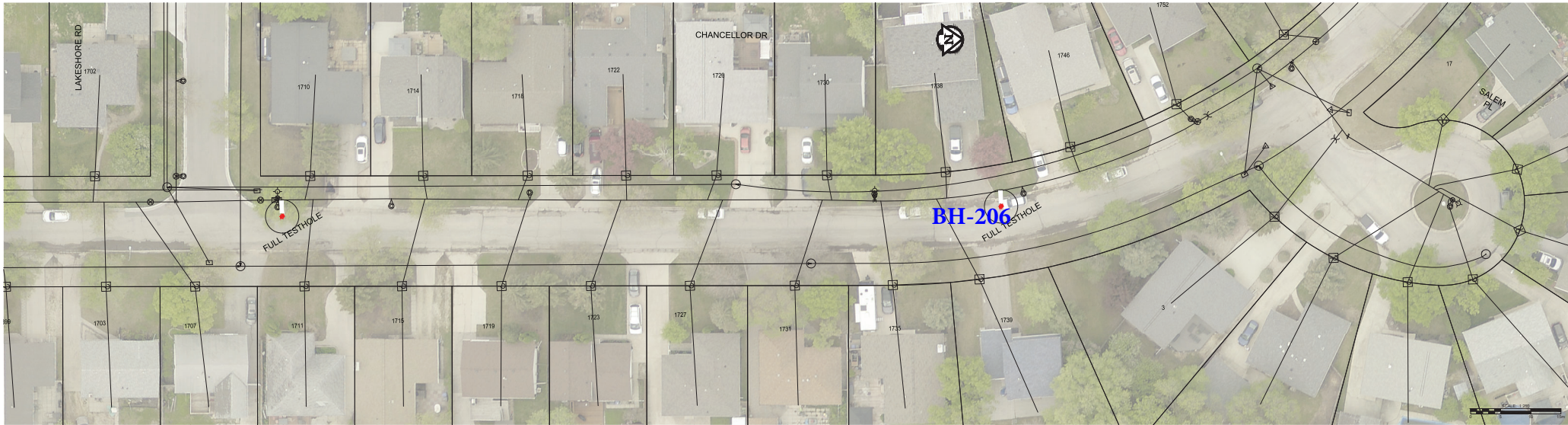
PLANNING, DESIGN, OR CONSTRUCTION: Development or design plans and specifications should be reviewed by Stantec, sufficiently ahead of initiating the next project stage (property acquisition, tender, construction, etc.), to confirm that this report completely addresses the elaborated project specifics and that the contents of this report have been properly interpreted. Specialty quality assurance services (field observations and testing) during construction are a necessary part of the evaluation of sub-subsurface conditions and site preparation works. Site work relating to the recommendations included in this report should only be carried out in the presence of a qualified geotechnical engineer; Stantec cannot be responsible for site work carried out without being present.

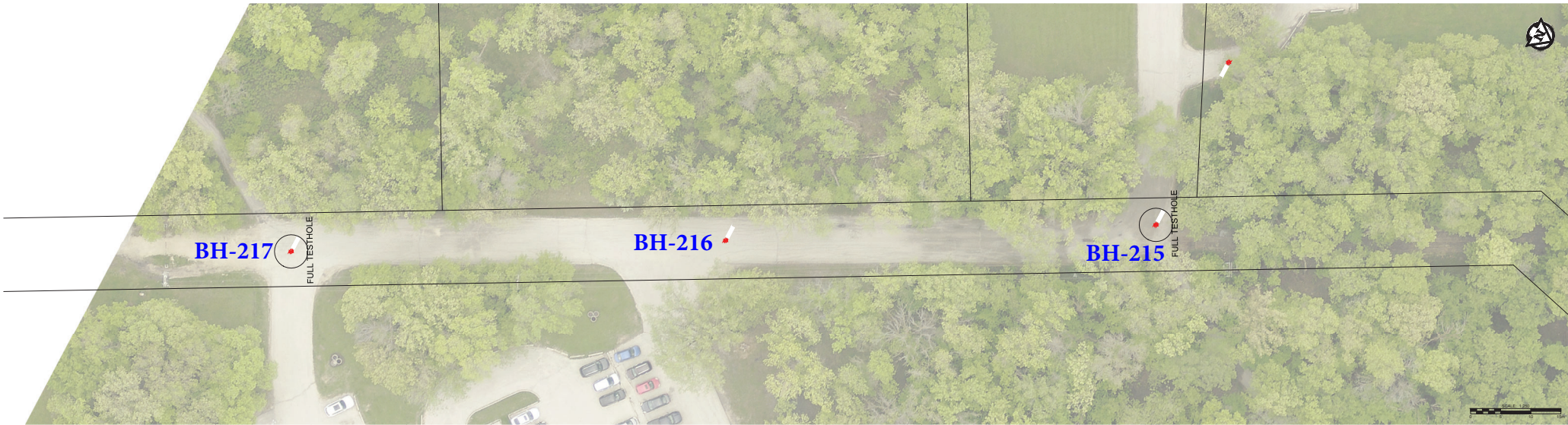


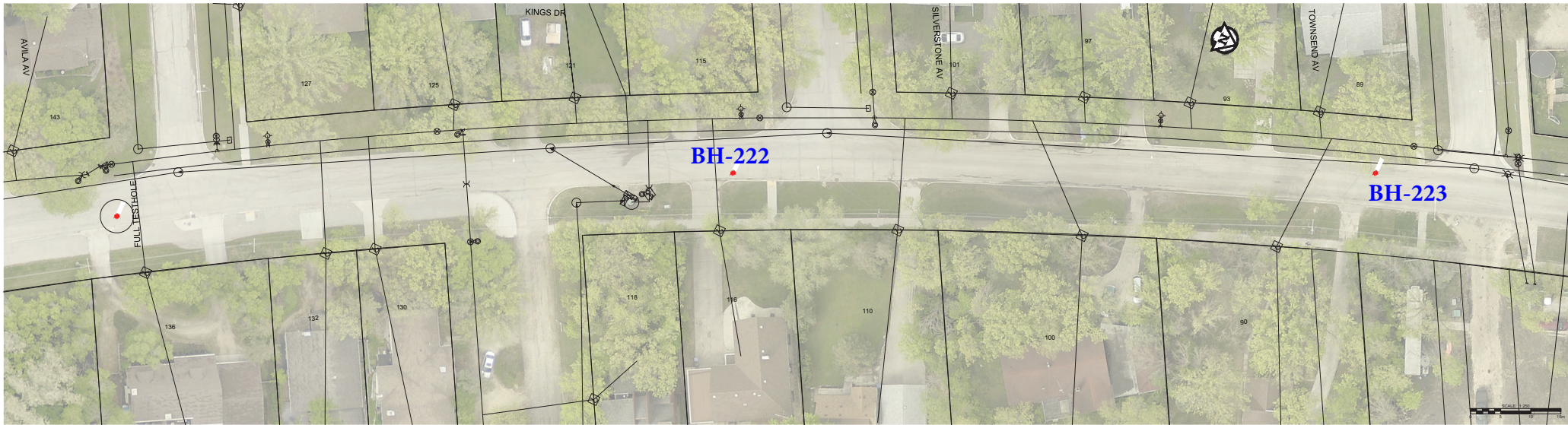
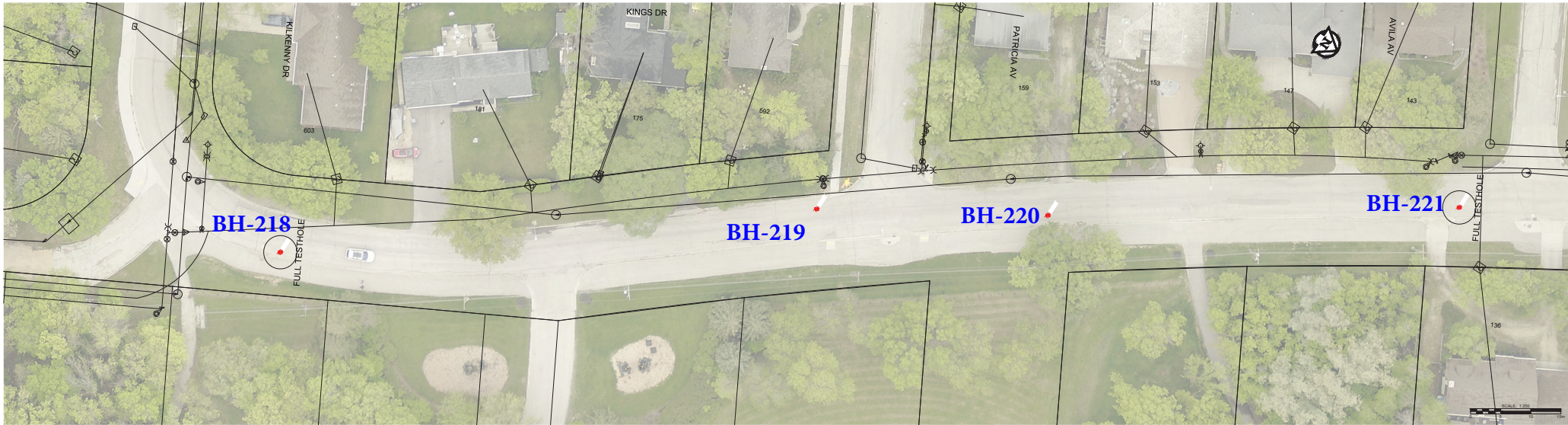
Appendix B

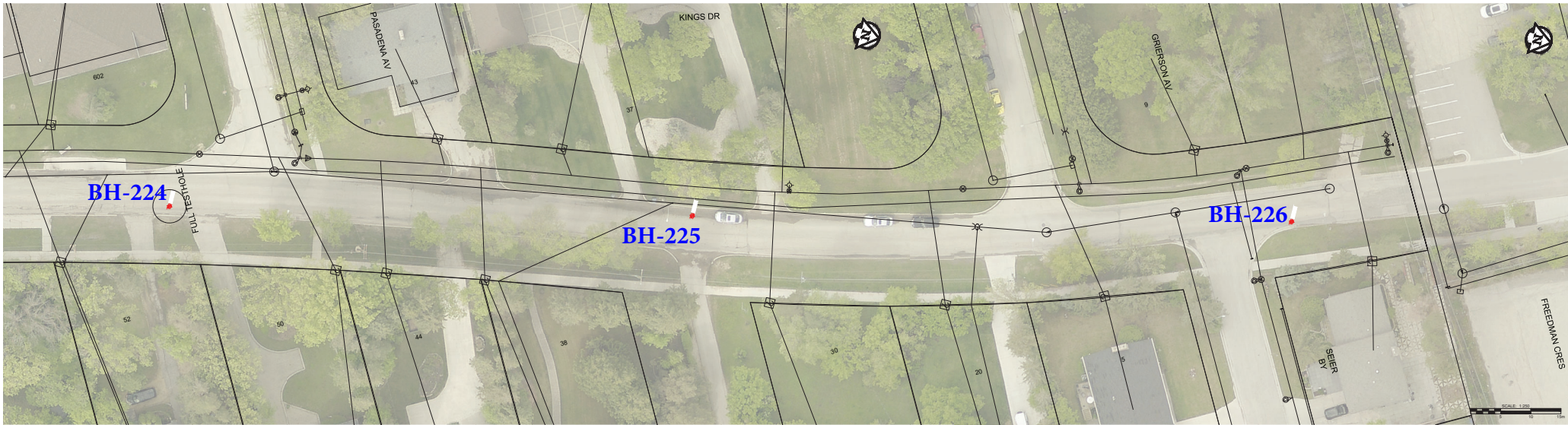
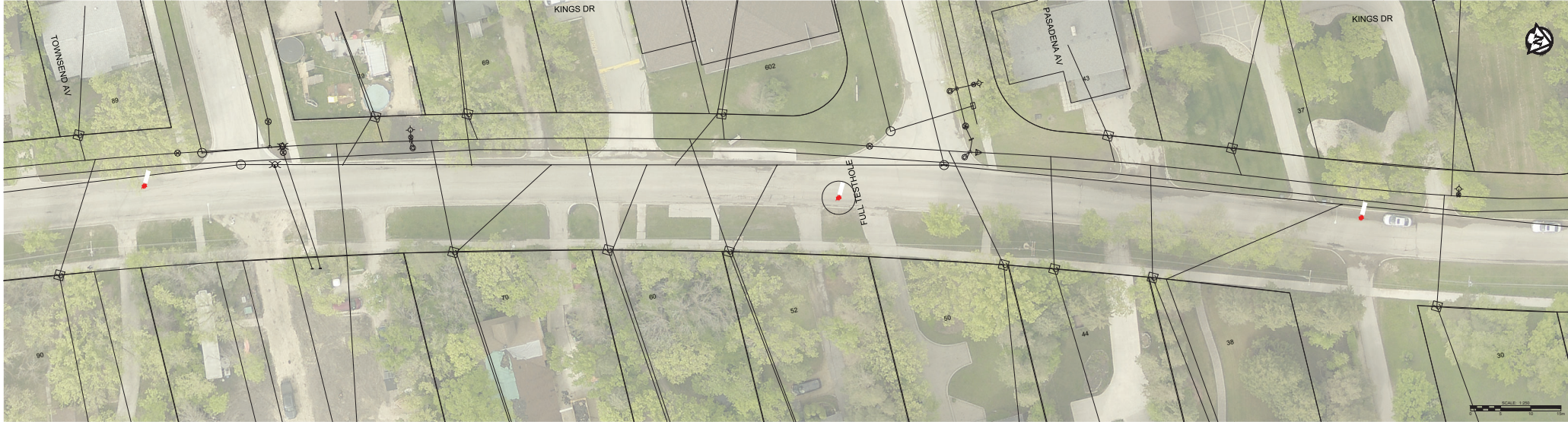
Borehole Location Plan

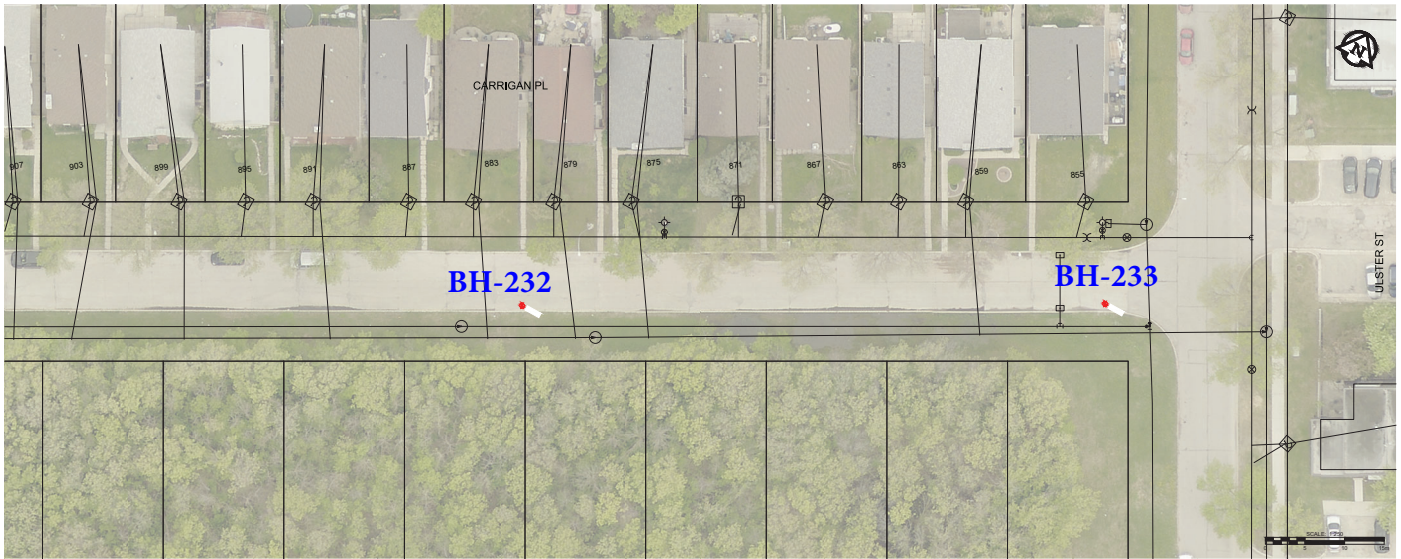
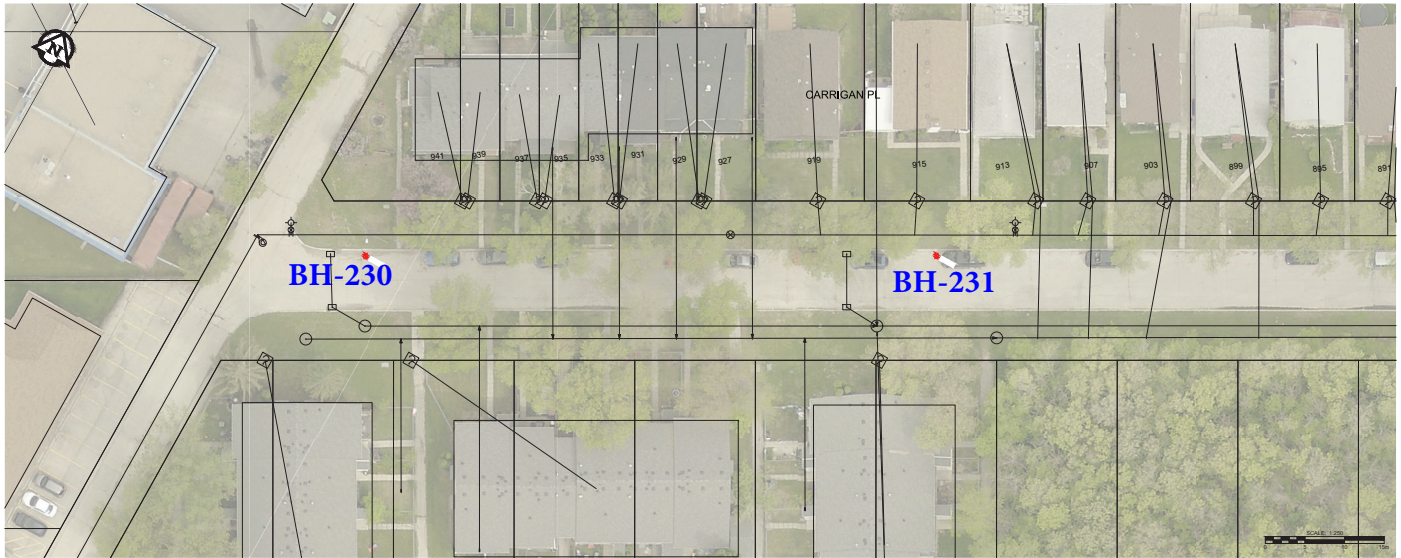


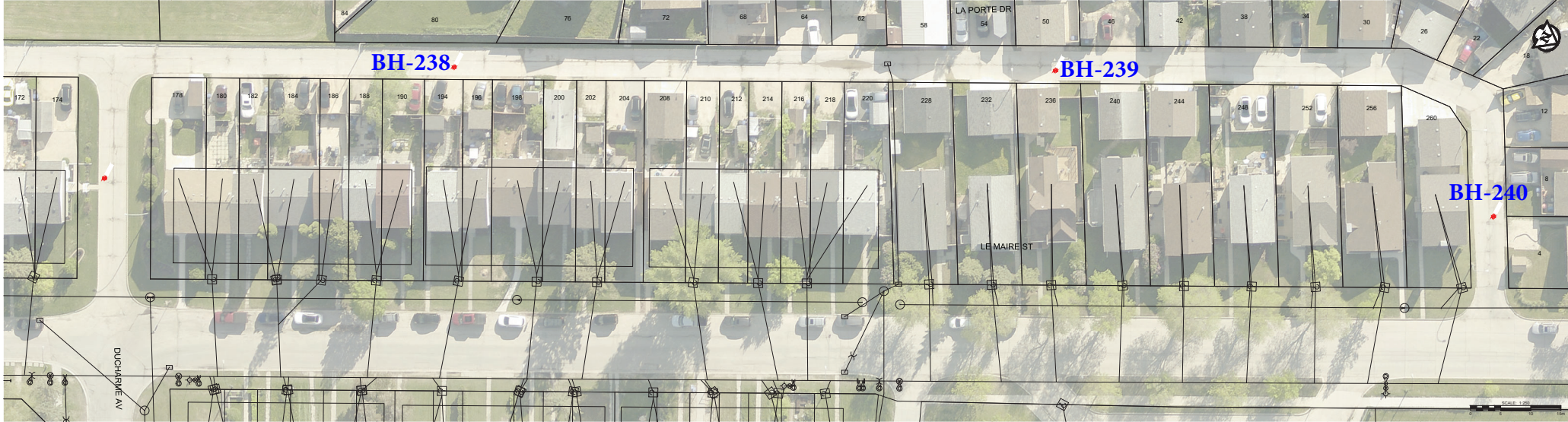
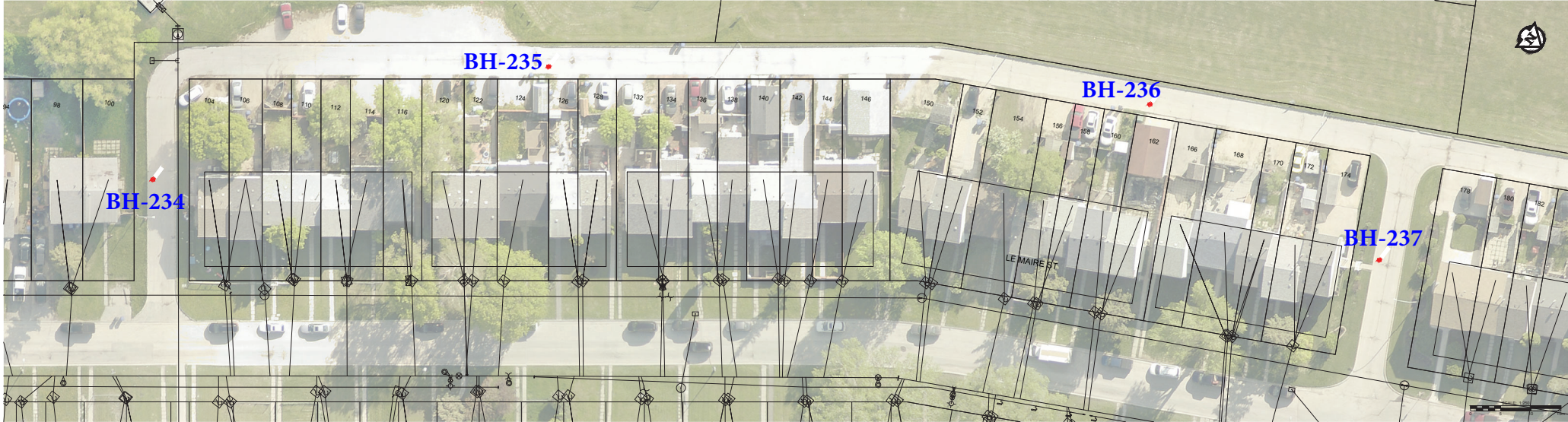


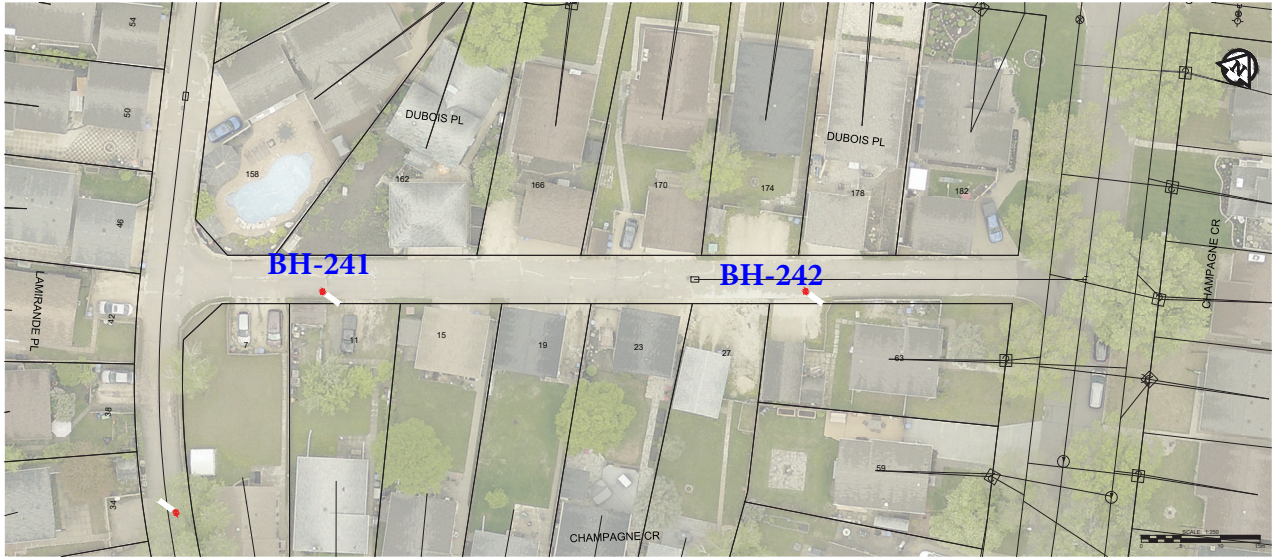
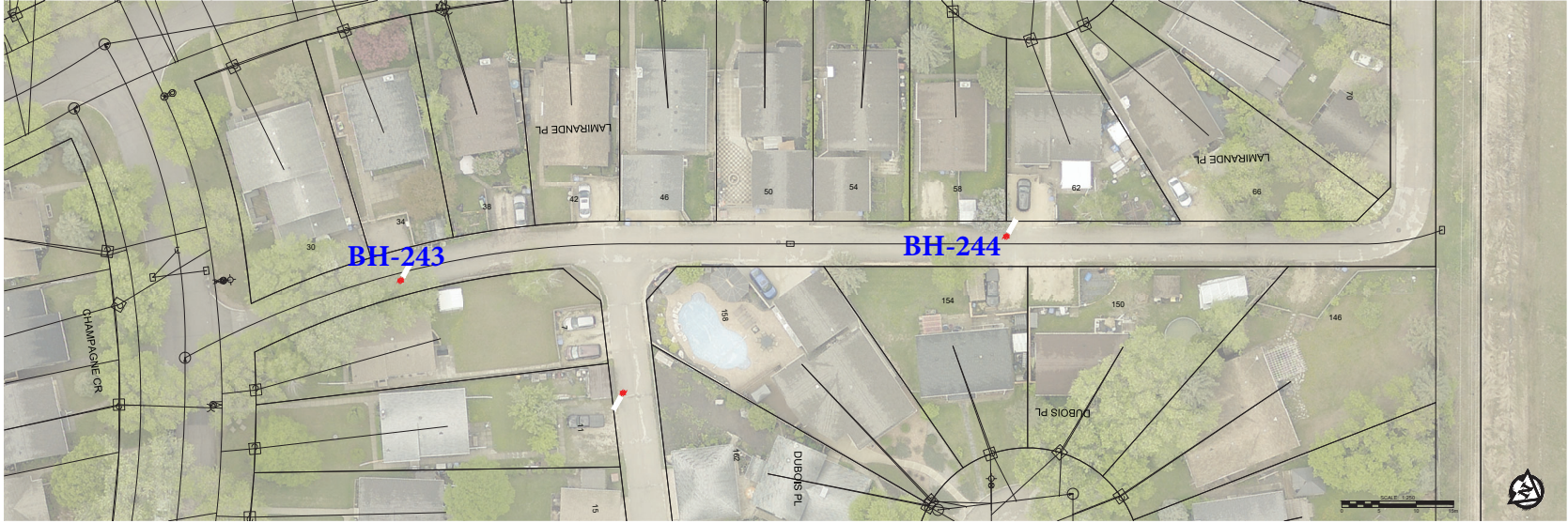


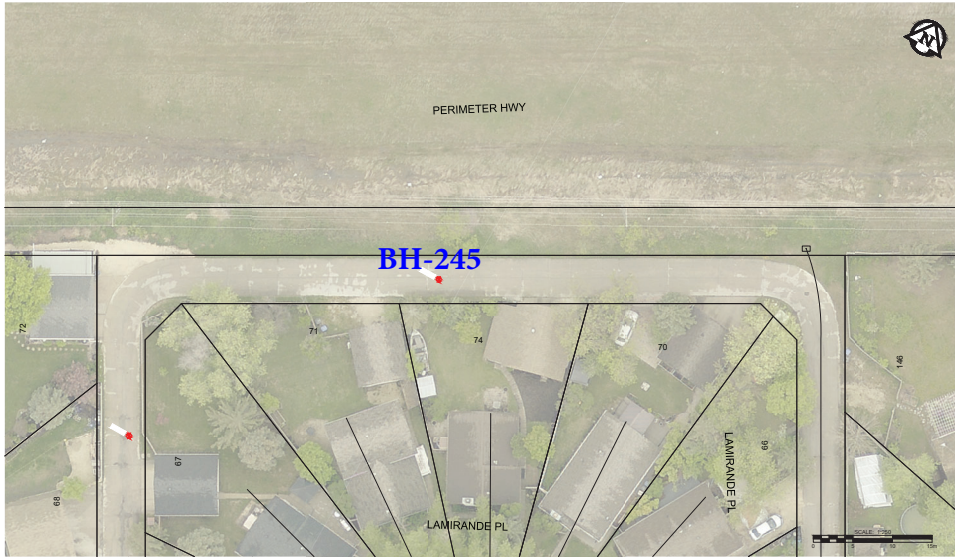
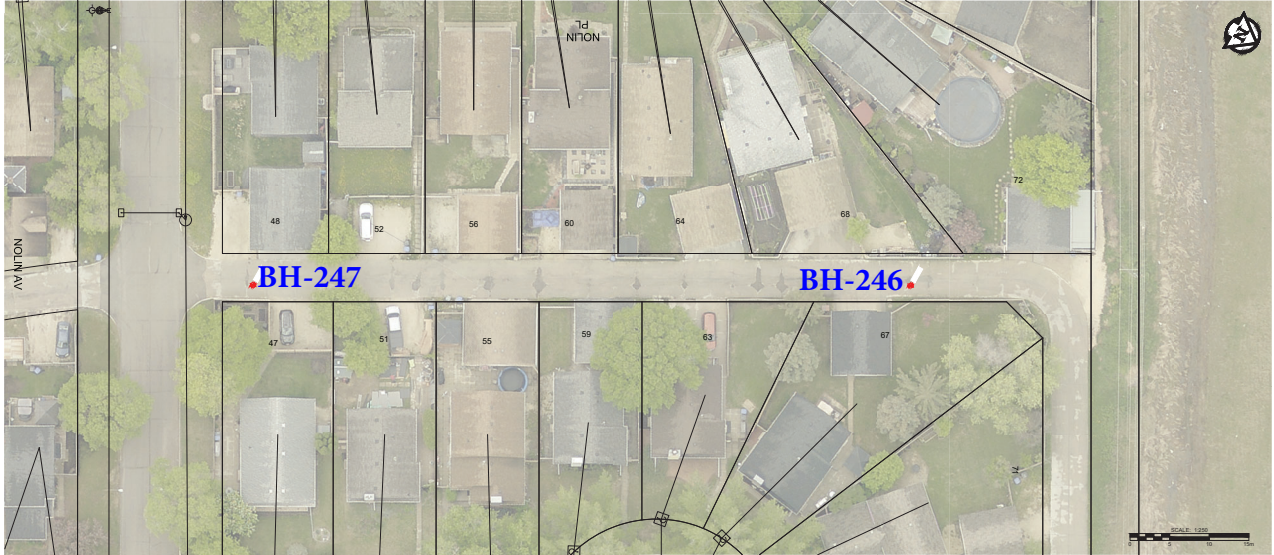












Appendix C

Core Photographs



Figure 1 – BH-204 – Chancellor Drive



Figure 2 – BH-205 - Chancellor Drive



Figure 3 – BH-206 – Chancellor Drive



Figure 4 – BH-207 – Chancellor Drive



Figure 5 – BH-208 – Chancellor Drive



Figure 6 – BH-209– Kings Park Roads



Figure 7 – BH-210 – Kings Park Roads



Figure 8 – BH-211 – Kings Park Roads



Figure 9 – BH-212 – Kings Park Roads



Figure 10 – BH-213 - Kings Park Roads



Figure 11 – BH-214- Kings Park Roads



Figure 12 – BH-215 – Kings Park Roads



Figure 13 – BH-216 – Kings Park Roads



Figure 14 – BH-217 – Kings Park Roads



Figure 15 – BH-218 – Kings Drive



Figure 16 – BH-219 – Kings Drive



Figure 17 – BH-220 – Kings Drive



Figure 18 – BH-221 – Kings Drive



Figure 19 – BH-222 – Kings Drive



Figure 20 – BH-223 – Kings Drive



Figure 21 – BH-224 – Kings Drive



Figure 22 – BH-225 – Kings Drive



Figure 23 – BH-226 – Kings Drive



Figure 24 – BH-227 – Peacock Place



Figure 25 – BH-228 – Peacock Place



Figure 26 – BH-229 – Peacock Place



Figure 27 – BH-230 – Carrigan Place



Figure 28 – BH-231 – Carrigan Place



Figure 29 – BH-232 – Carrigan Place



Figure 30 – BH-233 – Carrigan Place



Figure 31 – BH-234 – Alley (La Porte/Le Marie)



Figure 32 – BH-235 – Alley (La Porte/Le Marie)



Figure 33 – BH-236 – Alley (La Porte/Le Marie)



Figure 34 – BH-237- Alley (La Porte/Le Marie)



Figure 35 – BH-238 – Alley (La Porte/Le Marie)



Figure 36 – BH-239 – Alley (La Porte/Le Marie)



Figure 37 – BH-240 – Alley (La Porte/Le Marie)



Figure 38 – BH-241- Alley (Dubois/Lamirande)



Figure 39 – BH-242 – Alley (Dubois/Lamirande)



Figure 40 – BH-243 – Alley (Dubois/Lamirande)



Figure 41 – BH-244 – Alley (Dubois/Lamirande)



Figure 42 – BH-245 – Alley (Dubois/Lamirande)



Figure 43 – BH-246 – Alley (Dubois/Lamirande)



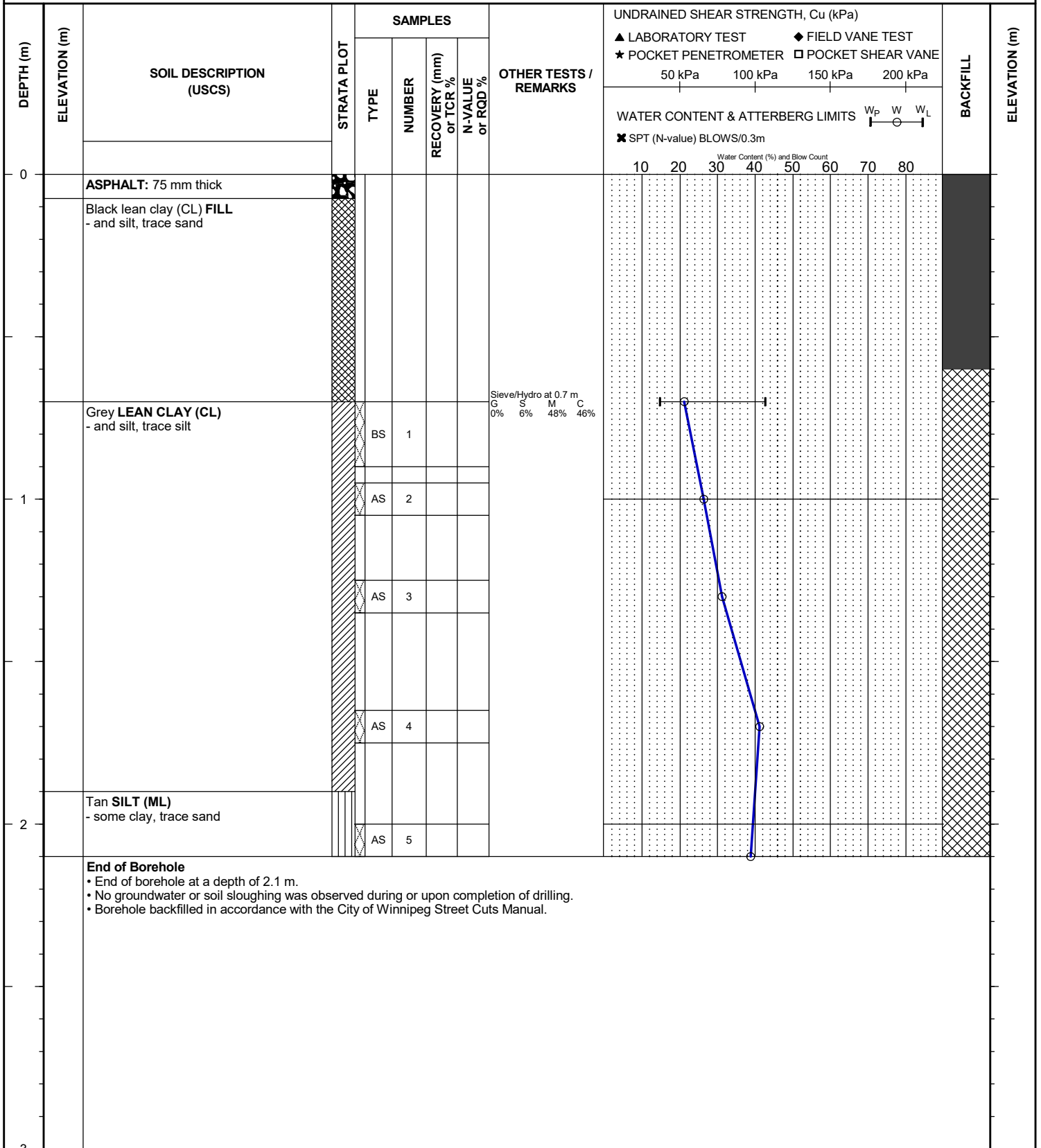
Figure 44 – BH-247 – Alley (Dubois/Lamirande)

Appendix D

Borehole Records

CLIENT: Stantec Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-10
 LOCATION: Chancellor Drive
 DATE BORED: January 26 2026

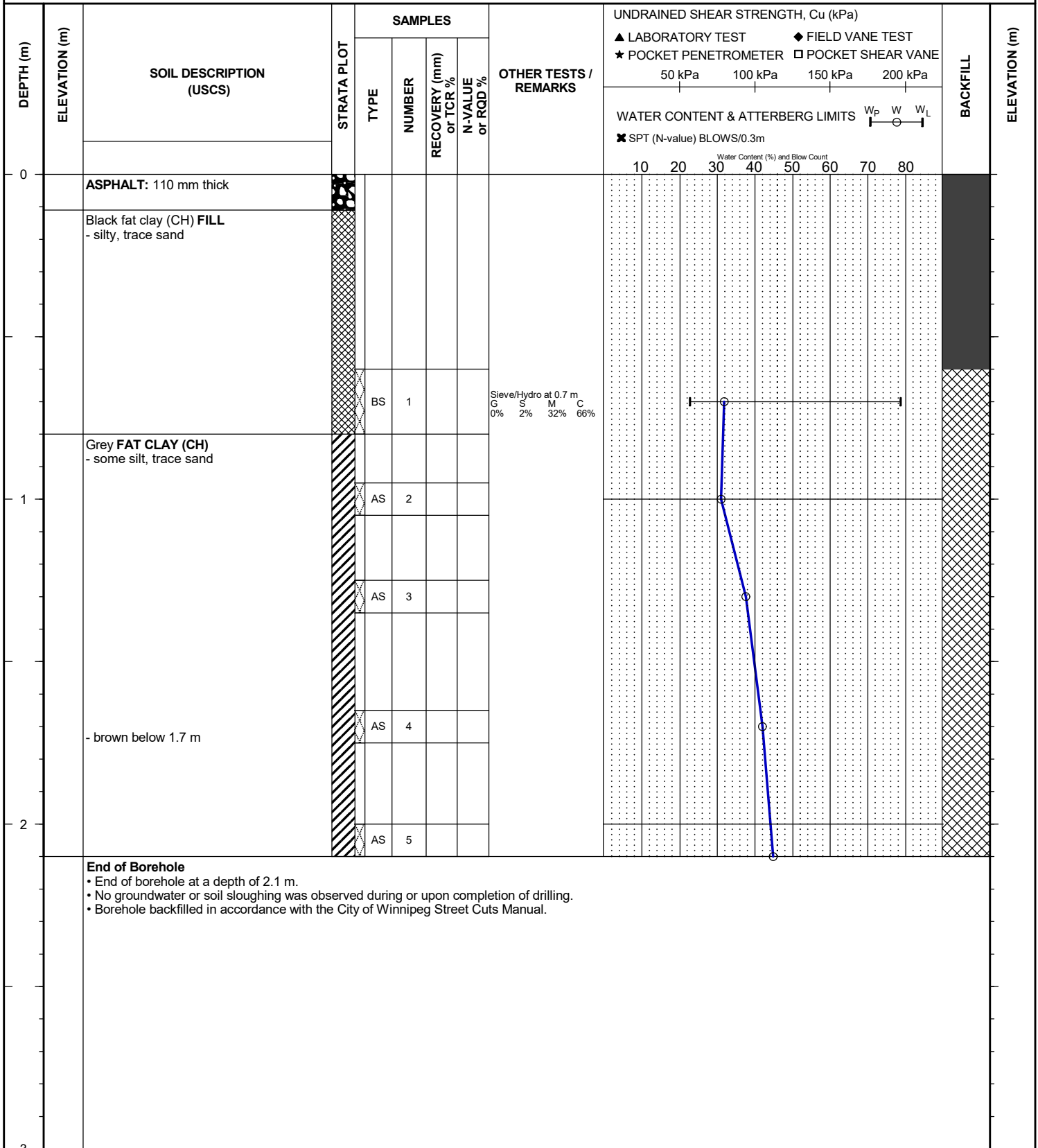
PROJECT NO.: 132501009
 BH ELEVATION: N/A
 DATUM: N/A
 WATER LEVEL: N/A



CLIENT: Stantec Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-10
 LOCATION: Chancellor Drive
 DATE BORED: January 26 2026

PROJECT NO.: 132501009
 BH ELEVATION: N/A
 DATUM: N/A

WATER LEVEL: N/A

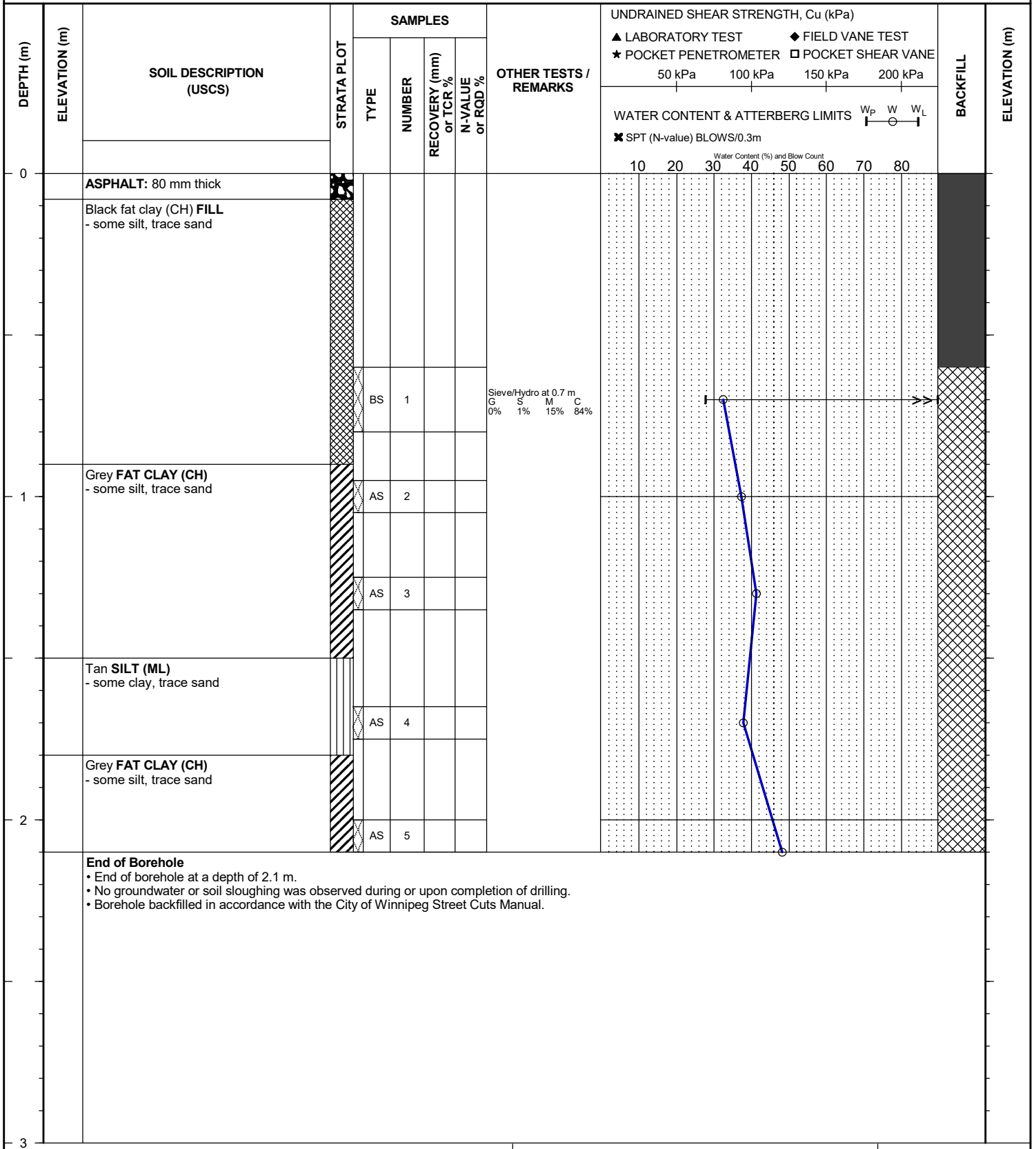


BACKFILL SYMBOL: ASPHALT GROUT CONCRETE
 BENTONITE DRILL CUTTINGS SAND SLOUGH

Drilling Contractor: Paddock Drilling Ltd. Logged By: BM
 Drilling Method: 125 mm SSA Reviewed By: GB
 Completion Depth: 2.1 m Page 1 of 1

CLIENT: Stantec Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-10
 LOCATION: Chancellor Drive
 DATE BORED: January 26 2026

PROJECT NO.: 132501009
 BH ELEVATION: N/A
 DATUM: N/A
 WATER LEVEL: N/A



CLIENT: **Stantec Consulting Ltd.**

PROJECT NO.: **132501009**

PROJECT: **2026 Local Street Renewal Program - 26-R-10**

BH ELEVATION: N/A

LOCATION: Chancellor Drive

DATUM: N/A

DATE BORED: **January 26 2026**

WATER LEVEL: **N/A**

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION (USCS)	STRATA PLOT	SAMPLES				OTHER TESTS / REMARKS	UNDRAINED SHEAR STRENGTH, Cu (kPa)		BACKFILL	ELEVATION (m)
				TYPE	NUMBER	RECOVERY (mm) or TCR %	N-VALUE or RQD %		LABORATORY TEST ▲ POCKET PENETROMETER 50 kPa 100 kPa 150 kPa 200 kPa	FIELD VANE TEST ◆ POCKET SHEAR VANE		
									WATER CONTENT & ATTERBERG LIMITS			
									Water Content (%) and Blow Count W _P W W _L X SPT (N-value) BLOWS/0.3m			
									10 20 30 40 50 60 70 80			
0		ASPHALT: 50 mm thick	[Pattern]									
		Black fat clay (CH) FILL - some silt, some sand, trace gravel	[Pattern]									
				BS	1			Sieve/Hydro at 0.7 m G 4% S 11% M 33% C 53%				
1		Grey FAT CLAY (CH) - some silt, trace sand	[Pattern]	AS	2							
				AS	3							
				AS	4							
2				AS	5							
		End of Borehole • End of borehole at a depth of 2.1 m. • No groundwater or soil sloughing was observed during or upon completion of drilling. • Borehole backfilled in accordance with the City of Winnipeg Street Cuts Manual.										

Drilling Contractor: Paddock Drilling Ltd. Logged By: BM

Drilling Method: 125 mm SSA Reviewed By: GB

Completion Depth: 2.1 m Page 1 of 1

CLIENT: **Stantec Consulting Ltd.**

PROJECT NO.: **132501009**

PROJECT: **2026 Local Street Renewal Program - 26-R-10**

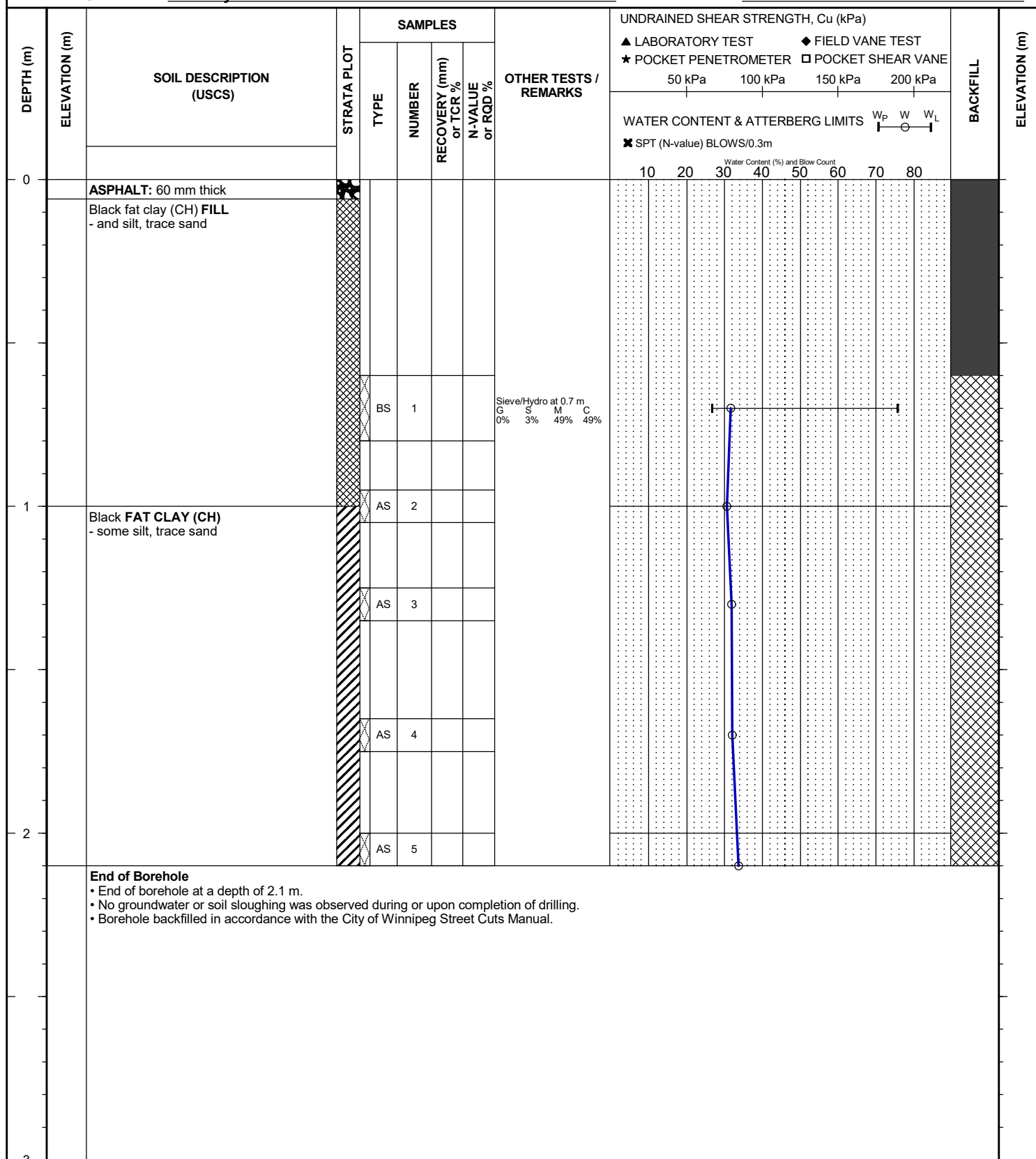
BH ELEVATION: N/A

LOCATION: **Kings Park Roads/Plot**

DATUM: **N/A**

DATE BORED: **January 27 2026**

WATER LEVEL: **N/A**



End of Borehole

- End of borehole at a depth of 2.1 m.
- No groundwater or soil sloughing was observed during or upon completion of drilling.
- Borehole backfilled in accordance with the City of Winnipeg Street Cuts Manual.

Drilling Contractor: Paddock Drilling Ltd.

Logged By: BM

Drilling Method: 125 mm SSA

Reviewed By: GB

Completion Depth: 2.1 m

Page 1 of 1



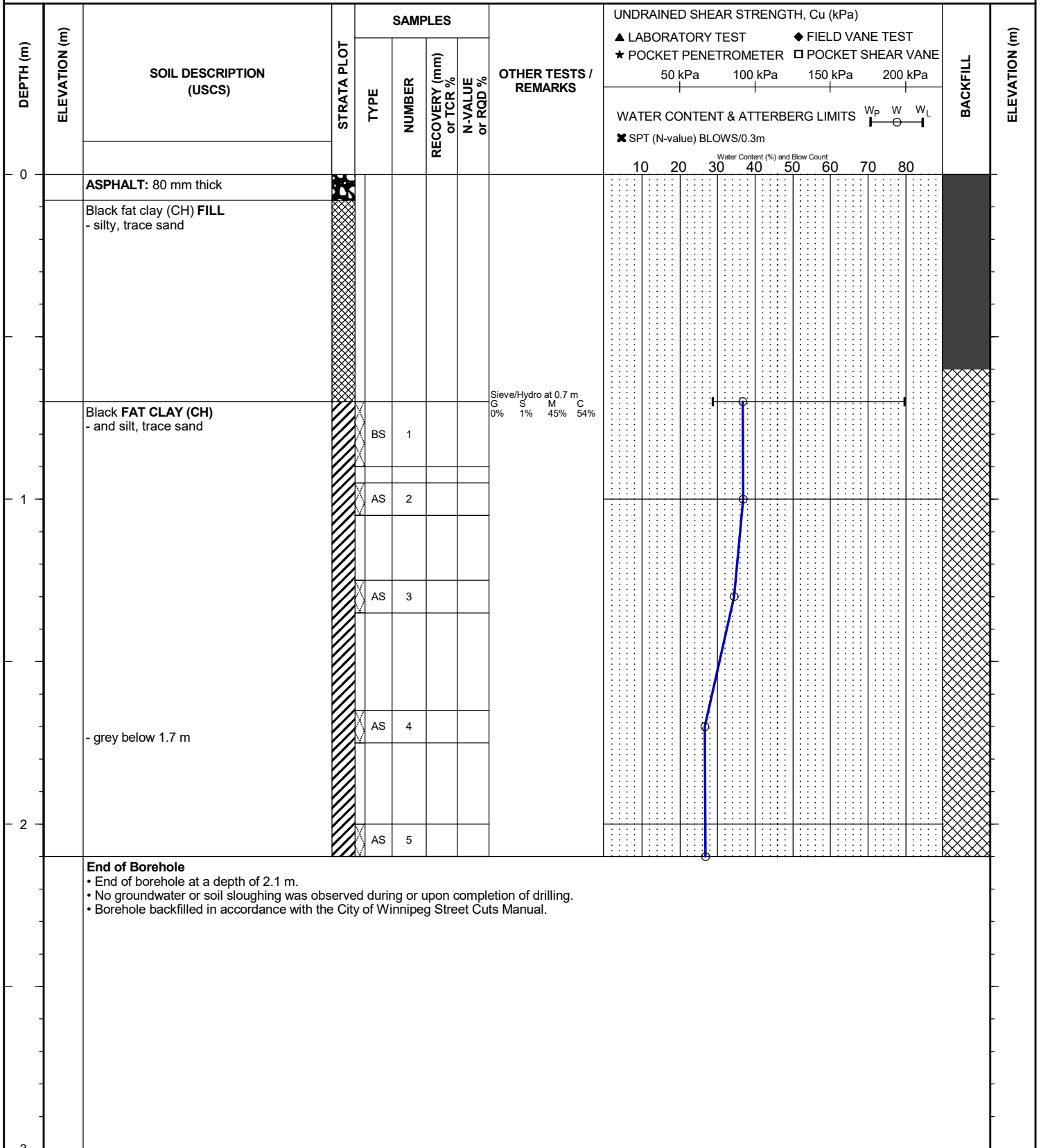
BOREHOLE RECORD

BH-217

CLIENT: Stantec Consulting Ltd.
PROJECT: 2026 Local Street Renewal Program - 26-R-10
LOCATION: Kings Park Roads/Plot
DATE BORED: January 27 2026

PROJECT NO.: 132501009
BH ELEVATION: N/A
DATUM: N/A

WATER LEVEL: N/A



Printed Feb 12 2026 10:21:29 SOIL 132501009_2026_LOCAL_STREET_RENEWAL.GPJ 2/12/26

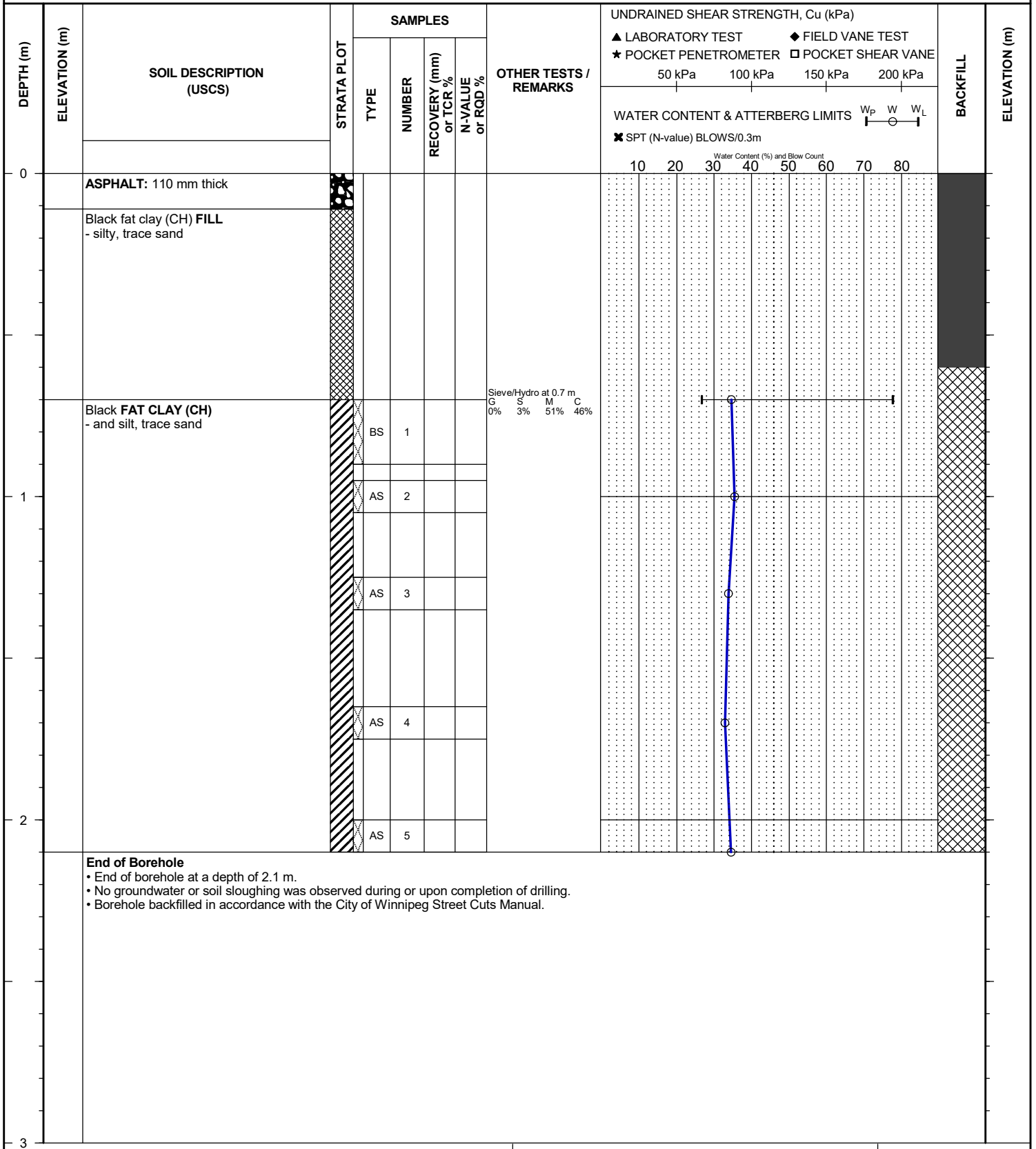


BOREHOLE RECORD

BH-218

CLIENT: Stantec Consulting Ltd.
PROJECT: 2026 Local Street Renewal Program - 26-R-10
LOCATION: Kings Drive
DATE BORED: January 27 2026

PROJECT NO.: 132501009
BH ELEVATION: N/A
DATUM: N/A
WATER LEVEL: N/A



Printed Feb 12 2026 10:21:30 SOIL 132501009_2026_LOCAL_STREET_RENEWAL.GPJ 2/12/26



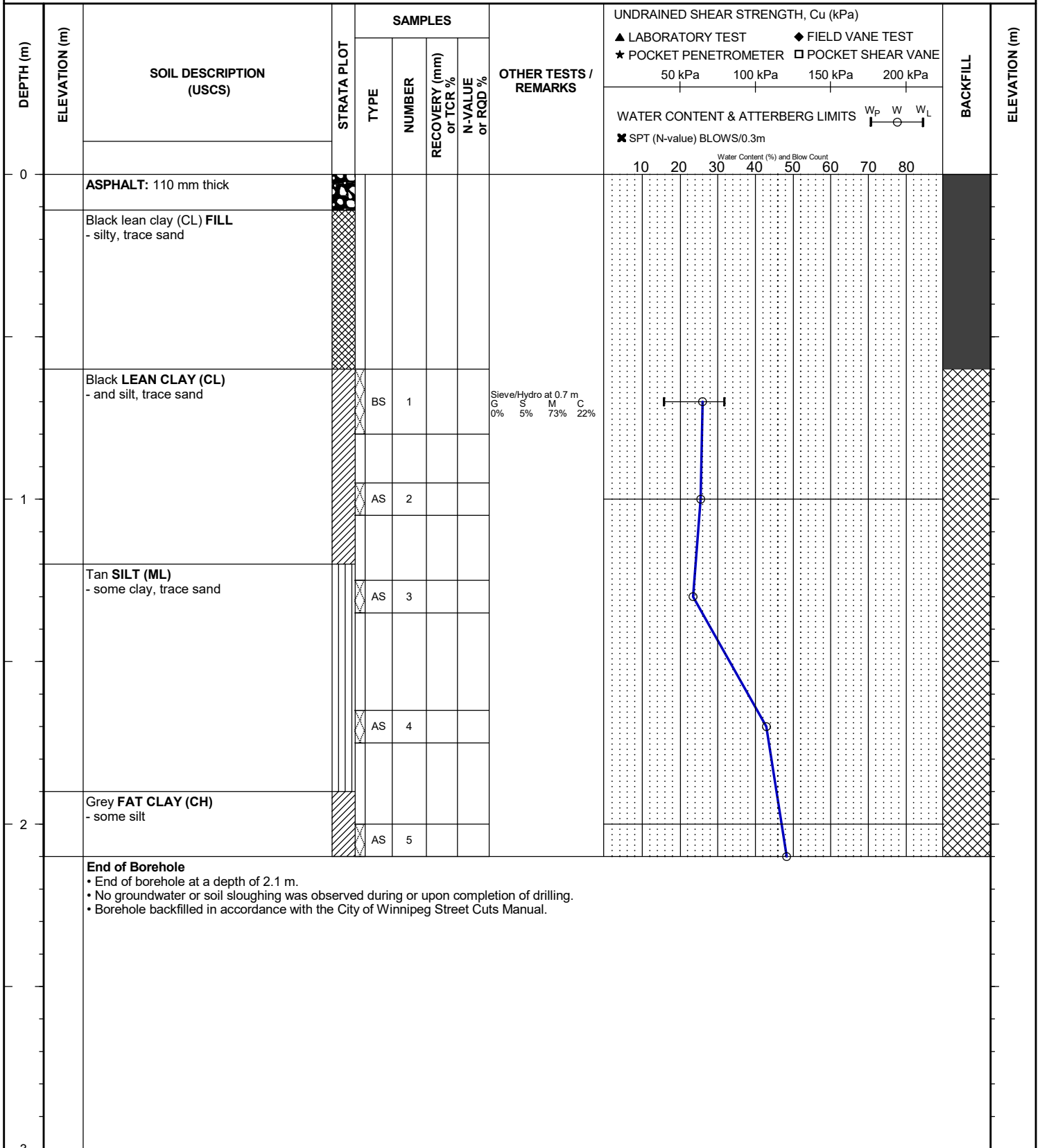
BOREHOLE RECORD

BH-221

CLIENT: Stantec Consulting Ltd.
PROJECT: 2026 Local Street Renewal Program - 26-R-10
LOCATION: Kings Drive
DATE BORED: January 27 2026

PROJECT NO.: 132501009
BH ELEVATION: N/A
DATUM: N/A

WATER LEVEL: N/A

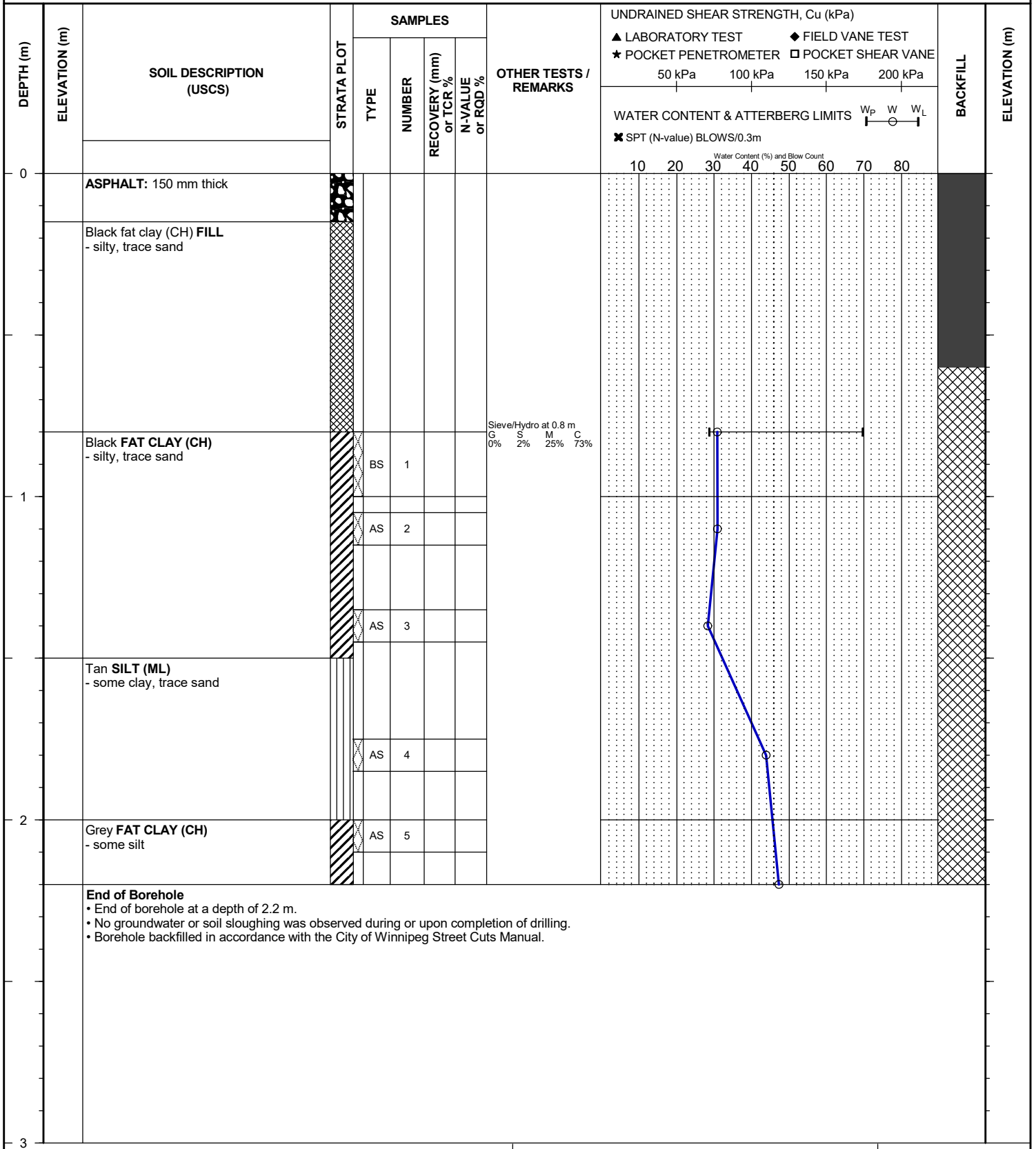


BACKFILL SYMBOL: ASPHALT GROUT CONCRETE
 BENTONITE DRILL CUTTINGS SAND SLOUGH

Drilling Contractor: Paddock Drilling Ltd. Logged By: BM
Drilling Method: 125 mm SSA Reviewed By: GB
Completion Depth: 2.1 m Page 1 of 1

CLIENT: Stantec Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-10
 LOCATION: Kings Drive
 DATE BORED: January 27 2026

PROJECT NO.: 132501009
 BH ELEVATION: N/A
 DATUM: N/A
 WATER LEVEL: N/A



Appendix E

Laboratory Test Reports

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD B - ONE-POINT)

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 1

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.06

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

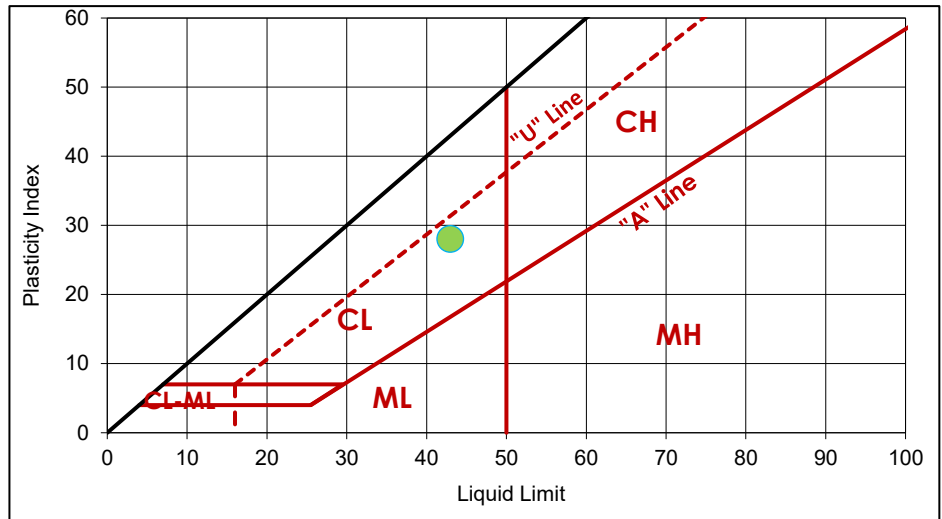
CLIENT FIELD ID BH-204, 0.7 m

STANTEC SAMPLE NO. 2775

	LIQUID LIMIT	
TRIAL	1	2
BLOWS	22	22
MC (%)	44	44

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	15	15


LIQUID LIMIT, LL	43
PLASTIC LIMIT, PL	15
PLASTICITY INDEX, PI	28
AS REC'D MC (%)	21.7



COMMENTS

No comments.

REPORT DATE 2026.Feb.09

REVIEWED BY 
Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD B - ONE-POINT)

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 2

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.06

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

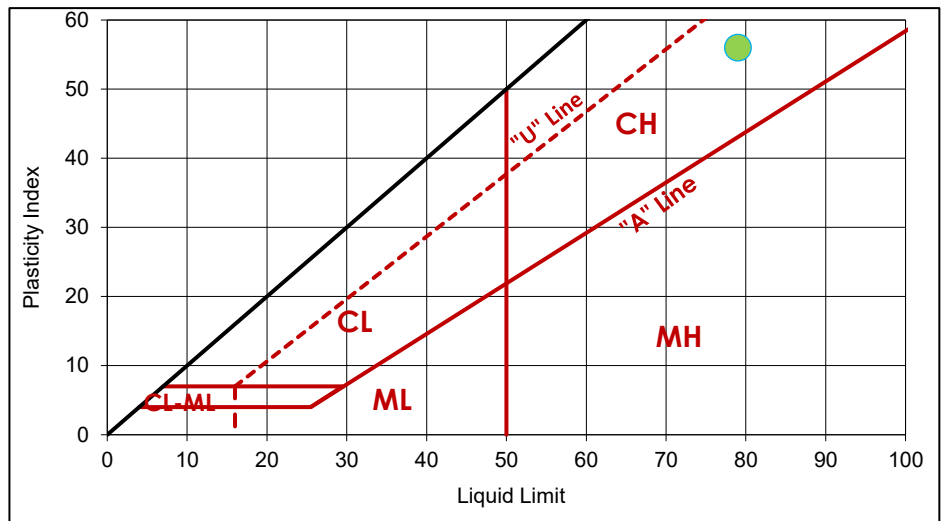
CLIENT FIELD ID BH-205, 0.7 m

STANTEC SAMPLE NO. 2776

TRIAL	LIQUID LIMIT	
	1	2
BLOWS	25	25
MC (%)	78	80

TRIAL	PLASTIC LIMIT	
	1	2
MC (%)	23	23


LIQUID LIMIT, LL	79
PLASTIC LIMIT, PL	23
PLASTICITY INDEX, PI	56
AS REC'D MC (%)	30.2



COMMENTS

No comments.

REPORT DATE 2026.Feb.09

REVIEWED BY 
Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD B - ONE-POINT)

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 3

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.06

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

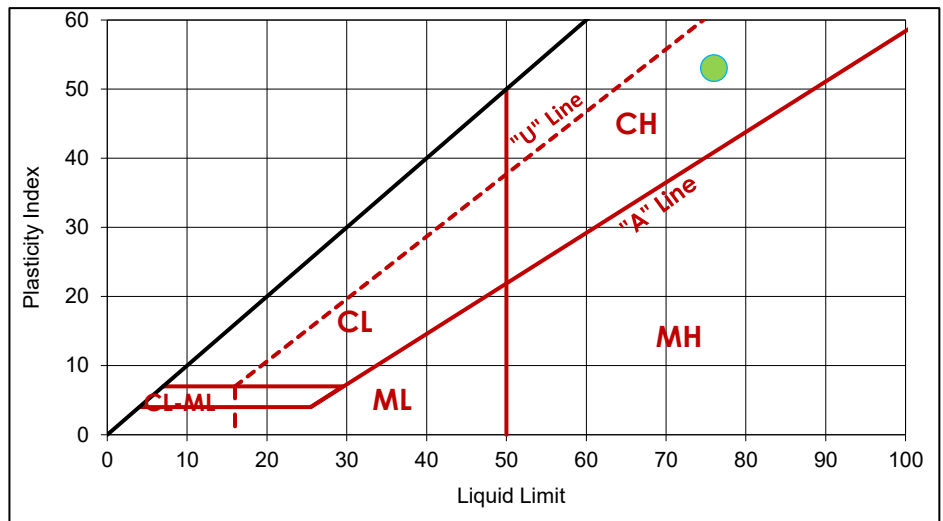
CLIENT FIELD ID BH-206, 0.7 m

STANTEC SAMPLE NO. 2777

TRIAL	LIQUID LIMIT	
	1	2
BLOWS	27	28
MC (%)	75	75

TRIAL	PLASTIC LIMIT	
	1	2
MC (%)	23	22


LIQUID LIMIT, LL	76
PLASTIC LIMIT, PL	23
PLASTICITY INDEX, PI	53
AS REC'D MC (%)	29.4



COMMENTS

No comments.

REPORT DATE 2026.Feb.09

REVIEWED BY 
Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD B - ONE-POINT)

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 4

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.06

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

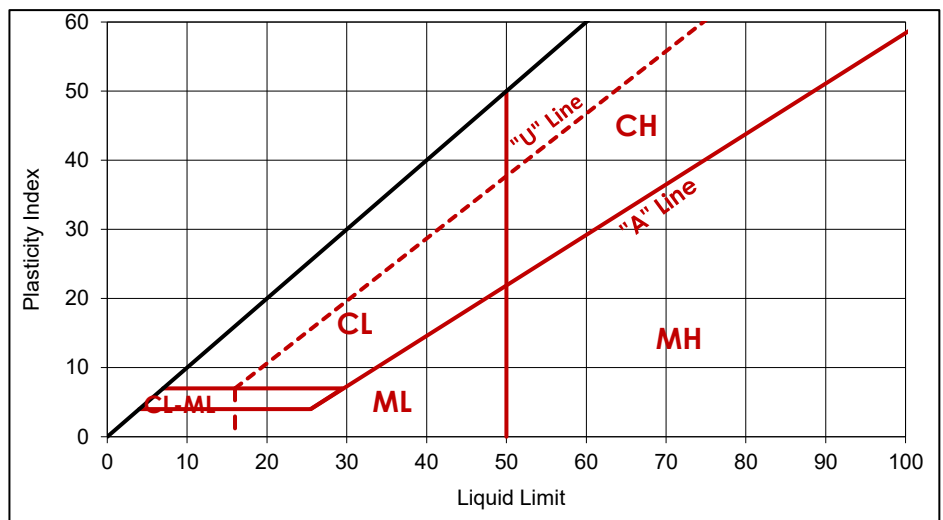
CLIENT FIELD ID BH-207, 0.7 m

STANTEC SAMPLE NO. 2778

TRIAL	LIQUID LIMIT	
	1	2
BLOWS	26	25
MC (%)	91	91

TRIAL	PLASTIC LIMIT	
	1	2
MC (%)	28	28


LIQUID LIMIT, LL	91
PLASTIC LIMIT, PL	28
PLASTICITY INDEX, PI	63
AS REC'D MC (%)	33.0



COMMENTS

No comments.

REPORT DATE 2026.Feb.09

REVIEWED BY 
Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD B - ONE-POINT)

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 5

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.06

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

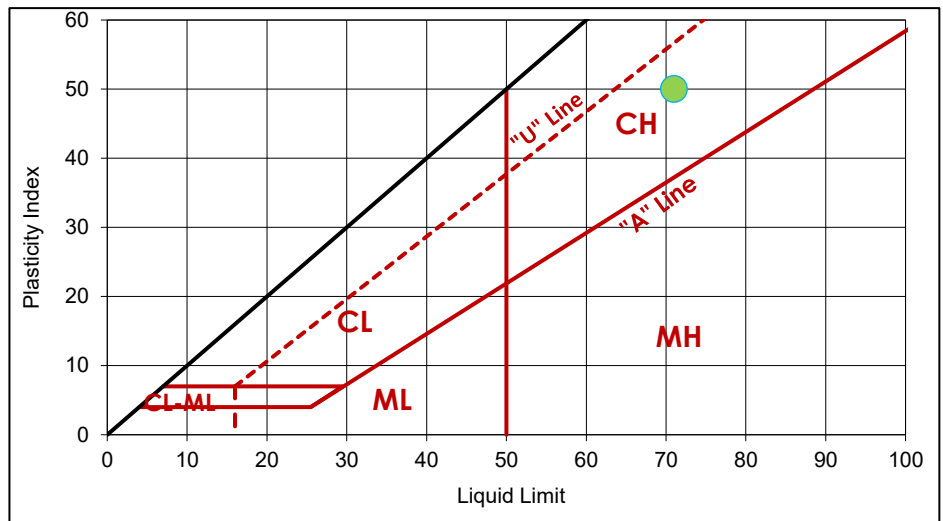
CLIENT FIELD ID BH-208, 0.7 m

STANTEC SAMPLE NO. 2779

TRIAL	LIQUID LIMIT	
	1	2
BLOWS	25	25
MC (%)	71	71

TRIAL	PLASTIC LIMIT	
	1	2
MC (%)	21	21


LIQUID LIMIT, LL	71
PLASTIC LIMIT, PL	21
PLASTICITY INDEX, PI	50
AS REC'D MC (%)	26.7



COMMENTS

No comments.

REPORT DATE 2026.Feb.09

REVIEWED BY 
Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD B - ONE-POINT)

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 6

DATE SAMPLED: 2026.Jan.27

DATE RECEIVED: 2026.Jan.27

DATE TESTED: 2026.Feb.06

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

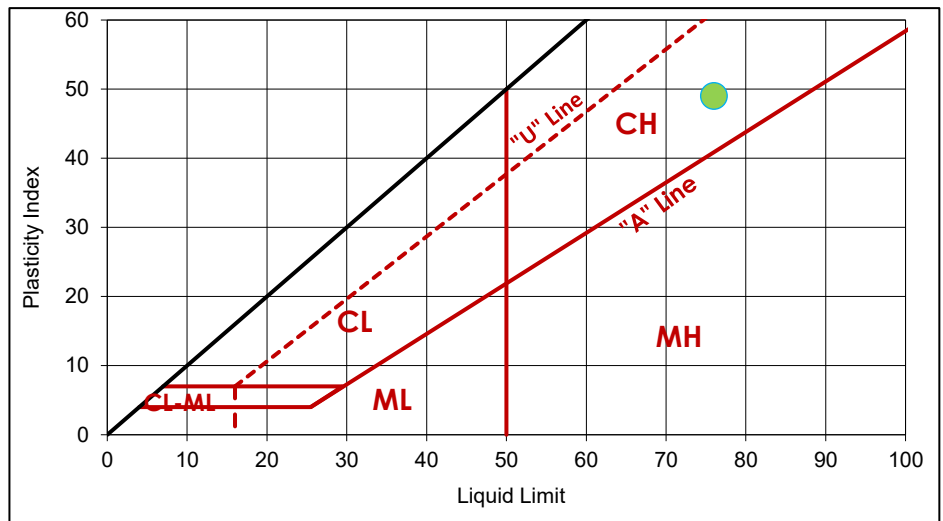
CLIENT FIELD ID BH-210, 0.7 m

STANTEC SAMPLE NO. 2780

TRIAL	LIQUID LIMIT	
	1	2
BLOWS	24	24
MC (%)	76	76

TRIAL	PLASTIC LIMIT	
	1	2
MC (%)	27	27


LIQUID LIMIT, LL	76
PLASTIC LIMIT, PL	27
PLASTICITY INDEX, PI	49
AS REC'D MC (%)	32.2



COMMENTS

No comments.

REPORT DATE 2026.Feb.09

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD B - ONE-POINT)

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 7

DATE SAMPLED: 2026.Jan.27

DATE RECEIVED: 2026.Jan.27

DATE TESTED: 2026.Feb.06

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

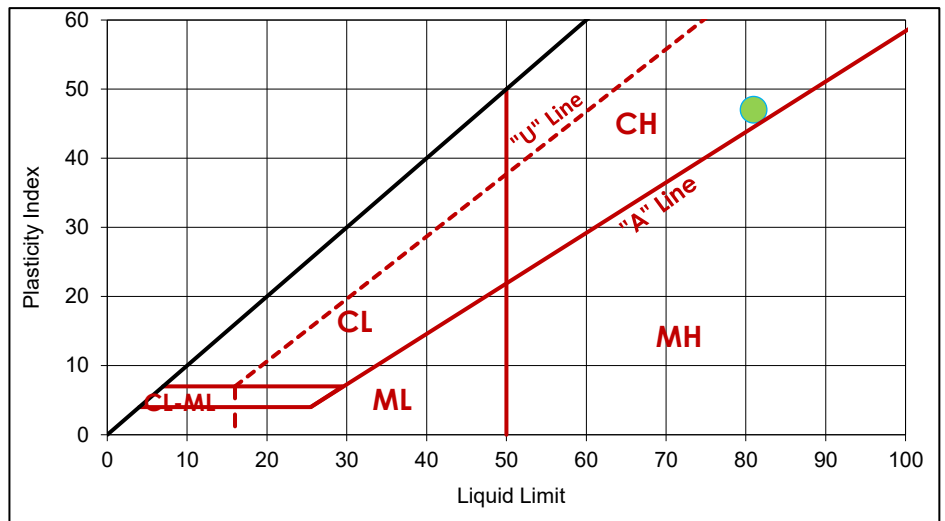
CLIENT FIELD ID BH-215, 0.7 m

STANTEC SAMPLE NO. 2781

TRIAL	LIQUID LIMIT	
	1	2
BLOWS	21	21
MC (%)	83	83

TRIAL	PLASTIC LIMIT	
	1	2
MC (%)	34	34


LIQUID LIMIT, LL	81
PLASTIC LIMIT, PL	34
PLASTICITY INDEX, PI	47
AS REC'D MC (%)	40.6



COMMENTS

No comments.

REPORT DATE 2026.Feb.09

REVIEWED BY 
Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD B - ONE-POINT)

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 8

DATE SAMPLED: 2026.Jan.27

DATE RECEIVED: 2026.Jan.27

DATE TESTED: 2026.Feb.06

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

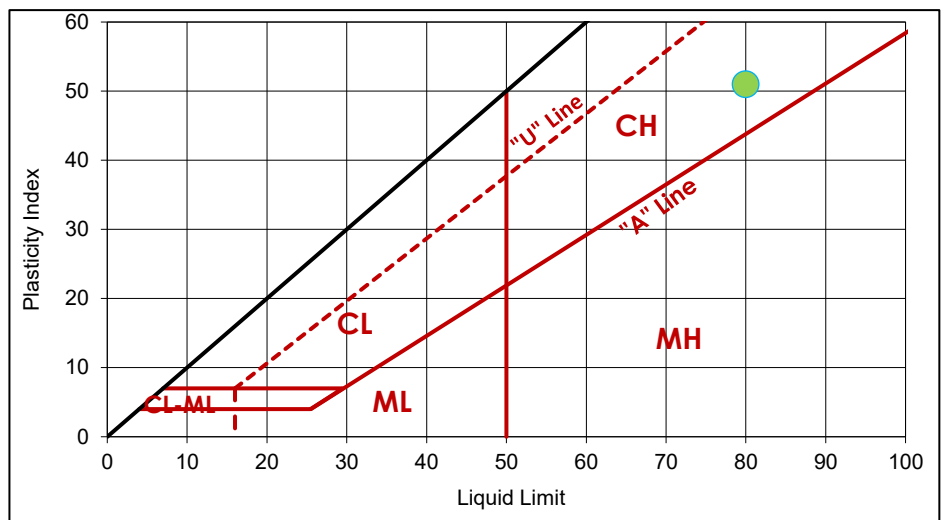
CLIENT FIELD ID BH-217, 0.7 m

STANTEC SAMPLE NO. 2782

TRIAL	LIQUID LIMIT	
	1	2
BLOWS	21	21
MC (%)	82	81

TRIAL	PLASTIC LIMIT	
	1	2
MC (%)	29	29


LIQUID LIMIT, LL	80
PLASTIC LIMIT, PL	29
PLASTICITY INDEX, PI	51
AS REC'D MC (%)	37.3



COMMENTS

No comments.

REPORT DATE 2026.Feb.09

REVIEWED BY 
Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD B - ONE-POINT)

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 9

DATE SAMPLED: 2026.Jan.27

DATE RECEIVED: 2026.Jan.27

DATE TESTED: 2026.Feb.06

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

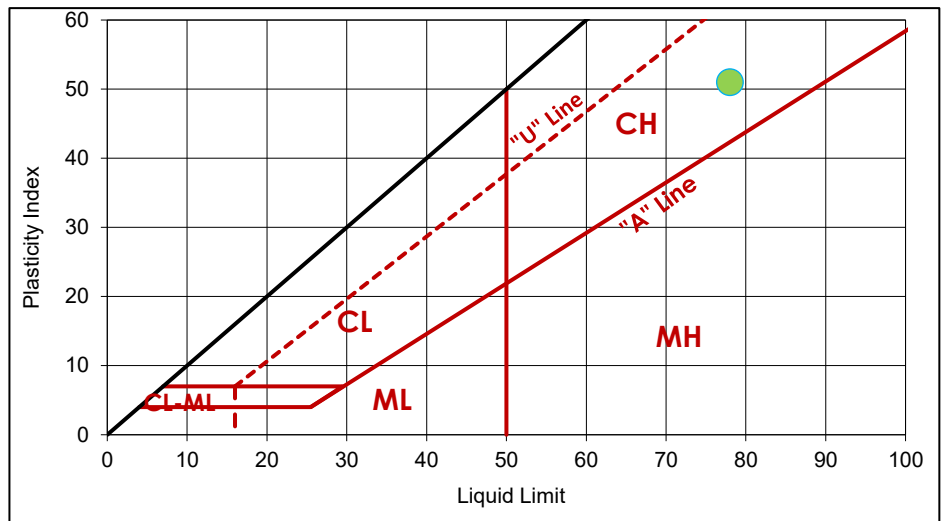
CLIENT FIELD ID BH-218, 0.7 m

STANTEC SAMPLE NO. 2783

TRIAL	LIQUID LIMIT	
	1	2
BLOWS	28	28
MC (%)	77	77

TRIAL	PLASTIC LIMIT	
	1	2
MC (%)	27	27


LIQUID LIMIT, LL	78
PLASTIC LIMIT, PL	27
PLASTICITY INDEX, PI	51
AS REC'D MC (%)	35.2



COMMENTS

No comments.

REPORT DATE 2026.Feb.09

REVIEWED BY 
Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD B - ONE-POINT)

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 10

DATE SAMPLED: 2026.Jan.27

DATE RECEIVED: 2026.Jan.27

DATE TESTED: 2026.Feb.06

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

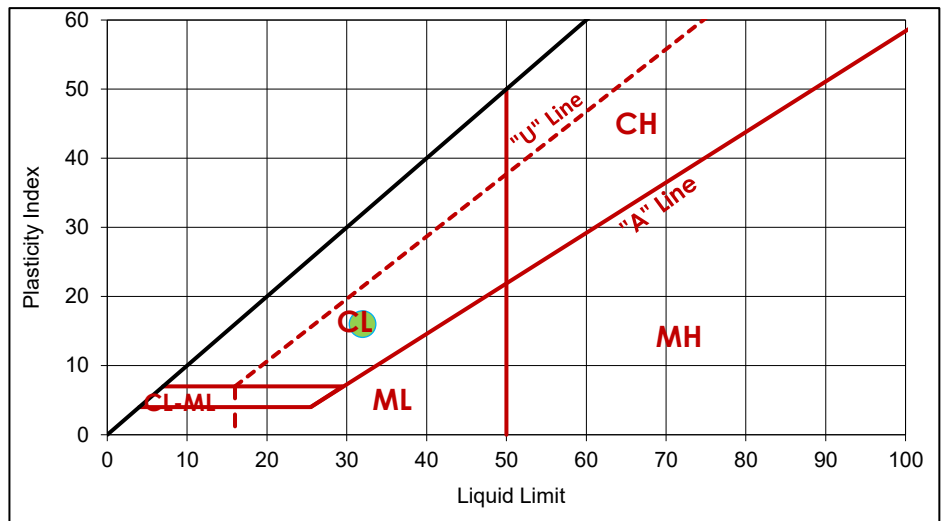
CLIENT FIELD ID BH-221, 0.7 m

STANTEC SAMPLE NO. 2784

	LIQUID LIMIT	
TRIAL	1	2
BLOWS	21	21
MC (%)	32	32

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	16	16


LIQUID LIMIT, LL	32
PLASTIC LIMIT, PL	16
PLASTICITY INDEX, PI	16
AS REC'D MC (%)	26.5



COMMENTS

No comments.

REPORT DATE 2026.Feb.09

REVIEWED BY 
Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD B - ONE-POINT)

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 11

DATE SAMPLED: 2026.Jan.27

DATE RECEIVED: 2026.Jan.27

DATE TESTED: 2026.Feb.06

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

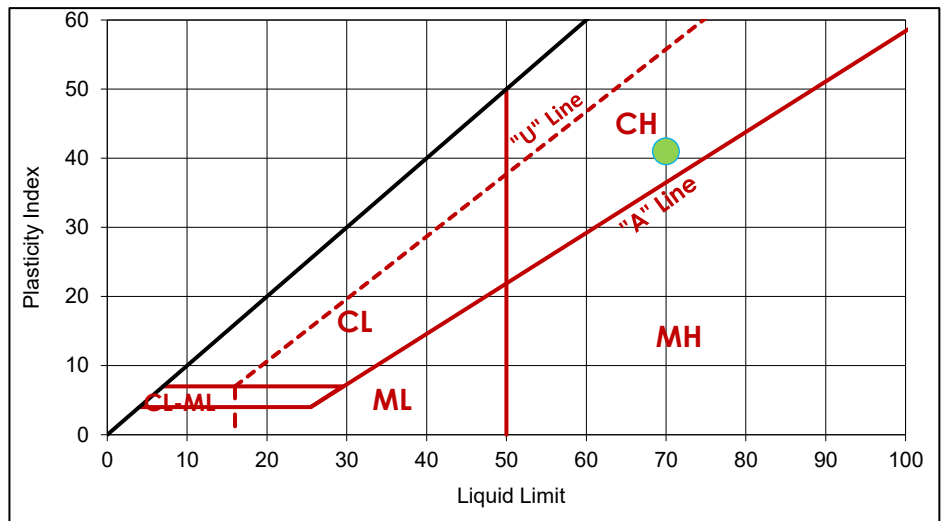
CLIENT FIELD ID BH-224, 0.8 m

STANTEC SAMPLE NO. 2785

	LIQUID LIMIT	
TRIAL	1	2
BLOWS	28	28
MC (%)	69	69

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	28	29


LIQUID LIMIT, LL	70
PLASTIC LIMIT, PL	29
PLASTICITY INDEX, PI	41
AS REC'D MC (%)	31.4



COMMENTS

No comments.

REPORT DATE 2026.Feb.09

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 1

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.03

SAMPLED BY: Stantec Consulting Ltd.

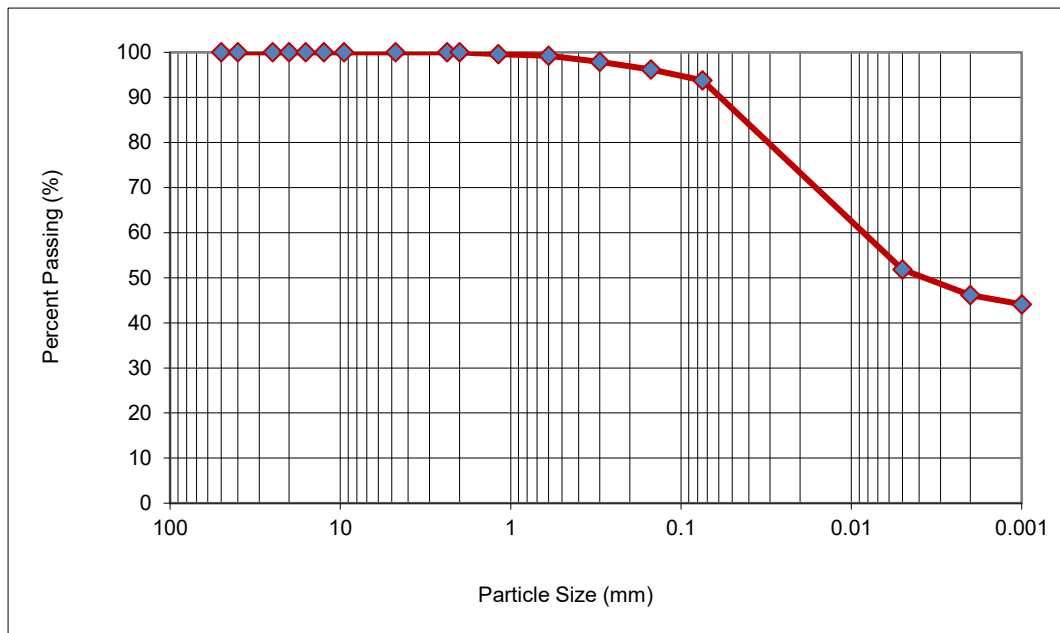
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Larry Presado

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-204, 0.7 m

STANTEC SAMPLE NO. 2775



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	100.0
1.18	99.6
0.600	99.2
0.300	97.9
0.150	96.2
0.075	93.8
0.005	51.8
0.002	46.2
0.001	44.1

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	1.5	4.7	47.6	46.2	44.1

COMMENTS

No comments.



REPORT DATE 2026.Feb.09

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 2

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.03

SAMPLED BY: Stantec Consulting Ltd.

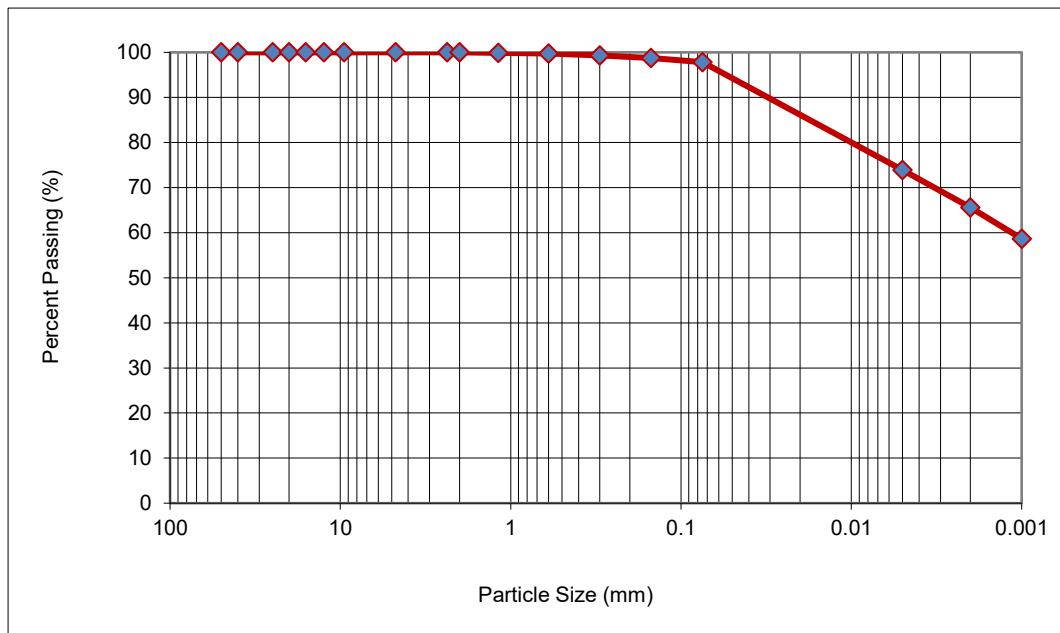
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Larry Presado

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-205, 0.7 m

STANTEC SAMPLE NO. 2776



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	100.0
1.18	99.9
0.600	99.7
0.300	99.3
0.150	98.8
0.075	97.8
0.005	73.9
0.002	65.6
0.001	58.7

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	0.5	1.7	32.2	65.6	58.7

COMMENTS

No comments.



REPORT DATE 2026.Feb.09

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 3

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.03

SAMPLED BY: Stantec Consulting Ltd.

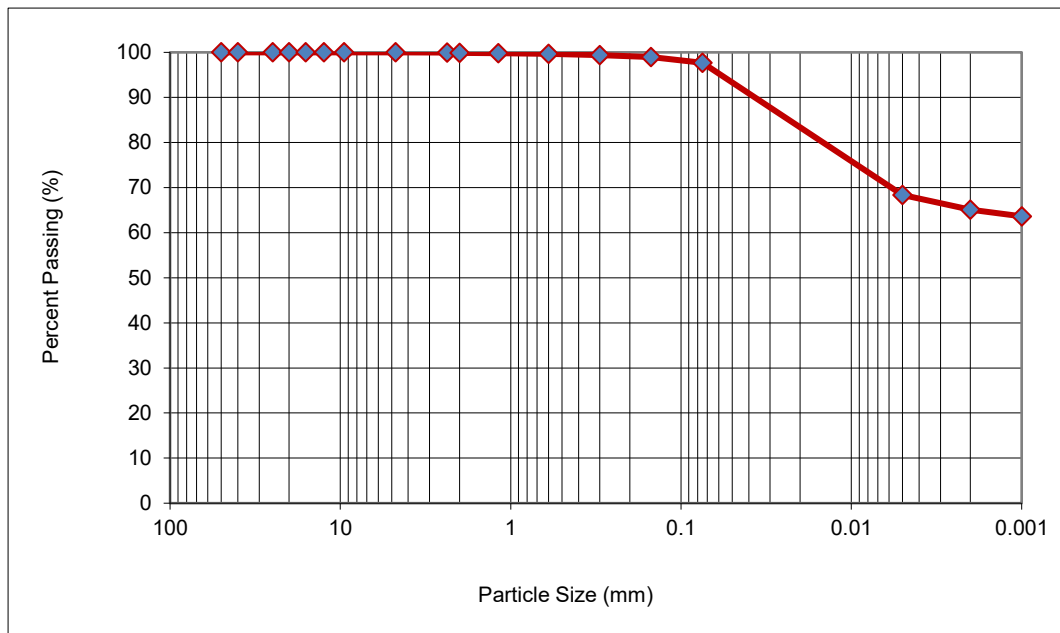
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Larry Presado

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-206, 0.7 m

STANTEC SAMPLE NO. 2777



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	99.9
2.00	99.9
1.18	99.8
0.600	99.7
0.300	99.4
0.150	99.0
0.075	97.7
0.005	68.3
0.002	65.1
0.001	63.6

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.1	0.4	1.8	32.6	65.1	63.6

COMMENTS

No comments.



REPORT DATE 2026.Feb.09

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 4

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.03

SAMPLED BY: Stantec Consulting Ltd.

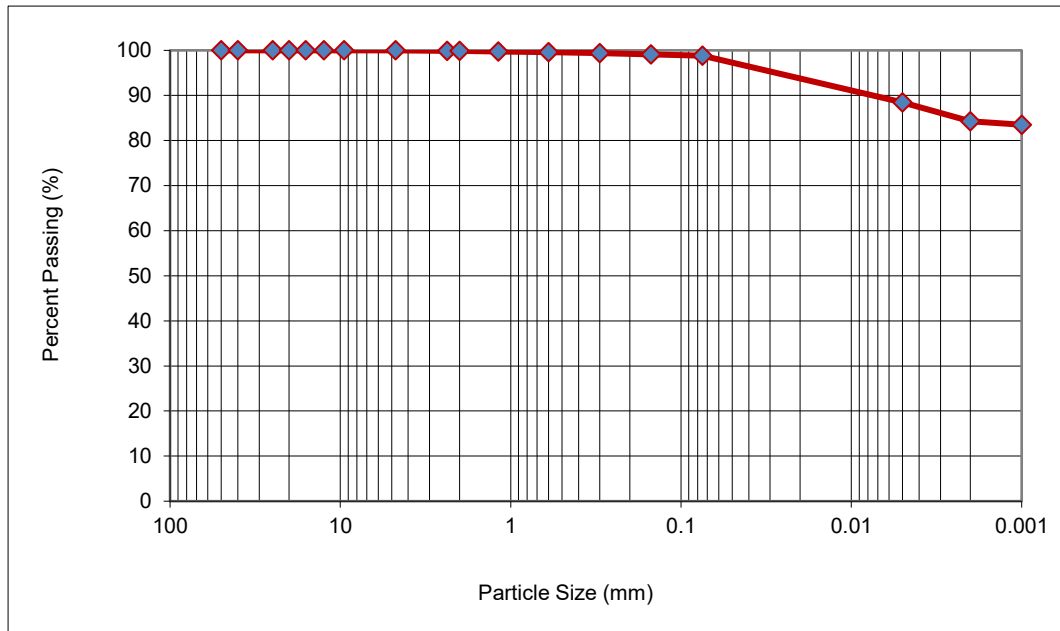
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Larry Presado

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-207, 0.7 m

STANTEC SAMPLE NO. 2778



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	99.9
2.00	99.9
1.18	99.8
0.600	99.6
0.300	99.4
0.150	99.1
0.075	98.8
0.005	88.5
0.002	84.2
0.001	83.5

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.1	0.4	0.7	14.6	84.2	83.5

COMMENTS

No comments.



REPORT DATE 2026.Feb.09

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 5

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.03

SAMPLED BY: Stantec Consulting Ltd.

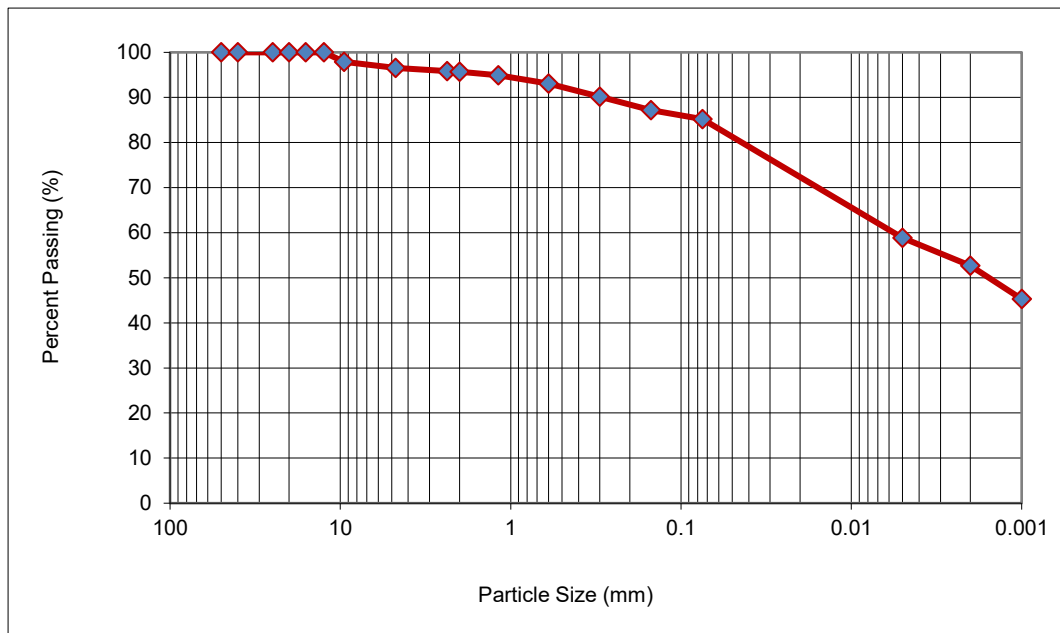
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Larry Presado

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-208, 0.7 m

STANTEC SAMPLE NO. 2779



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	97.9
4.75	96.5
2.36	95.9
2.00	95.7
1.18	94.9
0.600	93.1
0.300	90.1
0.150	87.2
0.075	85.2
0.005	58.8
0.002	52.7
0.001	45.3

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
3.5	0.8	4.3	6.2	32.5	52.7	45.3

COMMENTS

No comments.



REPORT DATE 2026.Feb.09

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 6

DATE SAMPLED: 2026.Jan.27

DATE RECEIVED: 2026.Jan.27

DATE TESTED: 2026.Feb.04

SAMPLED BY: Stantec Consulting Ltd.

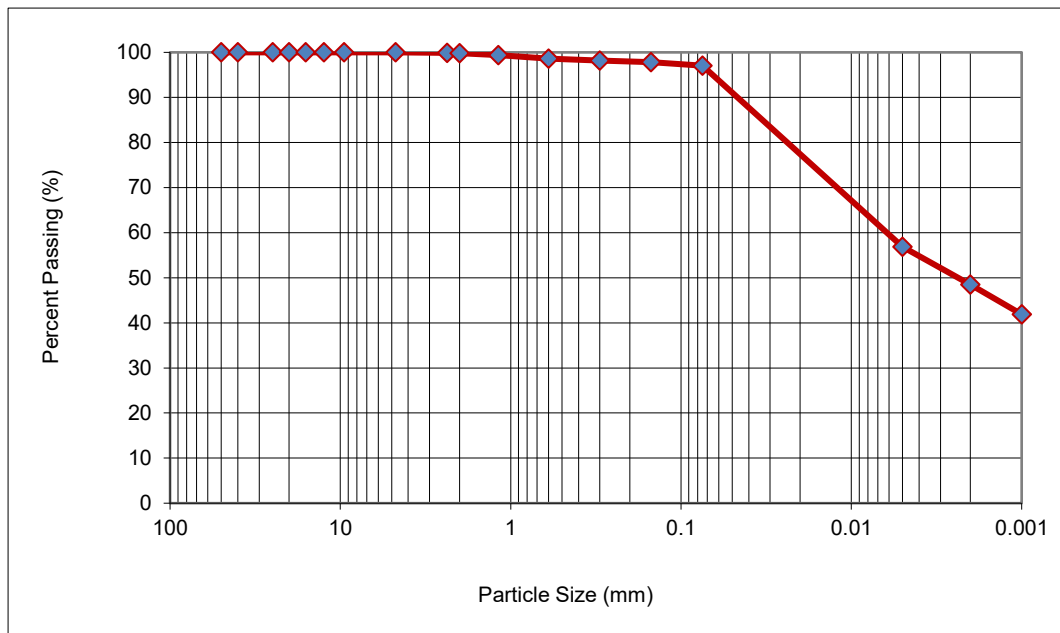
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Larry Presado

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-210, 0.7 m

STANTEC SAMPLE NO. 2780



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	99.9
2.00	99.8
1.18	99.4
0.600	98.6
0.300	98.2
0.150	97.8
0.075	97.0
0.005	56.9
0.002	48.5
0.001	41.9

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.2	1.5	1.3	48.5	48.5	41.9

COMMENTS

No comments.



REPORT DATE 2026.Feb.09

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 7

DATE SAMPLED: 2026.Jan.27

DATE RECEIVED: 2026.Jan.27

DATE TESTED: 2026.Feb.04

SAMPLED BY: Stantec Consulting Ltd.

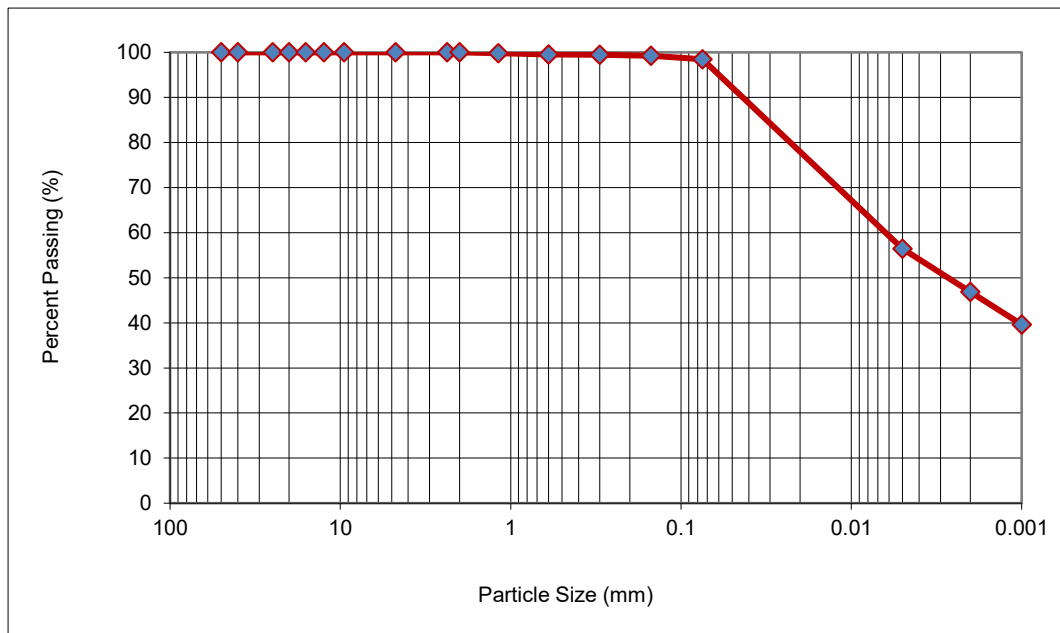
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Larry Presado

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-215, 0.7 m

STANTEC SAMPLE NO. 2781



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	100.0
1.18	99.8
0.600	99.6
0.300	99.4
0.150	99.2
0.075	98.4
0.005	56.5
0.002	46.9
0.001	39.6

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	0.5	1.1	51.5	46.9	39.6

COMMENTS

No comments.



REPORT DATE 2026.Feb.09

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 8

DATE SAMPLED: 2026.Jan.27

DATE RECEIVED: 2026.Jan.27

DATE TESTED: 2026.Feb.04

SAMPLED BY: Stantec Consulting Ltd.

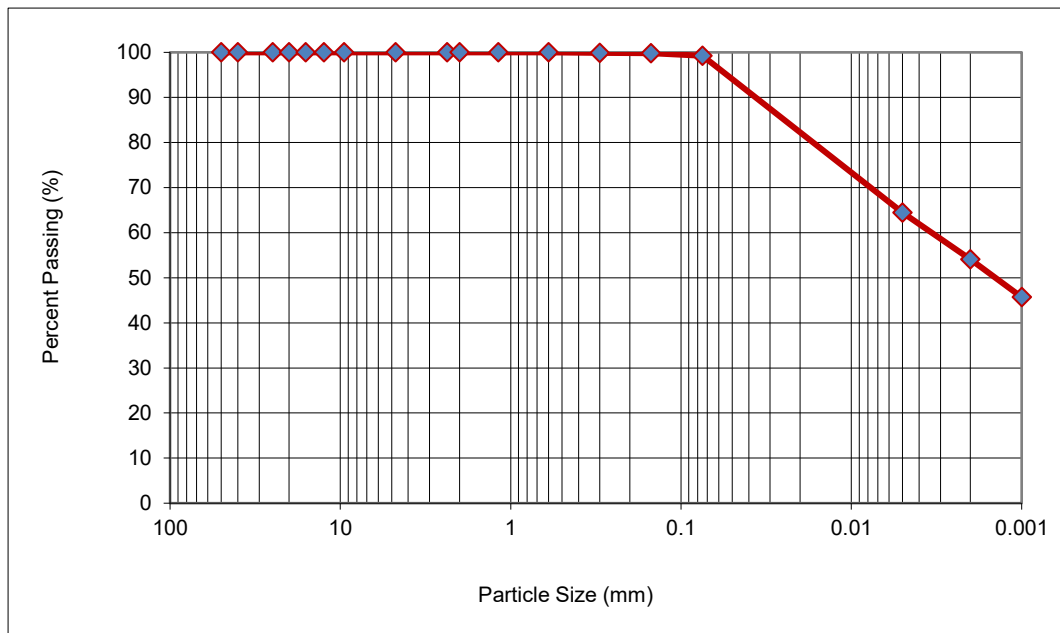
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Larry Presado

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-217, 0.7 m

STANTEC SAMPLE NO. 2782



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	100.0
1.18	100.0
0.600	100.0
0.300	99.9
0.150	99.8
0.075	99.3
0.005	64.5
0.002	54.1
0.001	45.7

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	0.1	0.6	45.2	54.1	45.7

COMMENTS

No comments.



REPORT DATE 2026.Feb.09

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 9

DATE SAMPLED: 2026.Jan.27

DATE RECEIVED: 2026.Jan.27

DATE TESTED: 2026.Feb.04

SAMPLED BY: Stantec Consulting Ltd.

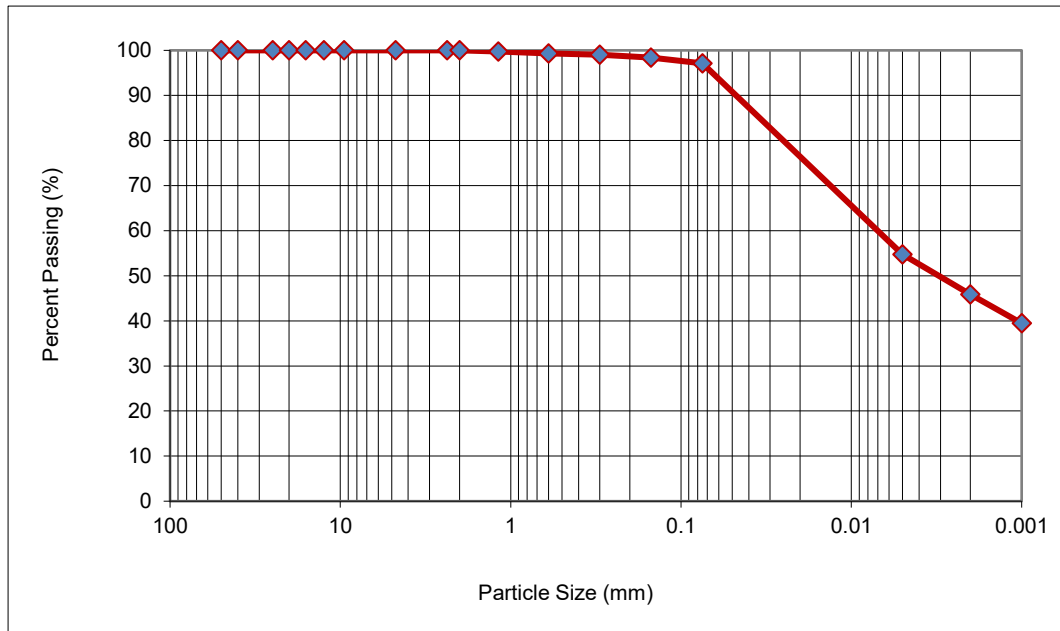
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Larry Presado

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-218, 0.7 m

STANTEC SAMPLE NO. 2783



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	100.0
1.18	99.7
0.600	99.3
0.300	99.0
0.150	98.4
0.075	97.1
0.005	54.7
0.002	45.9
0.001	39.5

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	0.9	2.0	51.2	45.9	39.5

COMMENTS

No comments.



REPORT DATE 2026.Feb.09

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 10

DATE SAMPLED: 2026.Jan.27

DATE RECEIVED: 2026.Jan.27

DATE TESTED: 2026.Feb.04

SAMPLED BY: Stantec Consulting Ltd.

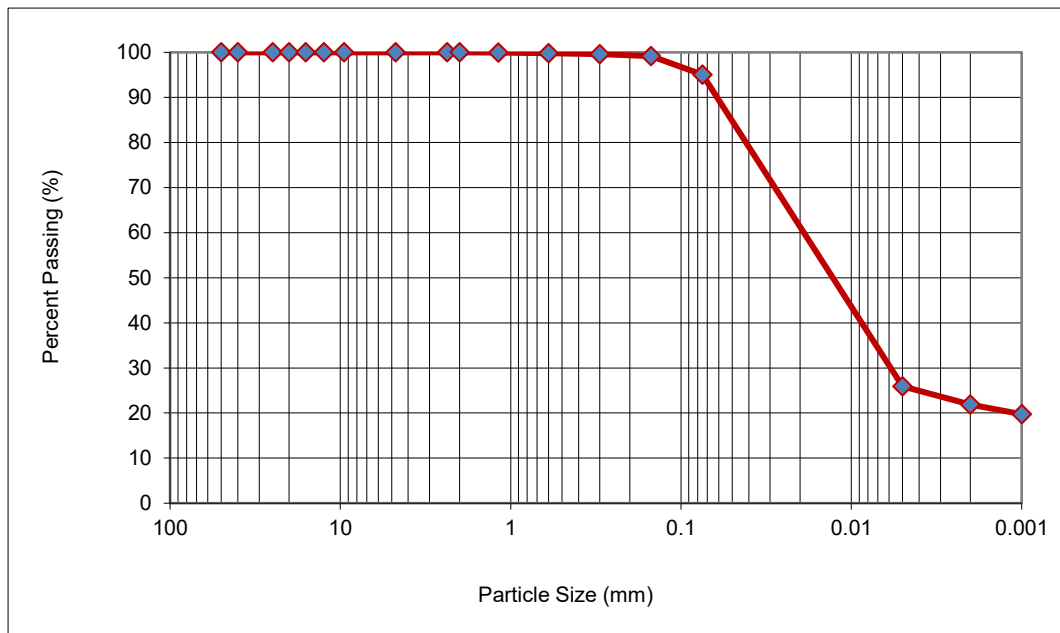
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Larry Presado

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-221, 0.7 m

STANTEC SAMPLE NO. 2784



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	100.0
1.18	100.0
0.600	99.8
0.300	99.6
0.150	99.2
0.075	95.0
0.005	25.9
0.002	21.9
0.001	19.7

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	0.3	4.7	73.1	21.9	19.7

COMMENTS

No comments.



REPORT DATE 2026.Feb.09

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Street Renewal Program (26-R-10)

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 11

DATE SAMPLED: 2026.Jan.27

DATE RECEIVED: 2026.Jan.27

DATE TESTED: 2026.Feb.04

SAMPLED BY: Stantec Consulting Ltd.

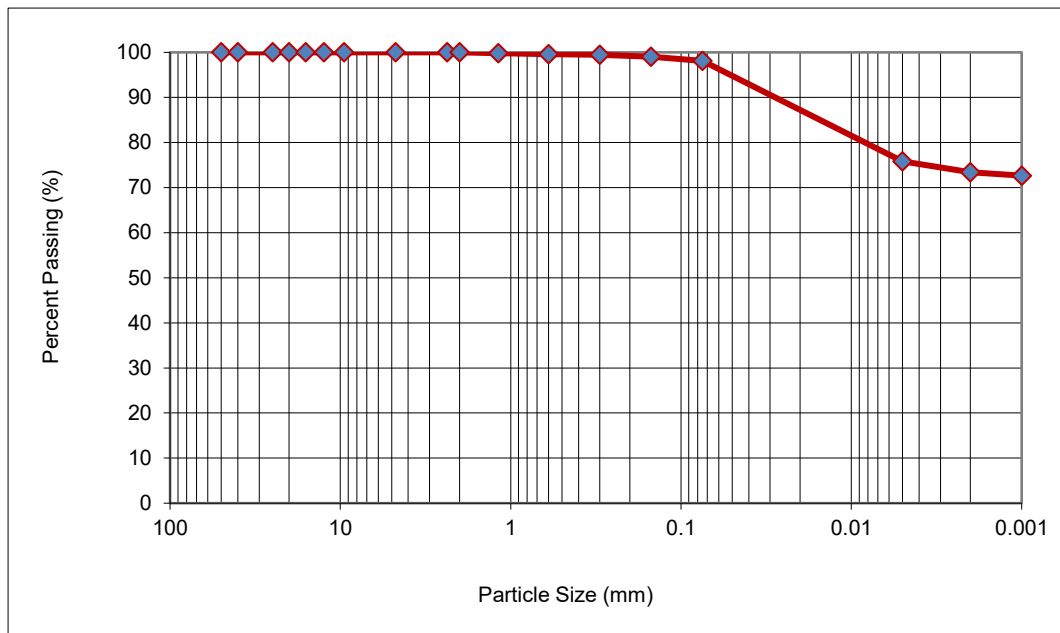
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Larry Presado

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-224, 0.8 m

STANTEC SAMPLE NO. 2785



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	100.0
1.18	99.8
0.600	99.6
0.300	99.5
0.150	99.1
0.075	98.1
0.005	75.8
0.002	73.4
0.001	72.7

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	0.5	1.4	24.7	73.4	72.7

COMMENTS

No comments.



REPORT DATE 2026.Feb.09

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

PROCTOR TEST REPORT

TO Stantec Consulting Ltd.
500 - 311 Portage Ave.
Winnipeg, MB
R3B 2B9

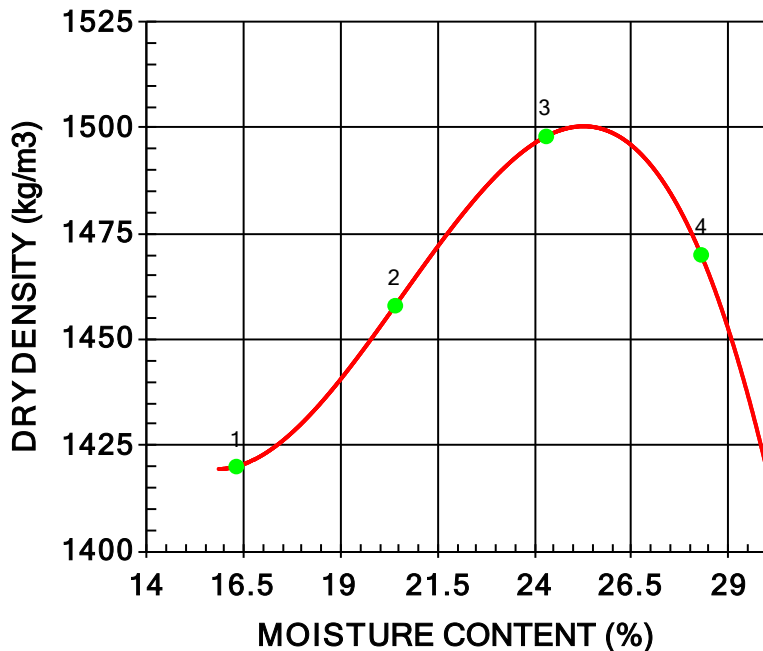
CLIENT Stantec Consulting Ltd.
C.C.

ATTN: Ron Bruce

PROJECT 2026 Local Streets Package - 26-R-10

PROJECT NO. 132501009
PROCTOR NO. 1 DATE SAMPLED 2026.Jan.26 DATE RECEIVED 2026.Jan.26 DATE TESTED 2026.Feb.03

INSITU MOISTURE	31.5 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Manual
SIZE	Lean Clay (CL)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Materials	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-204, 0.7 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1651	1420	16.3
2	1756	1458	20.4
3	1862	1498	24.3
4	1886	1470	28.3

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1500	25.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2775.

PROCTOR TEST REPORT

TO Stantec Consulting Ltd.
500 - 311 Portage Ave.
Winnipeg, MB
R3B 2B9

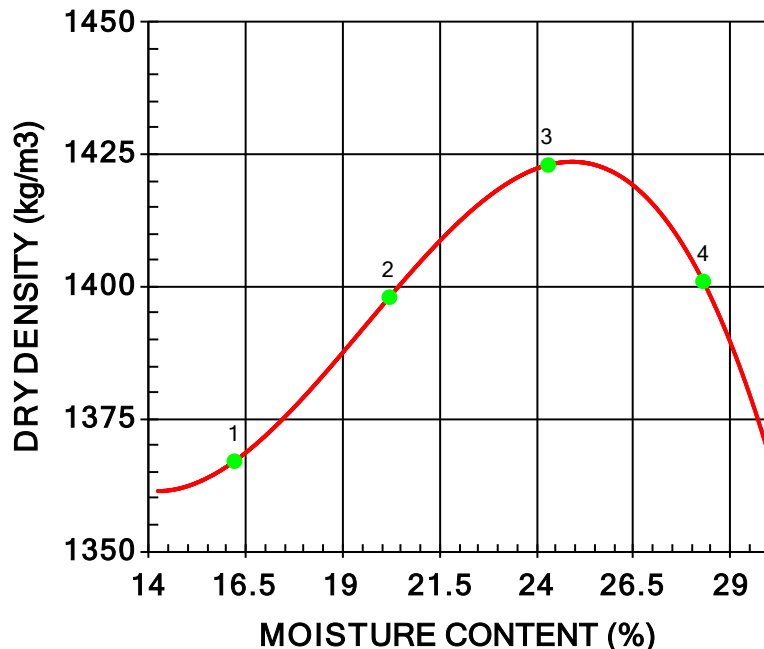
CLIENT Stantec Consulting Ltd.
C.C.

ATTN: Ron Bruce

PROJECT 2026 Local Streets Package - 26-R-10

PROJECT NO. 132501009
PROCTOR NO. 2 DATE SAMPLED 2026.Jan.26 DATE RECEIVED 2026.Jan.26 DATE TESTED 2026.Feb.03

INSITU MOISTURE	37.4 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Manual
SIZE	Fat Clay (CH)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Materials	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-205, 0.7 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1589	1367	16.2
2	1680	1398	20.2
3	1769	1423	24.3
4	1798	1401	28.3

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1420	25.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2776.

PROCTOR TEST REPORT

TO Stantec Consulting Ltd.
500 - 311 Portage Ave.
Winnipeg, MB
R3B 2B9

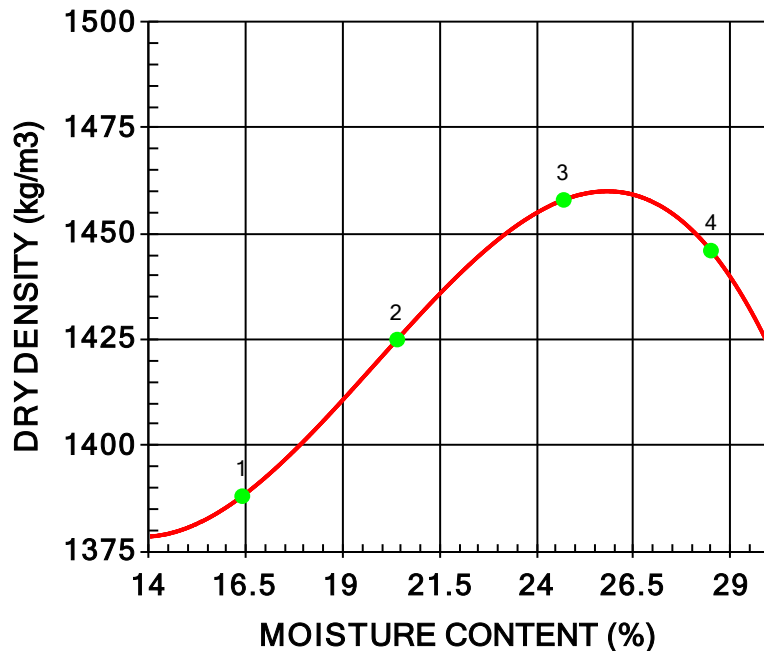
CLIENT Stantec Consulting Ltd.
C.C.

ATTN: Ron Bruce

PROJECT 2026 Local Streets Package - 26-R-10

PROJECT NO. 132501009
PROCTOR NO. 3 DATE SAMPLED 2026.Jan.26 DATE RECEIVED 2026.Jan.26 DATE TESTED 2026.Feb.03

INSITU MOISTURE	29.2 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade		
SIZE	Fat Clay (CH)	RAMMER TYPE	Manual
DESCRIPTION		PREPARATION	Moist
SUPPLIER	Existing Materials	OVERSIZE CORRECTION METHOD	None
SOURCE	BH-206, 0.7 m below grade	RETAINED 4.75mm SCREEN	N/A %



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1616	1388	16.4
2	1716	1425	20.4
3	1818	1458	24.7
4	1858	1446	28.5

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1460	26.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2777.

PROCTOR TEST REPORT

TO Stantec Consulting Ltd.
500 - 311 Portage Ave.
Winnipeg, MB
R3B 2B9

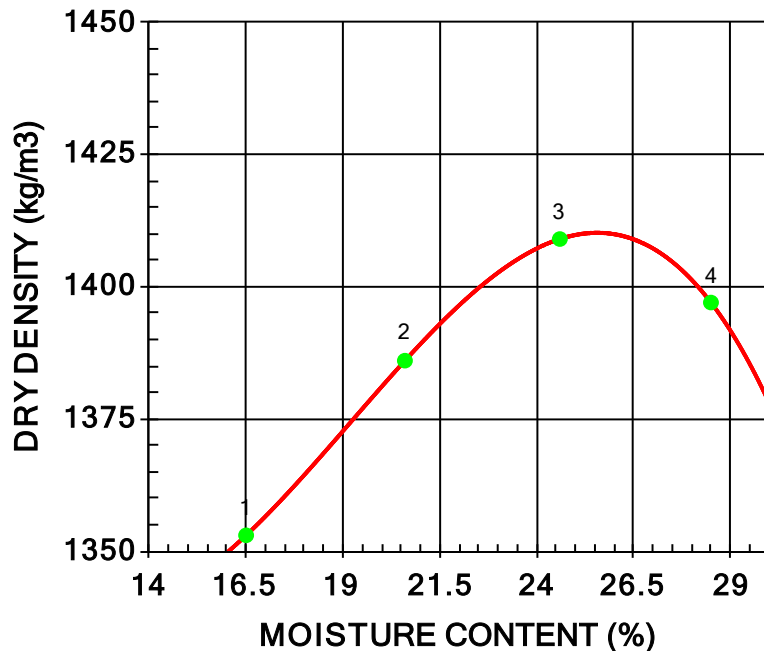
CLIENT Stantec Consulting Ltd.
C.C.

ATTN: Ron Bruce

PROJECT 2026 Local Streets Package - 26-R-10

PROJECT NO. 132501009
PROCTOR NO. 4 DATE SAMPLED 2026.Jan.26 DATE RECEIVED 2026.Jan.26 DATE TESTED 2026.Feb.04

INSITU MOISTURE	39.0 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade		
SIZE	Fat Clay (CH)	RAMMER TYPE	Manual
DESCRIPTION		PREPARATION	Moist
SUPPLIER	Existing Materials	OVERSIZE CORRECTION METHOD	None
SOURCE	BH-207, 0.7 m below grade	RETAINED 4.75mm SCREEN	N/A %



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1576	1353	16.5
2	1672	1386	20.6
3	1755	1409	24.6
4	1795	1397	28.5

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1410	25.5
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2778.

PROCTOR TEST REPORT

TO Stantec Consulting Ltd.
500 - 311 Portage Ave.
Winnipeg, MB
R3B 2B9

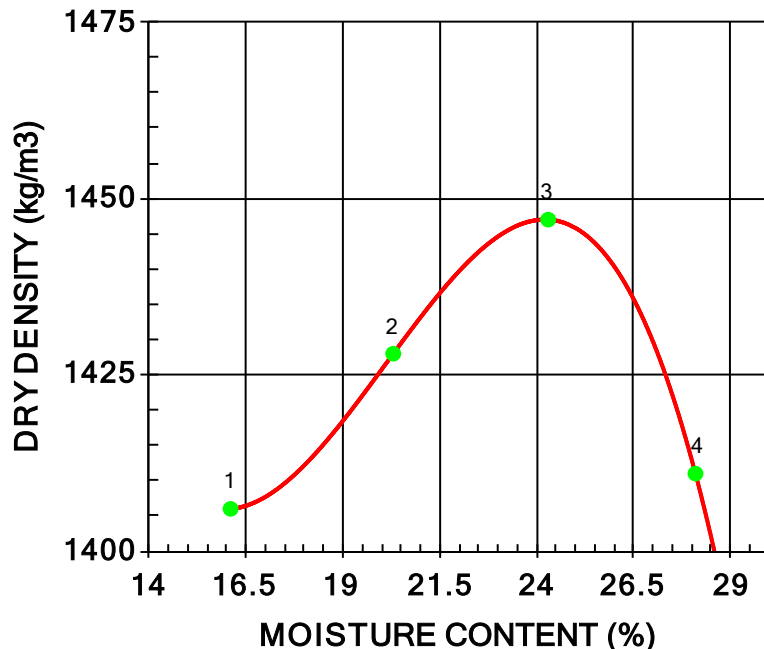
CLIENT Stantec Consulting Ltd.
C.C.

ATTN: Ron Bruce

PROJECT 2026 Local Streets Package - 26-R-10

PROJECT NO. 132501009
PROCTOR NO. 5 DATE SAMPLED 2026.Jan.26 DATE RECEIVED 2026.Jan.26 DATE TESTED 2026.Feb.04

INSITU MOISTURE	35.2 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade		
SIZE	Fat Clay (CH)	RAMMER TYPE	Manual
DESCRIPTION		PREPARATION	Moist
SUPPLIER	Existing Materials	OVERSIZE CORRECTION METHOD	None
SOURCE	BH-208, 0.7 m below grade	RETAINED 4.75mm SCREEN	N/A %



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1632	1406	16.1
2	1718	1428	20.3
3	1798	1447	24.3
4	1807	1411	28.1

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1450	24.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2779.

PROCTOR TEST REPORT

TO Stantec Consulting Ltd.
500 - 311 Portage Ave.
Winnipeg, MB
R3B 2B9

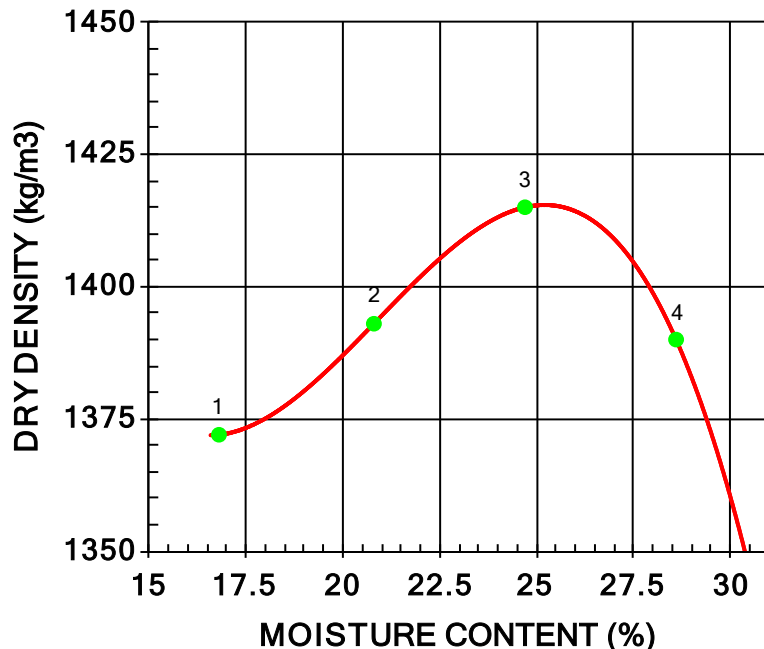
CLIENT Stantec Consulting Ltd.
C.C.

ATTN: Ron Bruce

PROJECT 2026 Local Streets Package - 26-R-10

PROJECT NO. 132501009
PROCTOR NO. 6 DATE SAMPLED 2026.Jan.26 DATE RECEIVED 2026.Jan.26 DATE TESTED 2026.Feb.04

INSITU MOISTURE	32.3 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade		
SIZE	Fat Clay (CH)	RAMMER TYPE	Manual
DESCRIPTION		PREPARATION	Moist
SUPPLIER	Existing Materials	OVERSIZE CORRECTION METHOD	None
SOURCE	BH-210, 0.7 m below grade	RETAINED 4.75mm SCREEN	N/A %



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1603	1372	16.8
2	1683	1393	20.8
3	1764	1415	24.7
4	1787	1390	28.6

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1420	25.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2780.

PROCTOR TEST REPORT

TO Stantec Consulting Ltd.
500 - 311 Portage Ave.
Winnipeg, MB
R3B 2B9

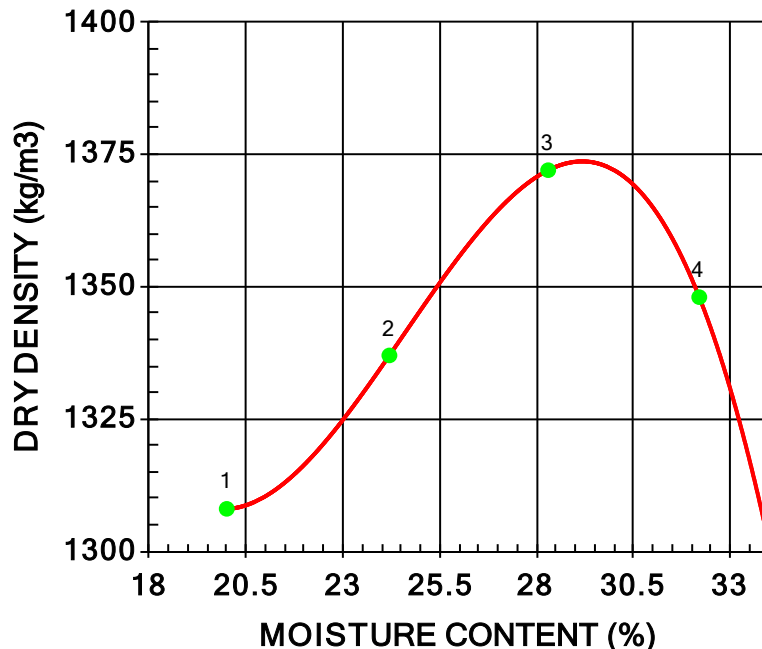
CLIENT Stantec Consulting Ltd.
C.C.

ATTN: Ron Bruce

PROJECT 2026 Local Streets Package - 26-R-10

PROJECT NO. 132501009
PROCTOR NO. 7 DATE SAMPLED 2026.Jan.27 DATE RECEIVED 2026.Jan.27 DATE TESTED 2026.Feb.05

INSITU MOISTURE	33.9 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Automatic
SIZE	Fat Clay (CH)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Material	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-215, 0.7 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1569	1308	20.0
2	1660	1337	24.2
3	1760	1372	28.3
4	1782	1348	32.2

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1370	29.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2781.

PROCTOR TEST REPORT

TO Stantec Consulting Ltd.
500 - 311 Portage Ave.
Winnipeg, MB
R3B 2B9

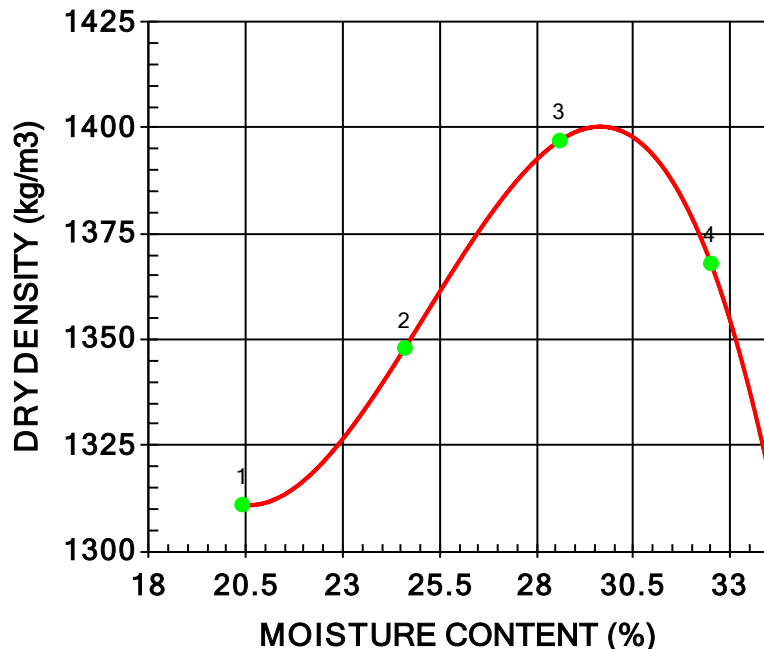
CLIENT Stantec Consulting Ltd.
C.C.

ATTN: Ron Bruce

PROJECT 2026 Local Streets Package - 26-R-10

PROJECT NO. 132501009
PROCTOR NO. 8 DATE SAMPLED 2026.Jan.27 DATE RECEIVED 2026.Jan.27 DATE TESTED 2026.Feb.05

INSITU MOISTURE	33.6 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Automatic
SIZE	Fat Clay (CH)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Material	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-217, 0.7 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1578	1311	20.4
2	1679	1348	24.6
3	1796	1397	28.6
4	1813	1368	32.5

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1400	29.5
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2782.

PROCTOR TEST REPORT

TO Stantec Consulting Ltd.
500 - 311 Portage Ave.
Winnipeg, MB
R3B 2B9

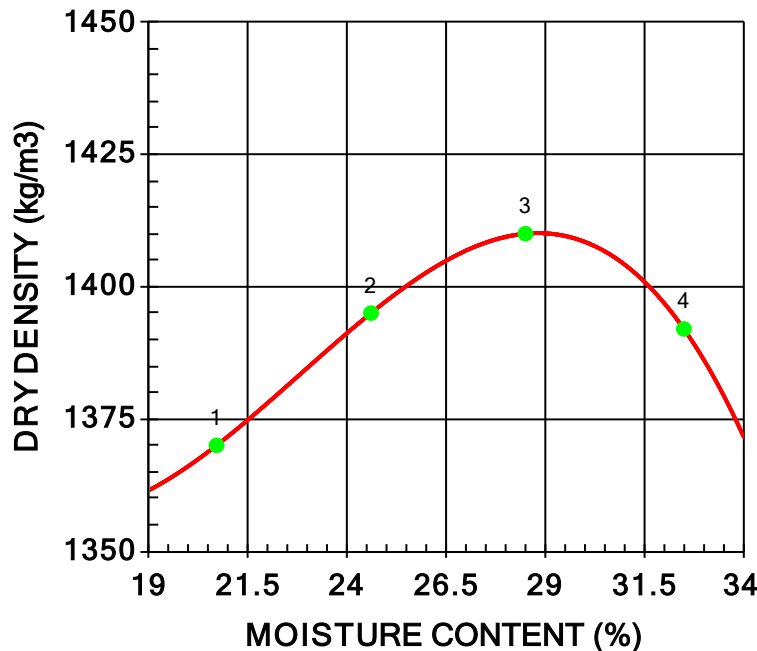
CLIENT Stantec Consulting Ltd.
C.C.

ATTN: Ron Bruce

PROJECT 2026 Local Streets Package - 26-R-10

PROJECT NO. 132501009
PROCTOR NO. 9 DATE SAMPLED 2026.Jan.27 DATE RECEIVED 2026.Jan.27 DATE TESTED 2026.Feb.05

INSITU MOISTURE	30.9 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Automatic
SIZE	Fat Clay (CH)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Material	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-218, 0.7 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1653	1370	20.7
2	1738	1395	24.6
3	1812	1410	28.5
4	1845	1392	32.5

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1410	29.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2783.

PROCTOR TEST REPORT

TO Stantec Consulting Ltd.
500 - 311 Portage Ave.
Winnipeg, MB
R3B 2B9

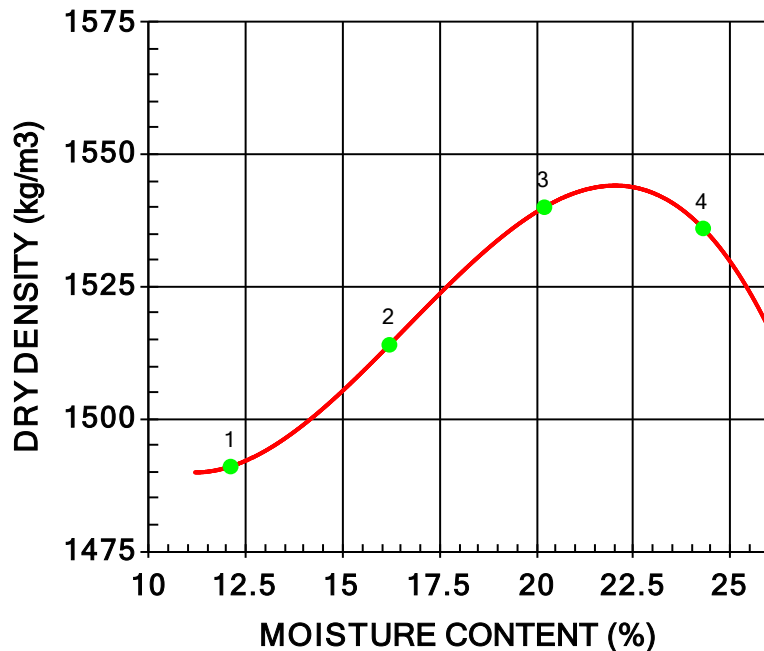
CLIENT Stantec Consulting Ltd.
C.C.

ATTN: Ron Bruce

PROJECT 2026 Local Streets Package - 26-R-10

PROJECT NO. 132501009
PROCTOR NO. 10 DATE SAMPLED 2026.Jan.27 DATE RECEIVED 2026.Jan.27 DATE TESTED 2026.Feb.06

INSITU MOISTURE	33.4 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade		
SIZE	Lean Clay (CL)	RAMMER TYPE	Automatic
DESCRIPTION		PREPARATION	Moist
SUPPLIER	Existing Material	OVERSIZE CORRECTION METHOD	None
SOURCE	BH-221, 0.7 m below grade	RETAINED 4.75mm SCREEN	N/A %



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1671	1491	12.1
2	1759	1514	16.2
3	1851	1540	20.2
4	1909	1536	24.3

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1540	22.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2784.

PROCTOR TEST REPORT

TO Stantec Consulting Ltd.
500 - 311 Portage Ave.
Winnipeg, MB
R3B 2B9

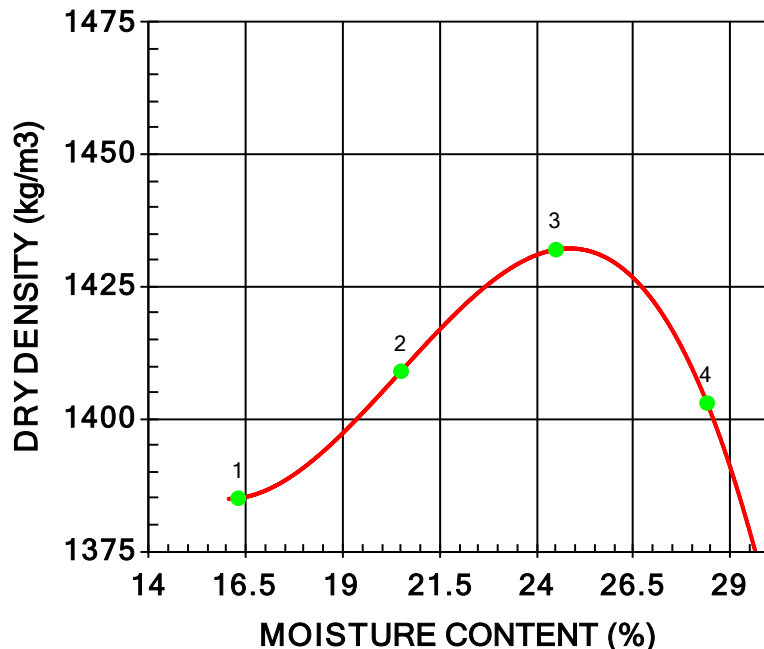
CLIENT Stantec Consulting Ltd.
C.C.

ATTN: Ron Bruce

PROJECT 2026 Local Streets Package - 26-R-10

PROJECT NO. 132501009
PROCTOR NO. 11 DATE SAMPLED 2026.Jan.27 DATE RECEIVED 2026.Jan.27 DATE TESTED 2026.Feb.06

INSITU MOISTURE	31.8 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade		
SIZE	Fat Clay (CH)	RAMMER TYPE	Automatic
DESCRIPTION		PREPARATION	Moist
SUPPLIER	Existing Material	OVERSIZE CORRECTION METHOD	None
SOURCE	BH-224, 0.8 m below grade	RETAINED 4.75mm SCREEN	N/A %



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1611	1385	16.3
2	1698	1409	20.5
3	1783	1432	24.5
4	1802	1403	28.4

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1430	25.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2785.

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Streets Package
26-R-10

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 1

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.06

SAMPLED BY: Stantec Consulting Ltd.

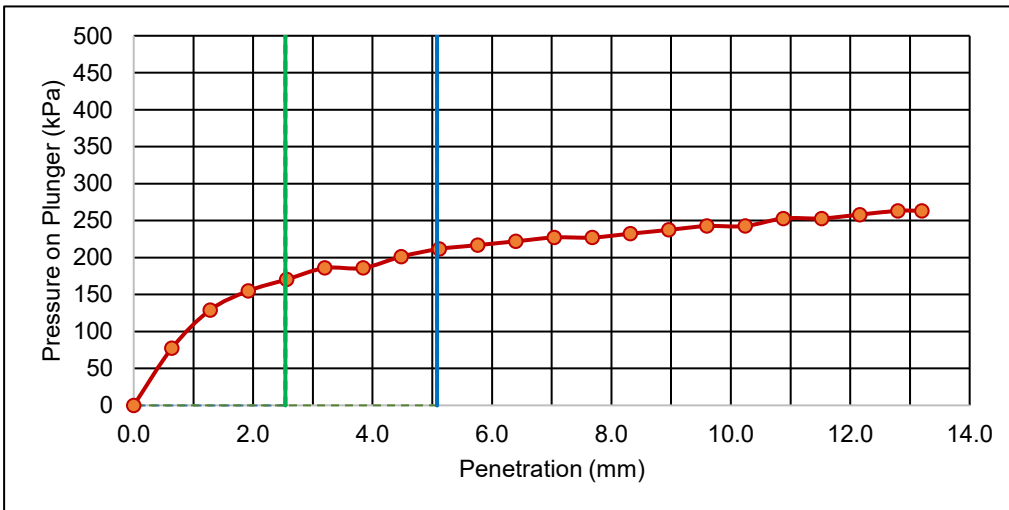
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE	Subgrade	SUPPLIER	Existing Material
MAX. NOMINAL SIZE	< 4.75 mm	SOURCE	Bore Hole
MATERIAL TYPE	Lean Clay (CL)	SAMPLE LOCATION	BH-204, 0.7 m
SPECIFICATION ID	Not Applicable	STANTEC SAMPLE NO.	2775

IMMERSION PERIOD	96 ± 2 hr	TARGET MAX. DRY DENSITY	1500 kg/m ³
CONDITION OF SAMPLE	Soaked	TARGET OPTIMUM MOISTURE	25.0 %
SURCHARGE MASS	4.54 kg		
+19 mm OVERSIZE	0 %	AS-COMPACTED DRY DENSITY	1425 kg/m ³
SWELL OF SAMPLE	1.56 %	AS-COMPACTED MOISTURE	25.0 %
POST-TEST MOISTURE	33.9 %	AS-COMPACTED % COMPACTION	95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
2.5

**CBR VALUE AT 5.08 mm
PENETRATION**
2.1

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.11

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Stantec Consulting Ltd.
500 - 311 Portage Avenue
Winnipeg, Manitoba
R3B 2B9

PROJECT 2026 Local Streets Package
26-R-10

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 2

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.06

SAMPLED BY: Stantec Consulting Ltd.

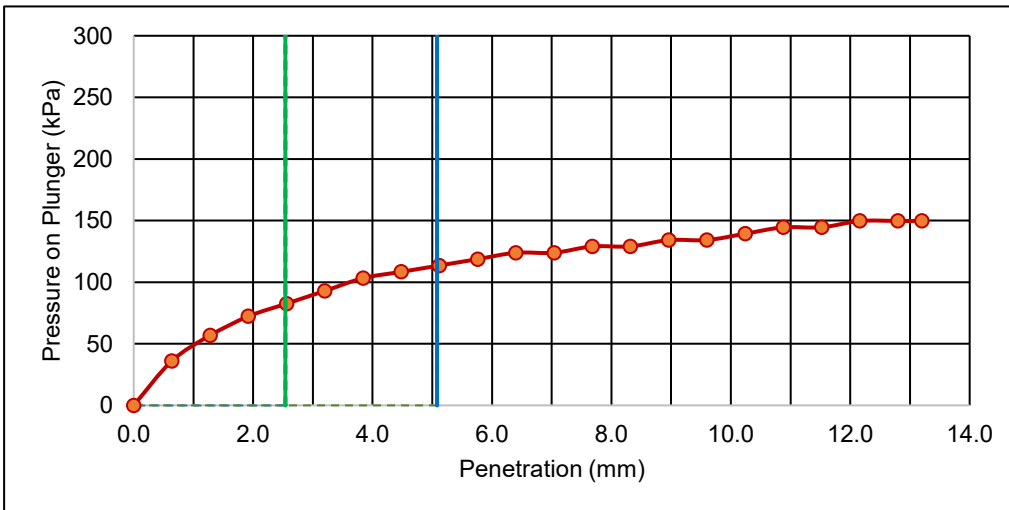
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE	Subgrade	SUPPLIER	Existing Material
MAX. NOMINAL SIZE	< 4.75 mm	SOURCE	Bore Hole
MATERIAL TYPE	Fat Clay (CH)	SAMPLE LOCATION	BH-205, 0.7 m
SPECIFICATION ID	Not Applicable	STANTEC SAMPLE NO.	2776

IMMERSION PERIOD	96 ± 2 hr	TARGET MAX. DRY DENSITY	1420 kg/m ³
CONDITION OF SAMPLE	Soaked	TARGET OPTIMUM MOISTURE	25.0 %
SURCHARGE MASS	4.54 kg		
+19 mm OVERSIZE	0 %	AS-COMPACTED DRY DENSITY	1348 kg/m ³
SWELL OF SAMPLE	5.15 %	AS-COMPACTED MOISTURE	25.1 %
POST-TEST MOISTURE	45.3 %	AS-COMPACTED % COMPACTION	95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
1.2

**CBR VALUE AT 5.08 mm
PENETRATION**
1.1

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.11

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

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PROJECT 2026 Local Streets Package
26-R-10

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 3

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.06

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE Subgrade
MAX. NOMINAL SIZE < 4.75 mm
MATERIAL TYPE Fat Clay (CH)
SPECIFICATION ID Not Applicable

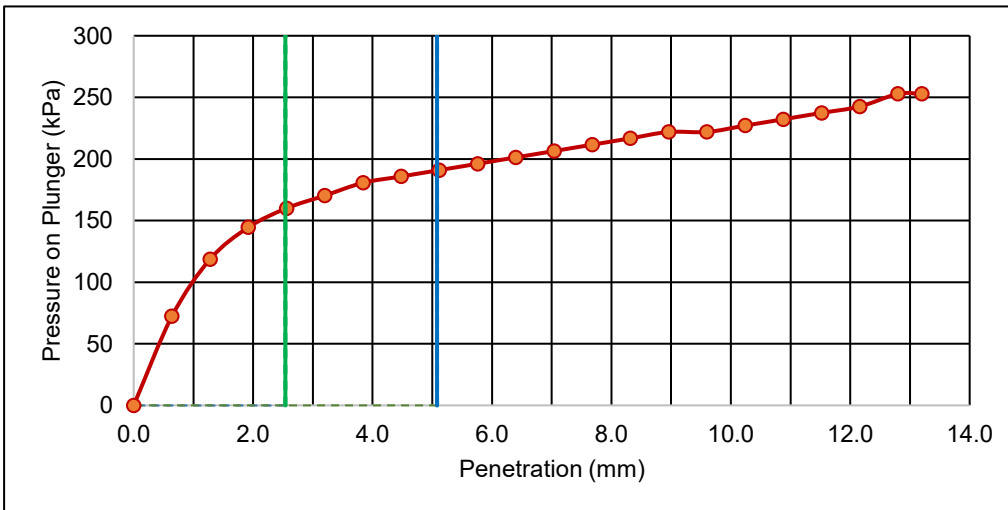
SUPPLIER Existing Material
SOURCE Bore Hole
SAMPLE LOCATION BH-206, 0.7 m
STANTEC SAMPLE NO. 2777

IMMERSION PERIOD 96 ± 2 hr
CONDITION OF SAMPLE Soaked
SURCHARGE MASS 4.54 kg

TARGET MAX. DRY DENSITY 1460 kg/m³
TARGET OPTIMUM MOISTURE 25.0 %

+19 mm OVERSIZE 0 %
SWELL OF SAMPLE 1.42 %
POST-TEST MOISTURE 35.1 %

AS-COMPACTED DRY DENSITY 1386 kg/m³
AS-COMPACTED MOISTURE 26.1 %
AS-COMPACTED % COMPACTION 95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
2.3

**CBR VALUE AT 5.08 mm
PENETRATION**
1.9

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.11

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

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PROJECT 2026 Local Streets Package
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PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 4

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.06

SAMPLED BY: Stantec Consulting Ltd.

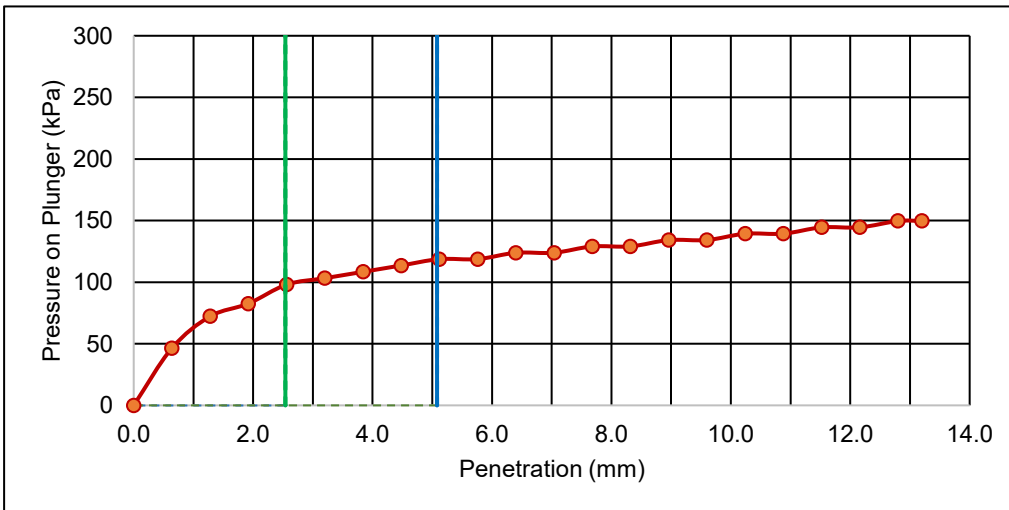
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE	Subgrade	SUPPLIER	Existing Material
MAX. NOMINAL SIZE	< 4.75 mm	SOURCE	Bore Hole
MATERIAL TYPE	Fat Clay (CH)	SAMPLE LOCATION	BH-207, 0.7 m
SPECIFICATION ID	Not Applicable	STANTEC SAMPLE NO.	2778

IMMERSION PERIOD	96 ± 2 hr	TARGET MAX. DRY DENSITY	1410 kg/m ³
CONDITION OF SAMPLE	Soaked	TARGET OPTIMUM MOISTURE	25.5 %
SURCHARGE MASS	4.54 kg		
+19 mm OVERSIZE	0 %	AS-COMPACTED DRY DENSITY	1340 kg/m ³
SWELL OF SAMPLE	5.06 %	AS-COMPACTED MOISTURE	25.4 %
POST-TEST MOISTURE	44.1 %	AS-COMPACTED % COMPACTION	95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
1.4

**CBR VALUE AT 5.08 mm
PENETRATION**
1.2

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.11

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

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PROJECT 2026 Local Streets Package
26-R-10

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 5

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.06

SAMPLED BY: Stantec Consulting Ltd.

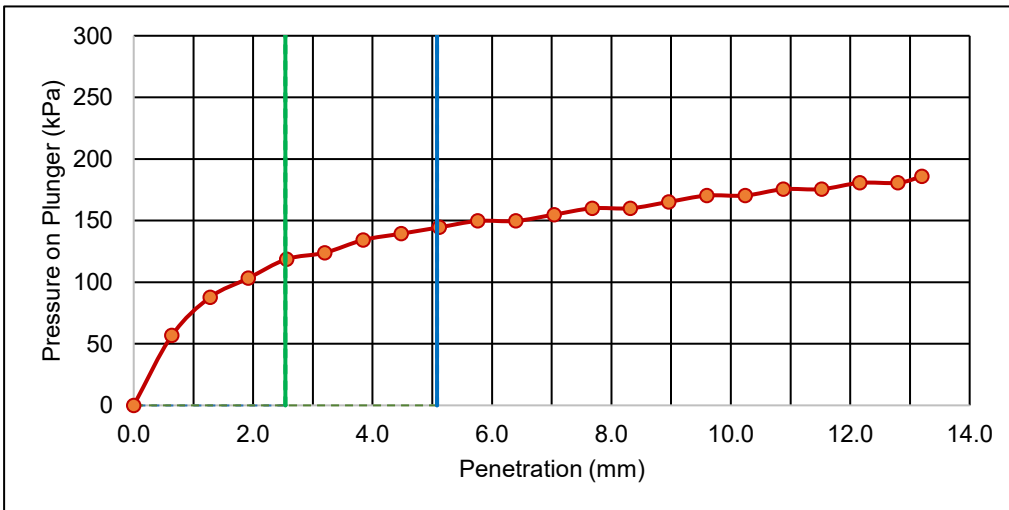
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE	Subgrade	SUPPLIER	Existing Material
MAX. NOMINAL SIZE	< 4.75 mm	SOURCE	Bore Hole
MATERIAL TYPE	Fat Clay (CH)	SAMPLE LOCATION	BH-208, 0.7 m
SPECIFICATION ID	Not Applicable	STANTEC SAMPLE NO.	2779

IMMERSION PERIOD	96 ± 2 hr	TARGET MAX. DRY DENSITY	1450 kg/m ³
CONDITION OF SAMPLE	Soaked	TARGET OPTIMUM MOISTURE	24.0 %
SURCHARGE MASS	4.54 kg		
+19 mm OVERSIZE	0 %	AS-COMPACTED DRY DENSITY	1377 kg/m ³
SWELL OF SAMPLE	3.48 %	AS-COMPACTED MOISTURE	24.1 %
POST-TEST MOISTURE	39.9 %	AS-COMPACTED % COMPACTION	95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
1.7

**CBR VALUE AT 5.08 mm
PENETRATION**
1.4

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.11

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

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PROJECT 2026 Local Streets Package
26-R-10

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 6

DATE SAMPLED: 2026.Jan.27

DATE RECEIVED: 2026.Jan.27

DATE TESTED: 2026.Feb.06

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE Subgrade
MAX. NOMINAL SIZE < 4.75 mm
MATERIAL TYPE Fat Clay (CH)
SPECIFICATION ID Not Applicable

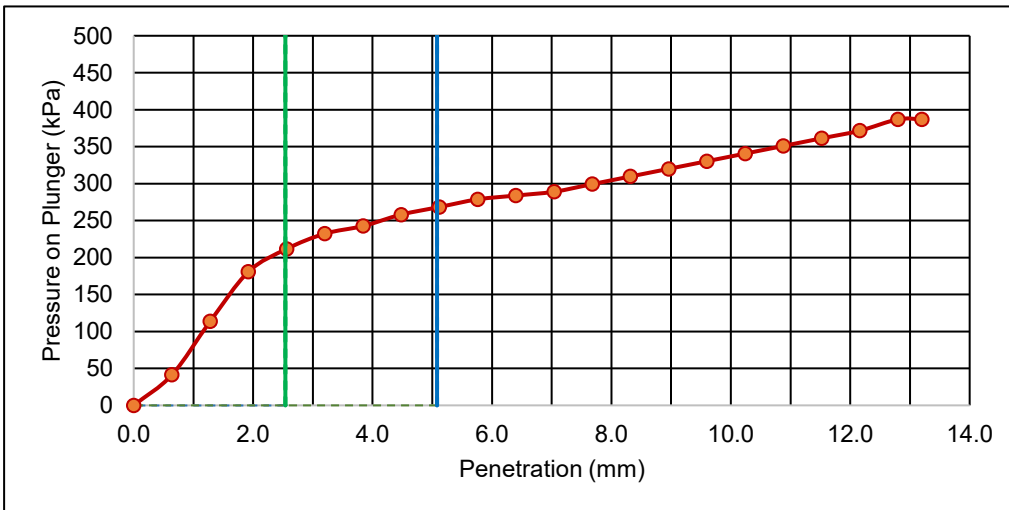
SUPPLIER Existing Material
SOURCE Bore Hole
SAMPLE LOCATION BH-210, 0.7 m
STANTEC SAMPLE NO. 2780

IMMERSION PERIOD 96 ± 2 hr
CONDITION OF SAMPLE Soaked
SURCHARGE MASS 4.54 kg

TARGET MAX. DRY DENSITY 1420 kg/m³
TARGET OPTIMUM MOISTURE 25.0 %

+19 mm OVERSIZE 0 %
SWELL OF SAMPLE 0.47 %
POST-TEST MOISTURE 36.9 %

AS-COMPACTED DRY DENSITY 1351 kg/m³
AS-COMPACTED MOISTURE 24.9 %
AS-COMPACTED % COMPACTION 95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
3.1

**CBR VALUE AT 5.08 mm
PENETRATION**
2.7

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.11

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

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PROJECT 2026 Local Streets Package
26-R-10

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 7

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.07

SAMPLED BY: Stantec Consulting Ltd.

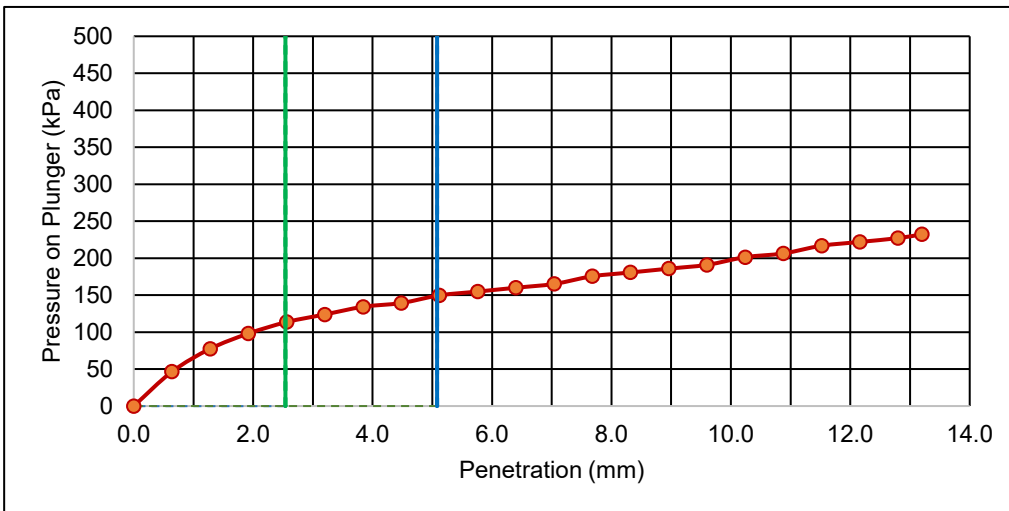
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE	Subgrade	SUPPLIER	Existing Material
MAX. NOMINAL SIZE	< 4.75 mm	SOURCE	Bore Hole
MATERIAL TYPE	Fat Clay (CH)	SAMPLE LOCATION	BH-215, 0.7 m
SPECIFICATION ID	Not Applicable	STANTEC SAMPLE NO.	2781

IMMERSION PERIOD	96 ± 2 hr	TARGET MAX. DRY DENSITY	1370 kg/m ³
CONDITION OF SAMPLE	Soaked	TARGET OPTIMUM MOISTURE	29.0 %
SURCHARGE MASS	4.54 kg		
+19 mm OVERSIZE	0 %	AS-COMPACTED DRY DENSITY	1301 kg/m ³
SWELL OF SAMPLE	3.94 %	AS-COMPACTED MOISTURE	29.1 %
POST-TEST MOISTURE	45.0 %	AS-COMPACTED % COMPACTION	95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
1.6

**CBR VALUE AT 5.08 mm
PENETRATION**
1.5

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.12

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

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PROJECT 2026 Local Streets Package
26-R-10

PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 8

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.07

SAMPLED BY: Stantec Consulting Ltd.

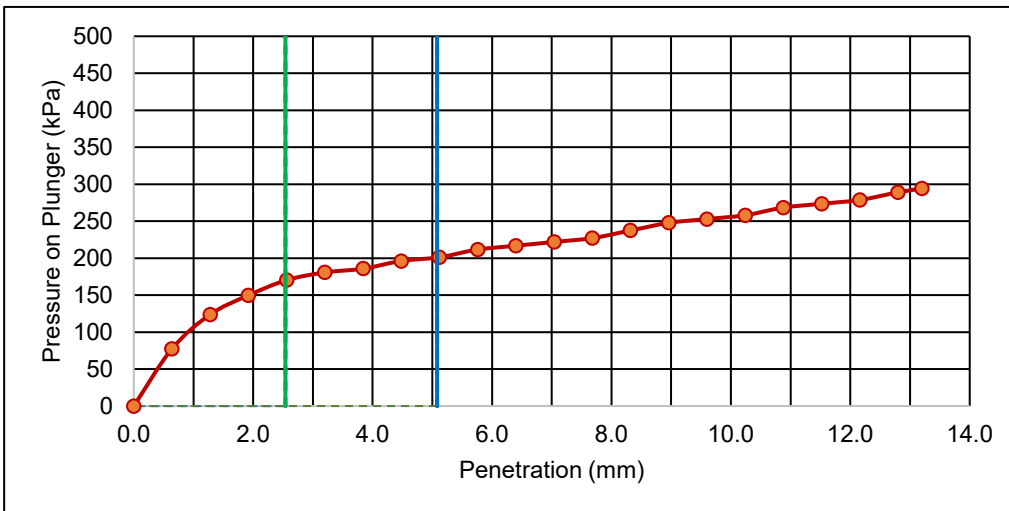
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE	Subgrade	SUPPLIER	Existing Material
MAX. NOMINAL SIZE	< 4.75 mm	SOURCE	Bore Hole
MATERIAL TYPE	Fat Clay (CH)	SAMPLE LOCATION	BH-217, 0.7 m
SPECIFICATION ID	Not Applicable	STANTEC SAMPLE NO.	2782

IMMERSION PERIOD	96 ± 2 hr	TARGET MAX. DRY DENSITY	1400 kg/m ³
CONDITION OF SAMPLE	Soaked	TARGET OPTIMUM MOISTURE	29.5 %
SURCHARGE MASS	4.54 kg		
+19 mm OVERSIZE	0 %	AS-COMPACTED DRY DENSITY	1330 kg/m ³
SWELL OF SAMPLE	3.30 %	AS-COMPACTED MOISTURE	29.6 %
POST-TEST MOISTURE	42.1 %	AS-COMPACTED % COMPACTION	95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
2.5

**CBR VALUE AT 5.08 mm
PENETRATION**
2.0

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.12

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

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PROJECT 2026 Local Streets Package
26-R-10

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ATTN Ron Bruce

REPORT NO. 9

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.07

SAMPLED BY: Stantec Consulting Ltd.

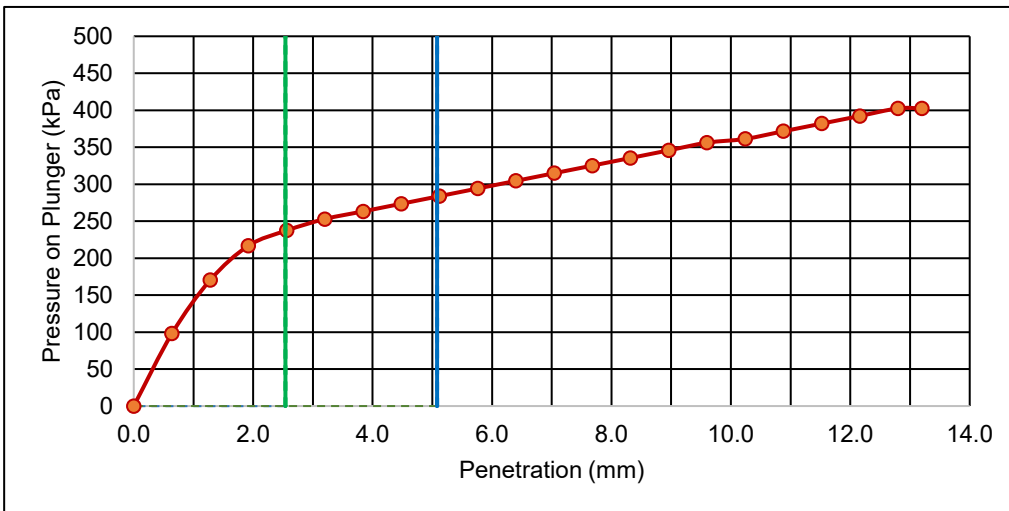
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE	Subgrade	SUPPLIER	Existing Material
MAX. NOMINAL SIZE	< 4.75 mm	SOURCE	Bore Hole
MATERIAL TYPE	Fat Clay (CH)	SAMPLE LOCATION	BH-218, 0.7 m
SPECIFICATION ID	Not Applicable	STANTEC SAMPLE NO.	2783

IMMERSION PERIOD	96 ± 2 hr	TARGET MAX. DRY DENSITY	1410 kg/m ³
CONDITION OF SAMPLE	Soaked	TARGET OPTIMUM MOISTURE	29.0 %
SURCHARGE MASS	4.54 kg		
+19 mm OVERSIZE	0 %	AS-COMPACTED DRY DENSITY	1340 kg/m ³
SWELL OF SAMPLE	1.88 %	AS-COMPACTED MOISTURE	29.0 %
POST-TEST MOISTURE	36.8 %	AS-COMPACTED % COMPACTION	95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
3.4

**CBR VALUE AT 5.08 mm
PENETRATION**
2.8

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.12

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

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ATTN Ron Bruce

REPORT NO. 10

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.07

SAMPLED BY: Stantec Consulting Ltd.

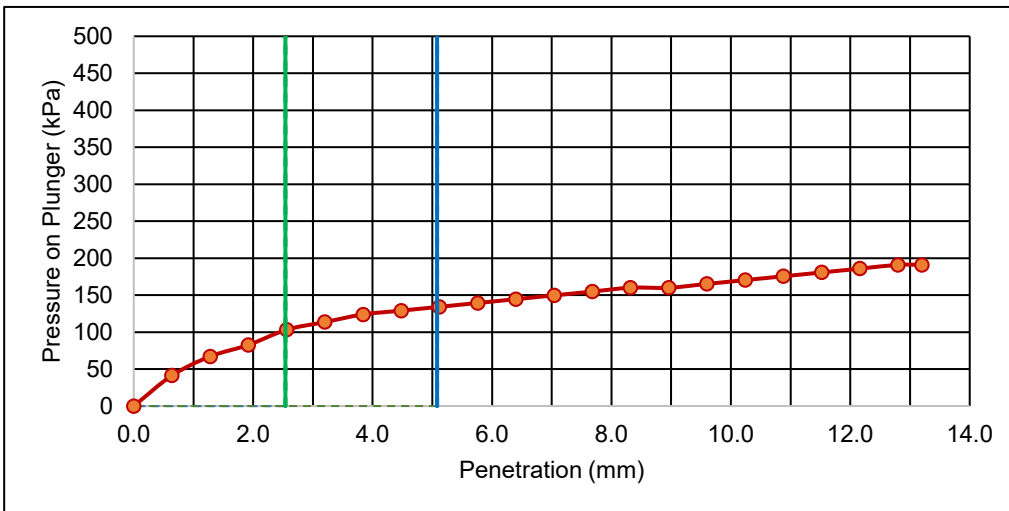
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE	Subgrade	SUPPLIER	Existing Material
MAX. NOMINAL SIZE	< 4.75 mm	SOURCE	Bore Hole
MATERIAL TYPE	LeanClay (CL)	SAMPLE LOCATION	BH-221, 0.7 m
SPECIFICATION ID	Not Applicable	STANTEC SAMPLE NO.	2784

IMMERSION PERIOD	96 ± 2 hr	TARGET MAX. DRY DENSITY	1540 kg/m ³
CONDITION OF SAMPLE	Soaked	TARGET OPTIMUM MOISTURE	22.0 %
SURCHARGE MASS	4.54 kg		
+19 mm OVERSIZE	0 %	AS-COMPACTED DRY DENSITY	1463 kg/m ³
SWELL OF SAMPLE	4.78 %	AS-COMPACTED MOISTURE	22.0 %
POST-TEST MOISTURE	37.4 %	AS-COMPACTED % COMPACTION	95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
1.5

**CBR VALUE AT 5.08 mm
PENETRATION**
1.3

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.12

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

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PROJECT NO. 132501009

ATTN Ron Bruce

REPORT NO. 11

DATE SAMPLED: 2026.Jan.26

DATE RECEIVED: 2026.Jan.26

DATE TESTED: 2026.Feb.07

SAMPLED BY: Stantec Consulting Ltd.

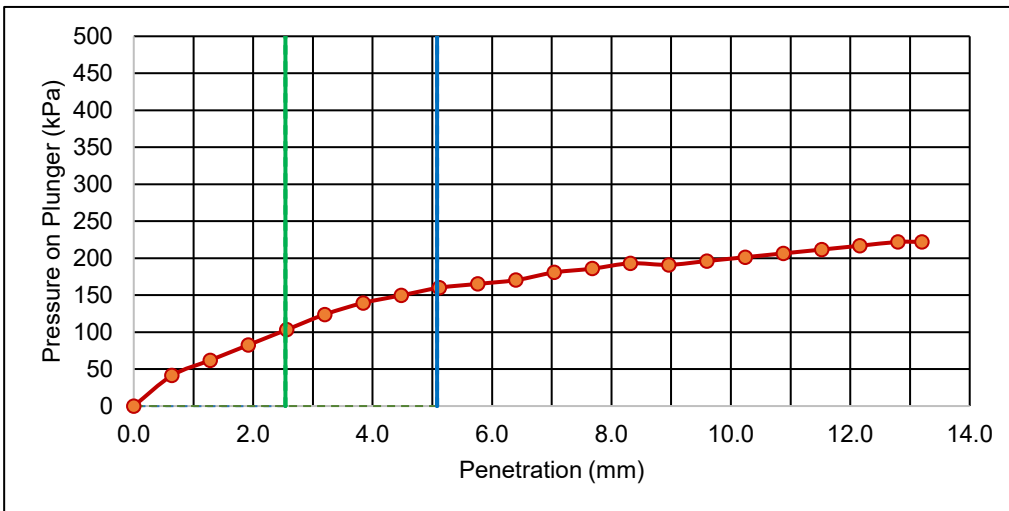
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE	Subgrade	SUPPLIER	Existing Material
MAX. NOMINAL SIZE	< 4.75 mm	SOURCE	Bore Hole
MATERIAL TYPE	Fat Clay (CH)	SAMPLE LOCATION	BH-224, 0.8 m
SPECIFICATION ID	Not Applicable	STANTEC SAMPLE NO.	2785

IMMERSION PERIOD	96 ± 2 hr	TARGET MAX. DRY DENSITY	1430 kg/m ³
CONDITION OF SAMPLE	Soaked	TARGET OPTIMUM MOISTURE	25.0 %
SURCHARGE MASS	4.54 kg		
+19 mm OVERSIZE	0 %	AS-COMPACTED DRY DENSITY	1357 kg/m ³
SWELL OF SAMPLE	5.23 %	AS-COMPACTED MOISTURE	25.1 %
POST-TEST MOISTURE	41.0 %	AS-COMPACTED % COMPACTION	95 %



**CBR VALUE AT 2.54 mm
PENETRATION**
1.5


**CBR VALUE AT 5.08 mm
PENETRATION**
1.6

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

As per ASTM D1883 10.2, the sample should be re-run to confirm the higher CBR value at 5.08 mm.

REPORT DATE 2026.Feb.12

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services