

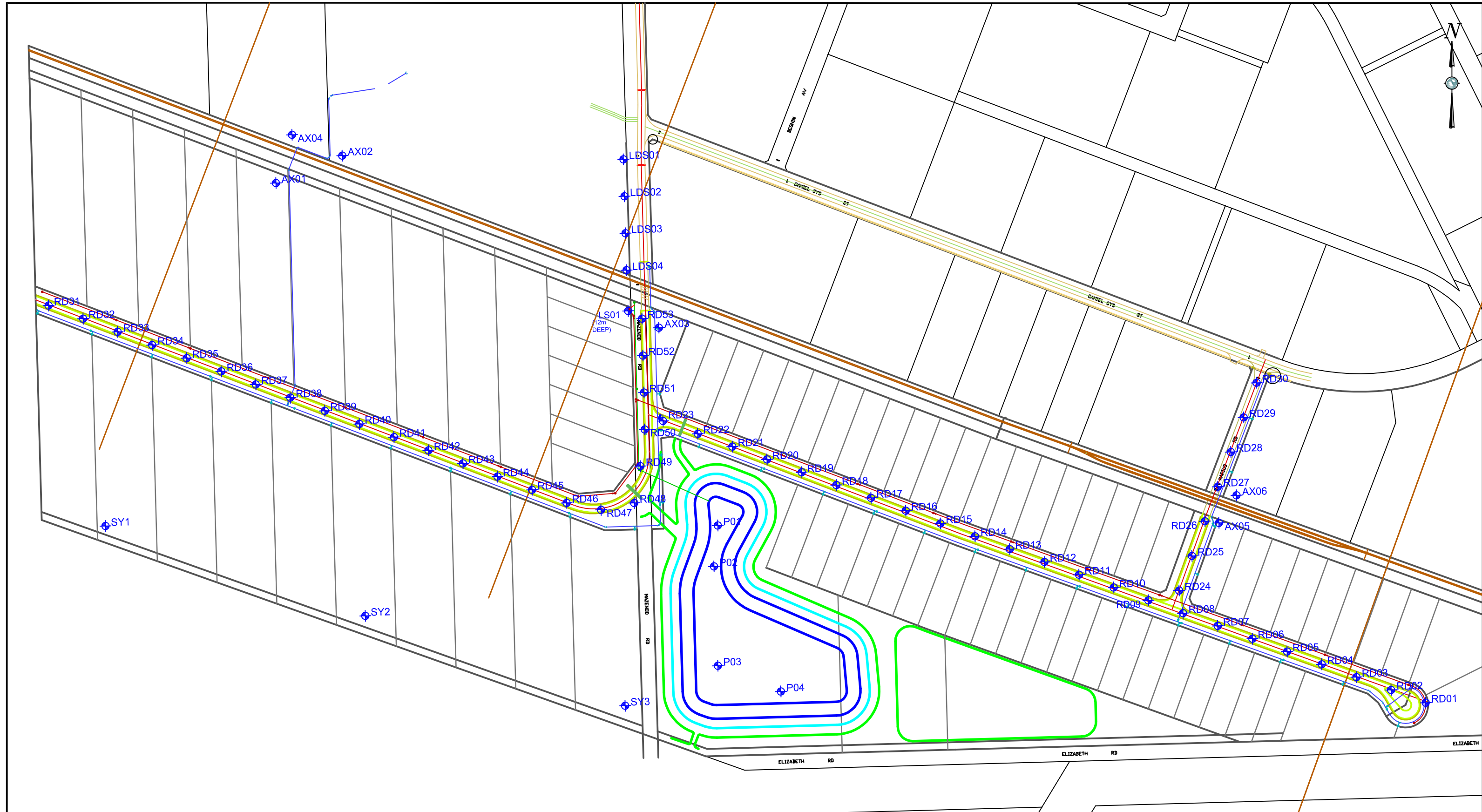
**APPENDIX 'A'**  
**GEOTECHNICAL REPORT**

## APPENDIX 'A' – GEOTECHNICAL REPORT

### TABLE OF CONTENTS

Test Hole Location Plan	2
Test Hole Log for AX05	3
Test Hole Log for P04	4
Test Hole Log for RD01	5
Test Hole Log for RD02	6
Test Hole Log for RD03	7
Test Hole Log for RD04	8
Test Hole Log for RD05	9
Test Hole Log for RD06	10
Test Hole Log for RD07	11
Test Hole Log for RD08	12
Test Hole Log for RD09	13
Test Hole Log for RD10	14
Test Hole Log for RD11	15
Test Hole Log for RD12	16
Test Hole Log for RD13	17
Test Hole Log for RD14	18
Test Hole Log for RD15	19
Test Hole Log for RD16	20
Test Hole Log for RD17	21
Test Hole Log for RD18	22
Test Hole Log for RD19	23
Test Hole Log for RD20	24
Test Hole Log for RD21	25
Test Hole Log for RD22	26
Test Hole Log for RD23	27
Test Hole Log for RD24	28
Test Hole Log for RD25	29
Test Hole Log for RD26	30
Test Hole Log for RD27	31
Test Hole Log for RD28	32
Test Hole Log for RD29	33
Test Hole Log for RD30	34

The geotechnical report is provided to aid the Contractor's evaluation of the existing soil conditions of the site. The information presented is considered accurate at the locations shown on the Drawings and at the time of drilling. However, variations in soil conditions may exist between test holes and fluctuations in groundwater levels can be expected seasonally and may occur as a result of construction activities. The nature and extent of variations may not become evident until construction commences.



NOTE: THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE AMEC EARTH & ENVIRONMENTAL REPORT No. WX17188 DATED JULY 2013.



CLIENT:  
**TERRACON DEVELOPMENTS**

AMEC Environment & Infrastructure  
 440 DOVERCOURT DRIVE  
 WINNIPEG, MANITOBA R3Y 1N4  
 PHONE: 204.488.2997 FAX:204.489.8261



DWN BY: MD  
 CHK'D BY: RB  
 DATUM: NAD83  
 PROJECTION: UTM Zone 14 U  
 SCALE: AS SHOWN

**GEOTECHNICAL INVESTIGATION  
 PROPOSED PRAIRIE INDUSTRIAL PARK  
 NEAR MAZENOD AND CAMEL SYS  
 WINNIPEG, MANITOBA**

**TEST HOLE LOCATION PLAN**

DATE: SEPTEMBER 2013  
 PROJECT NO: WX17188  
 REV. NO.: A  
 FIGURE No. FIGURE 1

PROJECT: Prairie Industrial Park		DRILLED BY: Maple Leaf Drilling Ltd.		BORE HOLE NO: <b>AX05</b>	
CLIENT: Terracon Developments		DRILL TYPE: Track Mounted DR150		PROJECT NO: WX17188	
LOCATION: Winnipeg, Manitoba		DRILL METHOD: 125mm Solid Stem Augers		ELEVATION:	
SAMPLE TYPE		<input type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample
BACKFILL TYPE		<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout
		<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand

Depth (m)	UNCONFINED COMPRESSION (kPa)		SOIL SYMBOL	MUSCS	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	SPT (N)	COMMENTS	Depth (m)
	▲	■								
0				OR OH	SURFACE ORGANICS (Moss) - ~25mm thick	Core	1			0
0.1				ORGANIC CLAY - silty, trace rootlets and organics, moist, dark grey		Core	2			0.1
0.5				CLAY - silty, trace rootlets to 0.3m, high plastic, moist, stiff, brownish grey, occasional silt inclusions		Core	3			0.5
1.5				- greyish brown below 0.8m		Core	4			1.5
2.5				- firm, brown, occasional sulphate inclusions below 2.3m		Core	5			2.5
3.1				- trace sand, occasional to frequent sulphate inclusions at 3.1m		Core	6			3.1
4.6				- firm to stiff, greyish brown below 4.6m	CH	Core	7			4.6
6.1				- firm, occasional to frequent silt inclusions ~3mm dia. below 6.1m		Core	8			6.1
7.6				- soft to firm, dark greyish brown below 7.6m		Core	9			7.6
8.5				- grey to dark grey below 8.5m		Core				8.5
9.1				TEST HOLE TERMINATED AT 9.1m BELOW EXISTING GRADE		Core				9.1
			NOTES: Very slight squeezing was observed below 8.5m during drilling. No seepage was encountered during drilling. Test hole remained open to 8.5m and was dry upon completion of drilling. Test hole was backfilled with auger cuttings and bentonite.							

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Winnipeg, Manitoba

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REVIEWED BY: RB

Figure No. 3

COMPLETION DEPTH: 9.1 m

COMPLETION DATE: July 12, 2013

Page 1 of 1

PROJECT: Prairie Industrial Park		DRILLED BY: Maple Leaf Drilling Ltd.		BORE HOLE NO: P04	
CLIENT: Terracon Developments		DRILL TYPE: Track Mounted DR150		PROJECT NO: WX17188	
LOCATION: Winnipeg, Manitoba		DRILL METHOD: 125mm Solid Stem Augers		ELEVATION:	
SAMPLE TYPE		<input type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample
BACKFILL TYPE		<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout
		<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand

Depth (m)	UNCONFINED COMPRESSION (kPa)		SOIL SYMBOL	MUSCS	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	SPT (N)	COMMENTS	Depth (m)
	▲	■								
0			OR		SURFACE ORGANICS (Moss) - ~25mm thick		1			0
0.5			CH		CLAY - silty, trace rootlets, trace organics, medium plastic, moist, very stiff, dark brownish grey		2			0.5
1.0			ML		- greyish brown, occasional sulfate inclusions below 0.8m		3			1.0
1.5					SILT - trace clay, low plastic, damp, friable, crumbly, light brown to tan, occasional sulfate and occasional oxide inclusions		4			1.5
2.0					CLAY - silty, high plastic, moist, very stiff, greyish brown, occasional sulfate and occasional silt inclusions		5			2.0
2.5					- frequent silt layers (~25mm thick), firm to stiff, brown between 1.5m and 1.8m		6			2.5
3.0					- stiff, brown, frequent silty and frequent sulfate inclusions below 2.3m		7			3.0
3.5					- firm, occasional silt and occasional sulfate, and occasional oxidation inclusions below 3.0m		8			3.5
4.0					- no sulfate inclusions below 4.6m		9			4.0
4.5			CH				10			4.5
5.0							11			5.0
6.0										6.0
7.0										7.0
8.0										8.0
9.0										9.0
10.0										10.0
11.0										11.0

TEST HOLE TERMINATED AT 9.1m BELOW EXISTING GRADE	
NOTES: No sloughing or seepage was encountered during drilling. Test hole remained open to 9.1m and was dry upon completion of drilling. Test hole was backfilled with auger cuttings and bentonite.	

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Figure No. 12

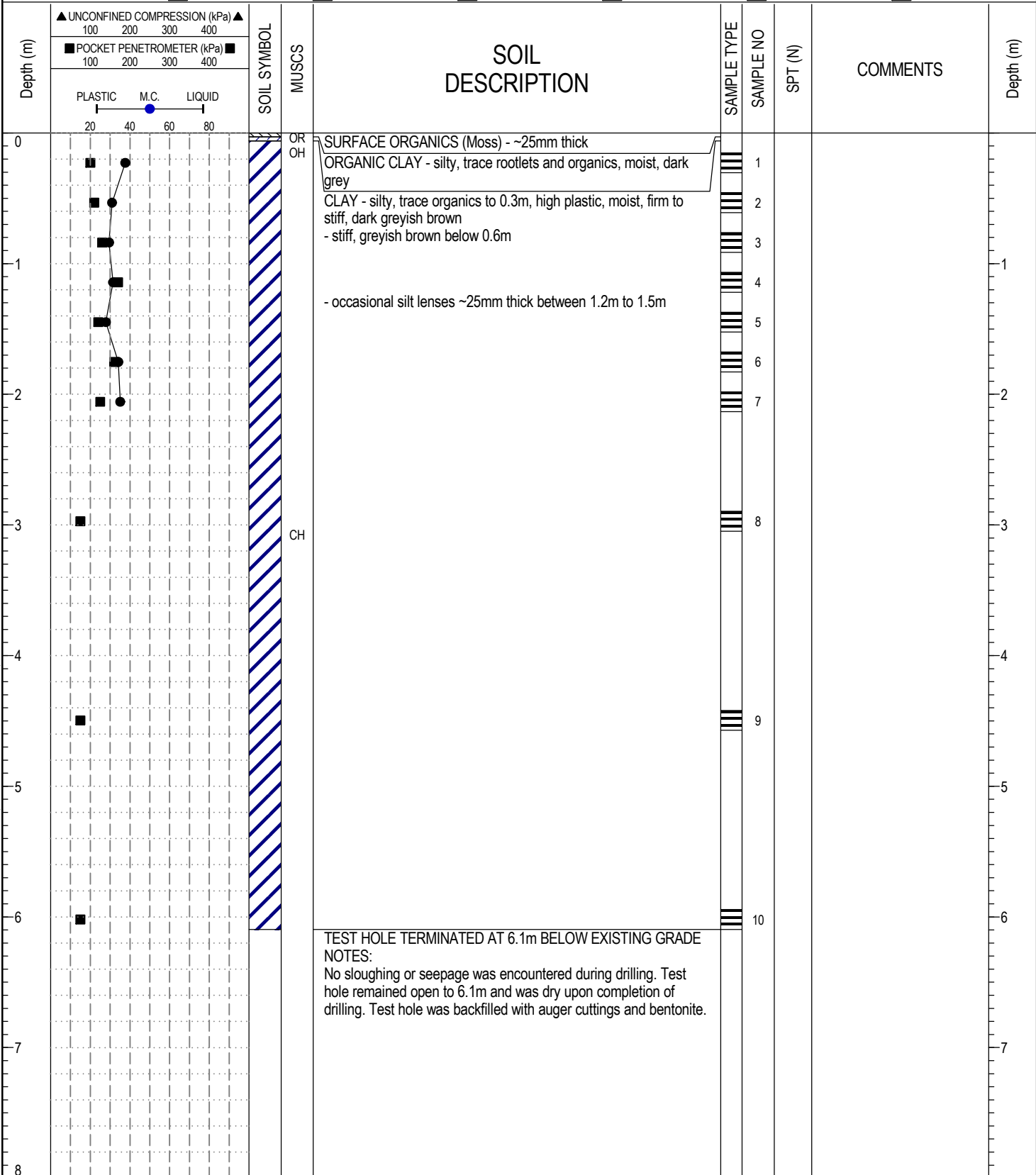
COMPLETION DEPTH: 9.1 m

COMPLETION DATE: August 21, 0201

Page 1 of 1

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: RD01
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

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BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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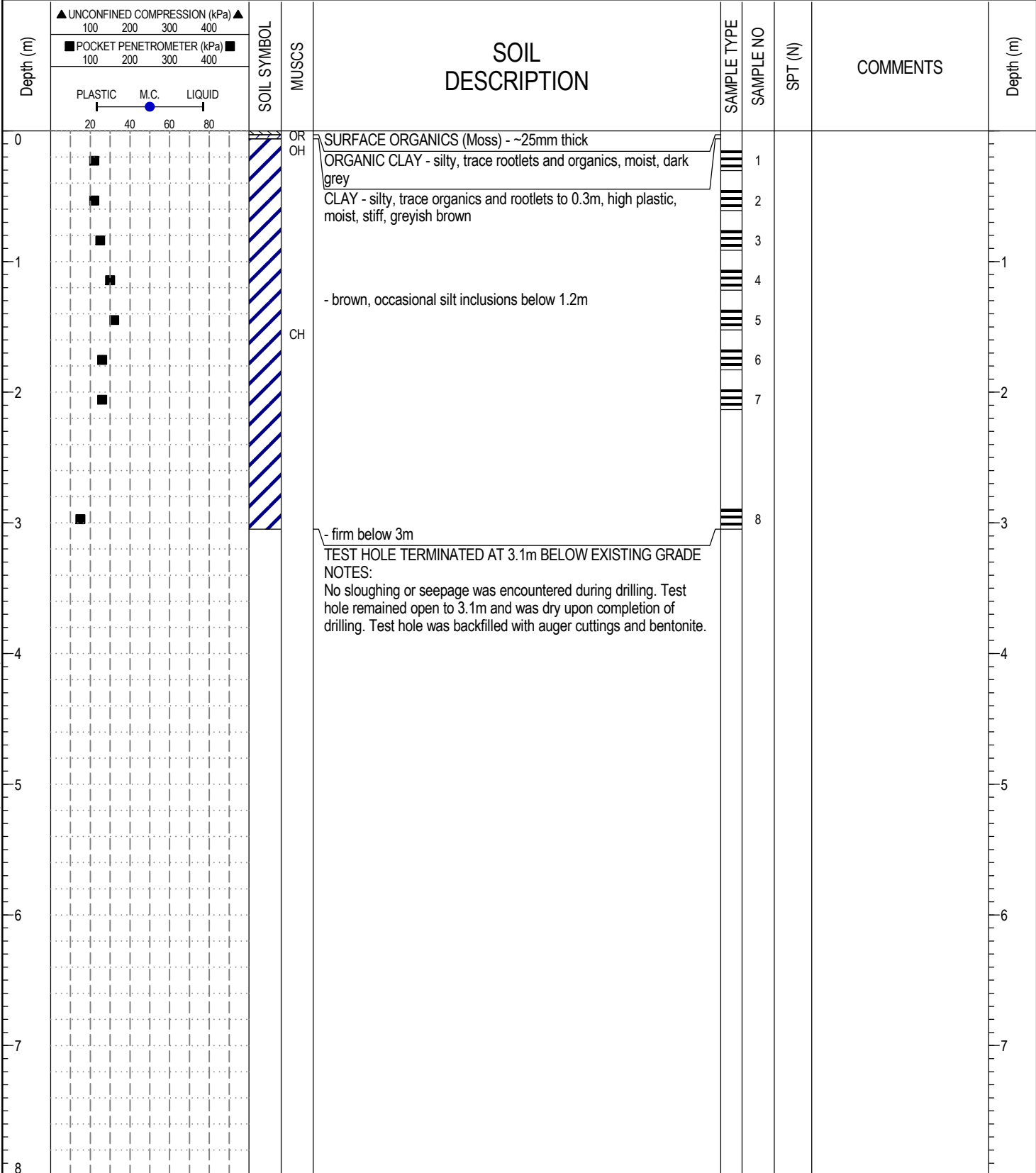
AMEC Environment & Infrastructure  
 Winnipeg, Manitoba

LOGGED BY: AL  
 REVIEWED BY: RB  
 Figure No. 13

COMPLETION DEPTH: 6.1 m  
 COMPLETION DATE: July 11, 2013

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: RD02
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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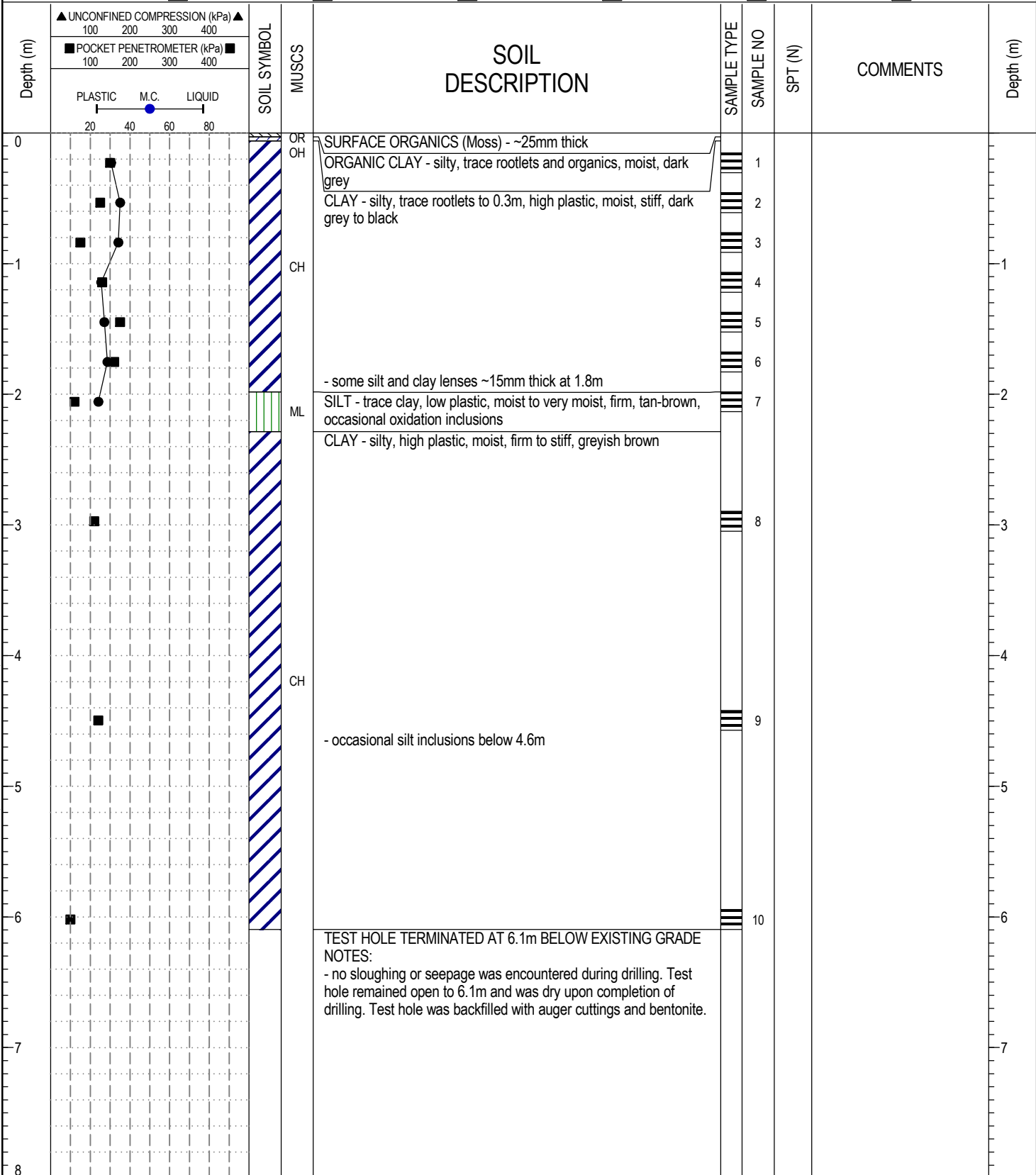
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 Winnipeg, Manitoba

LOGGED BY: AL  
 REVIEWED BY: RB  
 Figure No. 14

COMPLETION DEPTH: 3.1 m  
 COMPLETION DATE: July 11, 2013  
 Page 1 of 1

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: RD03
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

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BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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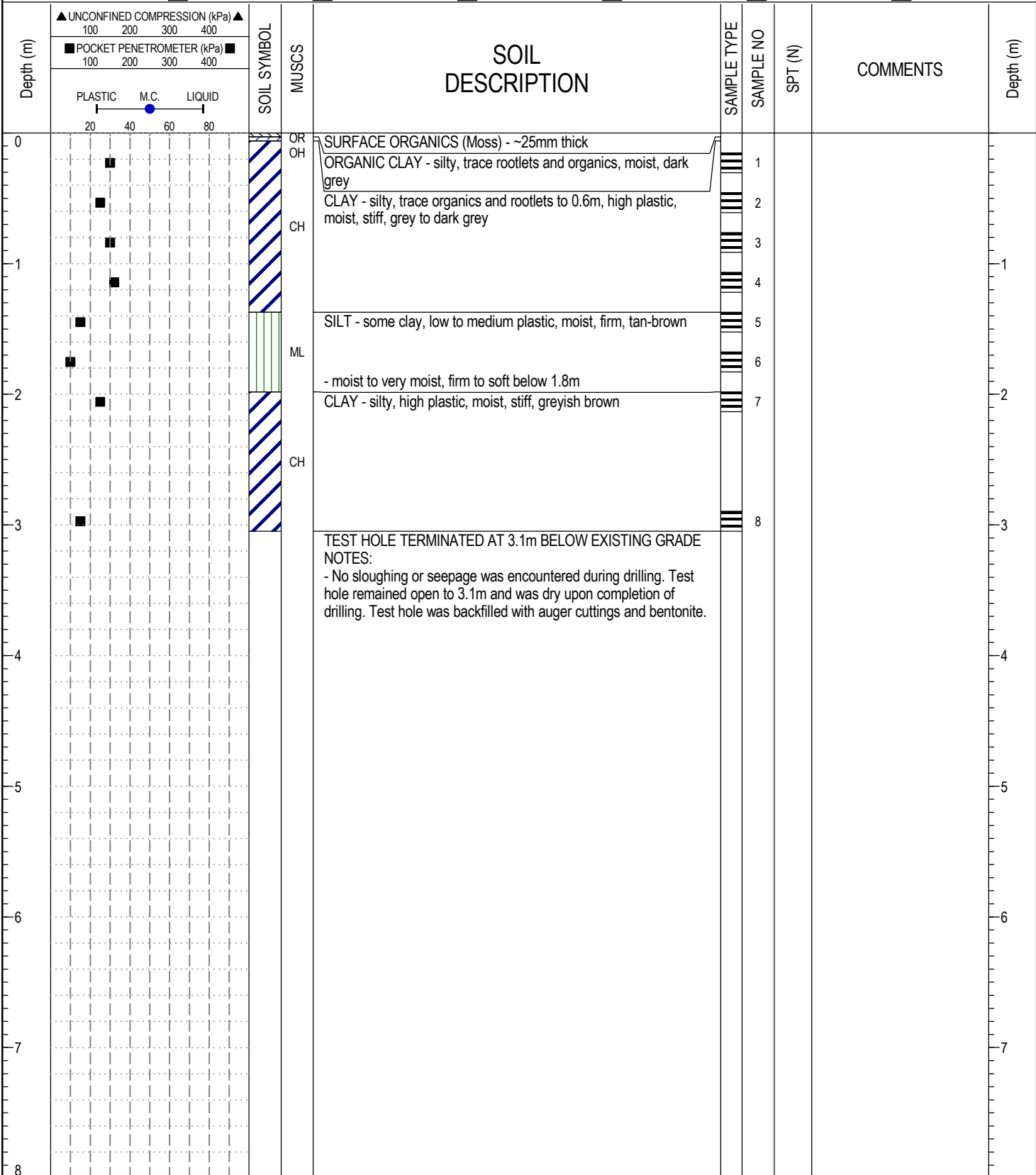
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Winnipeg, Manitoba

LOGGED BY: AL	COMPLETION DEPTH: 6.1 m
REVIEWED BY: RB	COMPLETION DATE: July 11, 2013
Figure No. 15	Page 1 of 1



PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: RD04
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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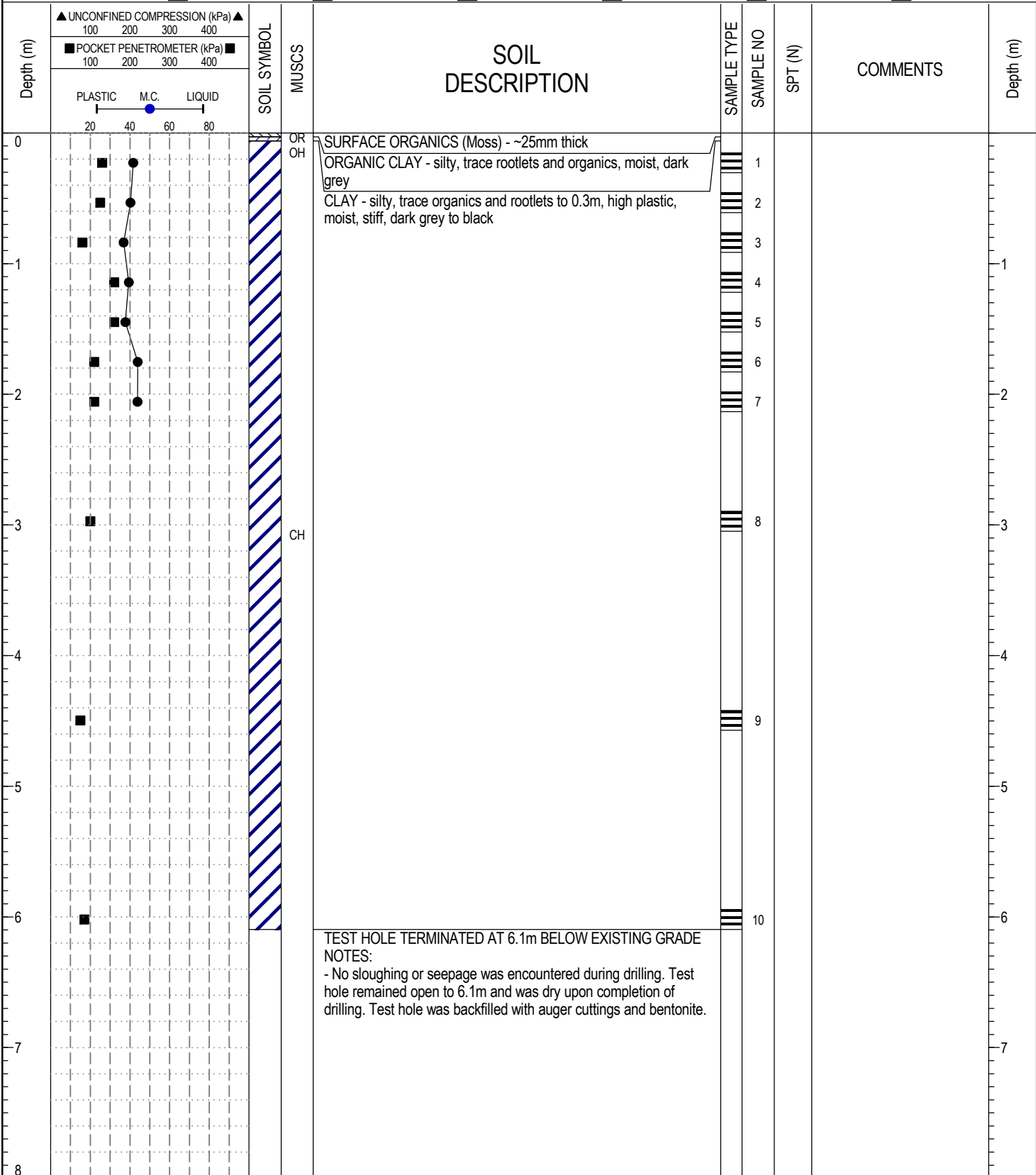
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 REVIEWED BY: RB  
 Figure No. 16

COMPLETION DEPTH: 3.1 m  
 COMPLETION DATE: July 11, 2013

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: RD05
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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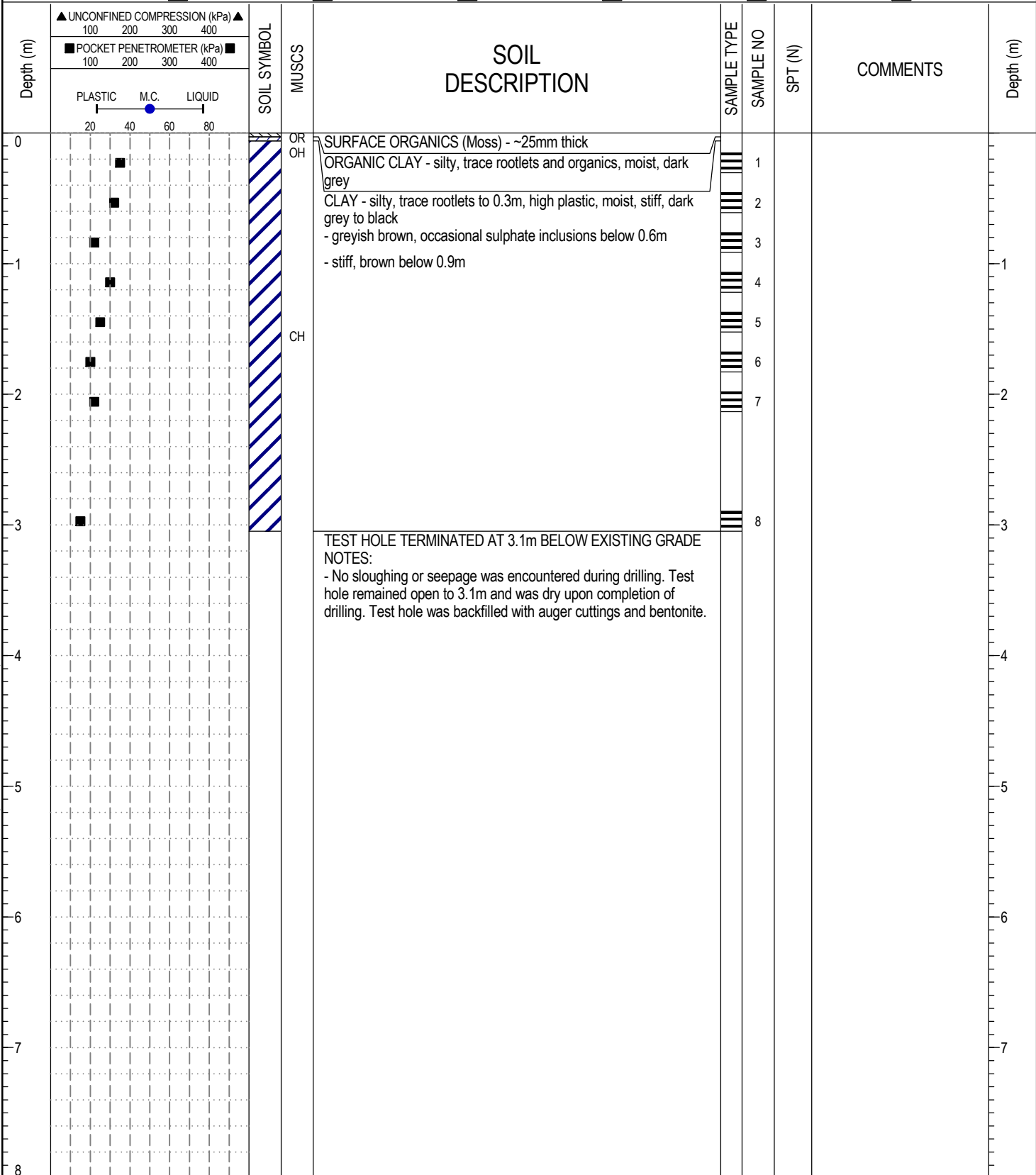


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LOGGED BY: AL	COMPLETION DEPTH: 6.1 m
REVIEWED BY: RB	COMPLETION DATE: July 11, 2013
Figure No. 17	Page 1 of 1

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: <b>RD06</b>
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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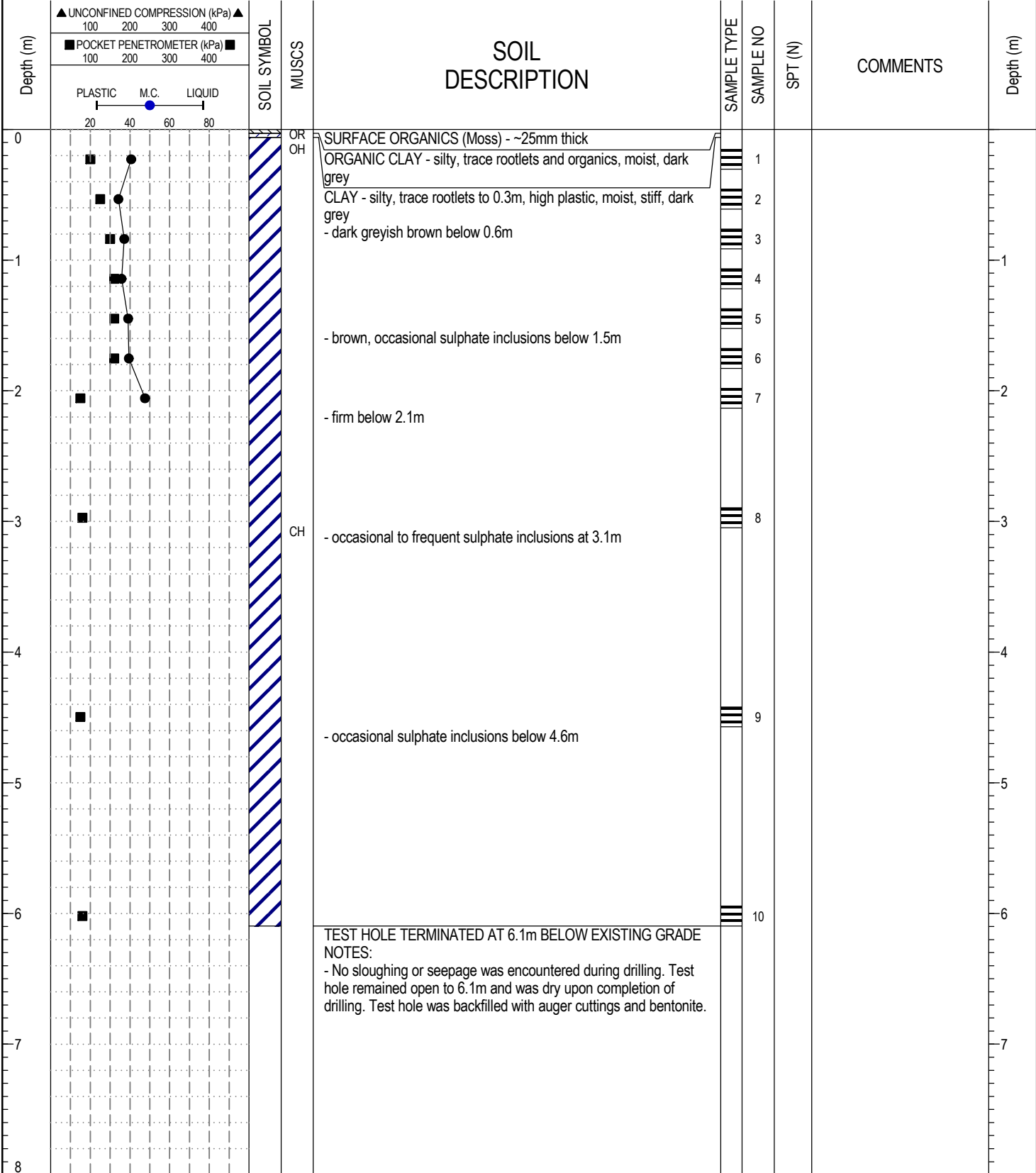
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LOGGED BY: AL  
REVIEWED BY: RB  
Figure No. 18

COMPLETION DEPTH: 3.1 m  
COMPLETION DATE: July 11, 2013  
Page 1 of 1

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: RD07
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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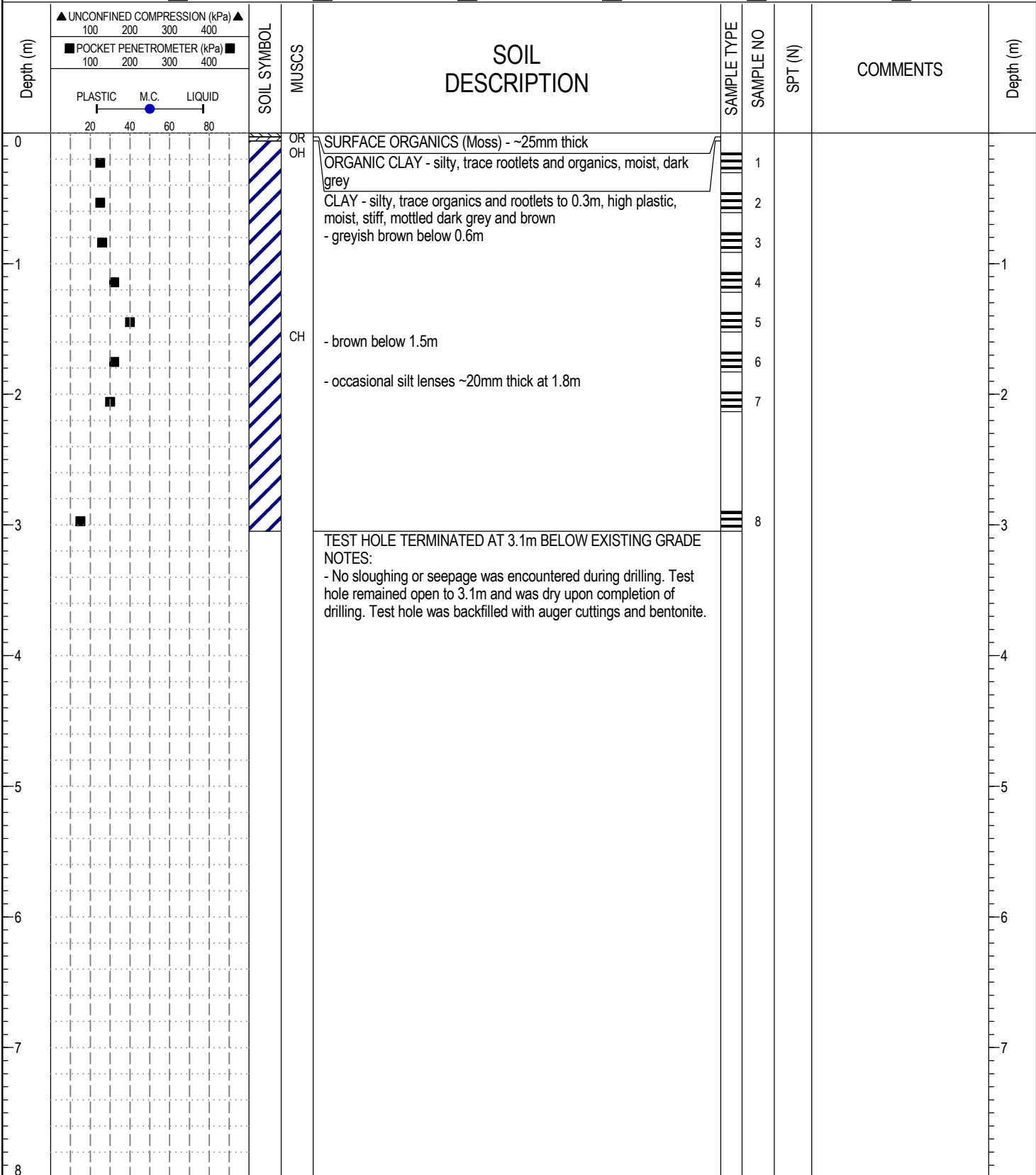
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LOGGED BY: AL
REVIEWED BY: RB
Figure No. 19

COMPLETION DEPTH: 6.1 m
COMPLETION DATE: July 11, 2013
Page 1 of 1

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: <b>RD08</b>
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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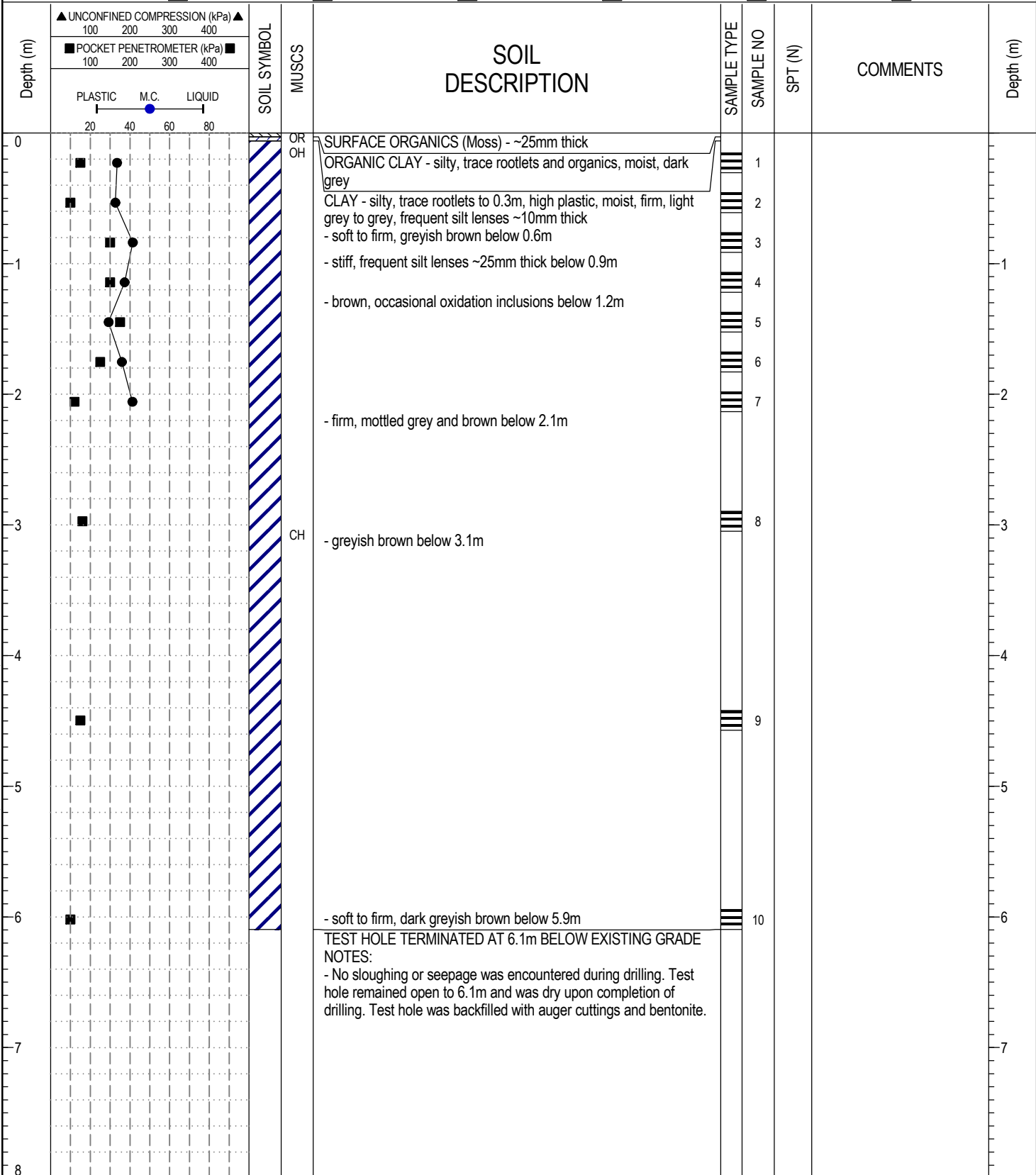
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 Figure No. 20

COMPLETION DEPTH: 3.1 m  
 COMPLETION DATE: July 11, 2013  
 Page 1 of 1

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: RD09
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

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BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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Figure No. 21

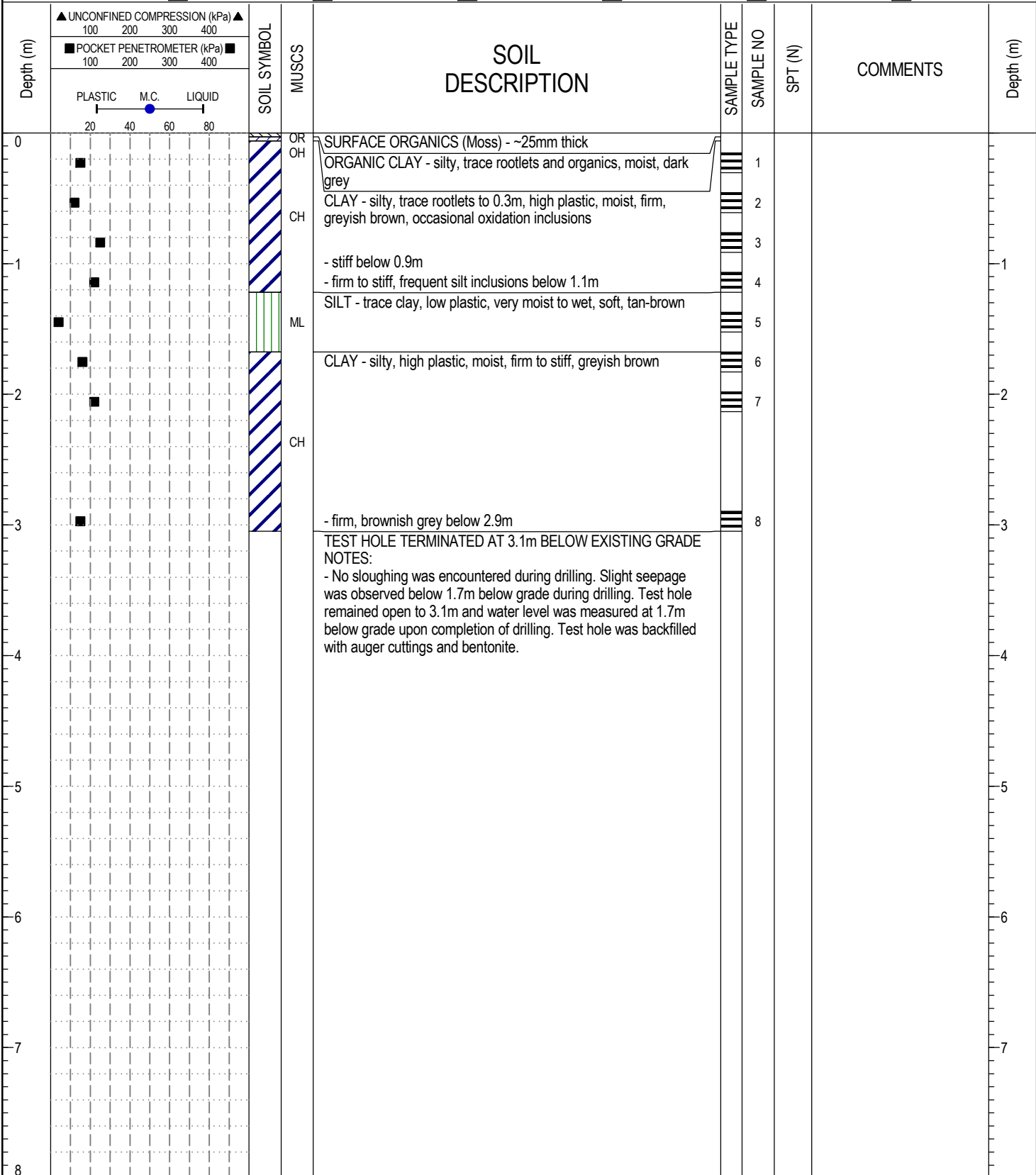
COMPLETION DEPTH: 6.1 m

COMPLETION DATE: July 11, 2013

Page 1 of 1

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: <b>RD10</b>
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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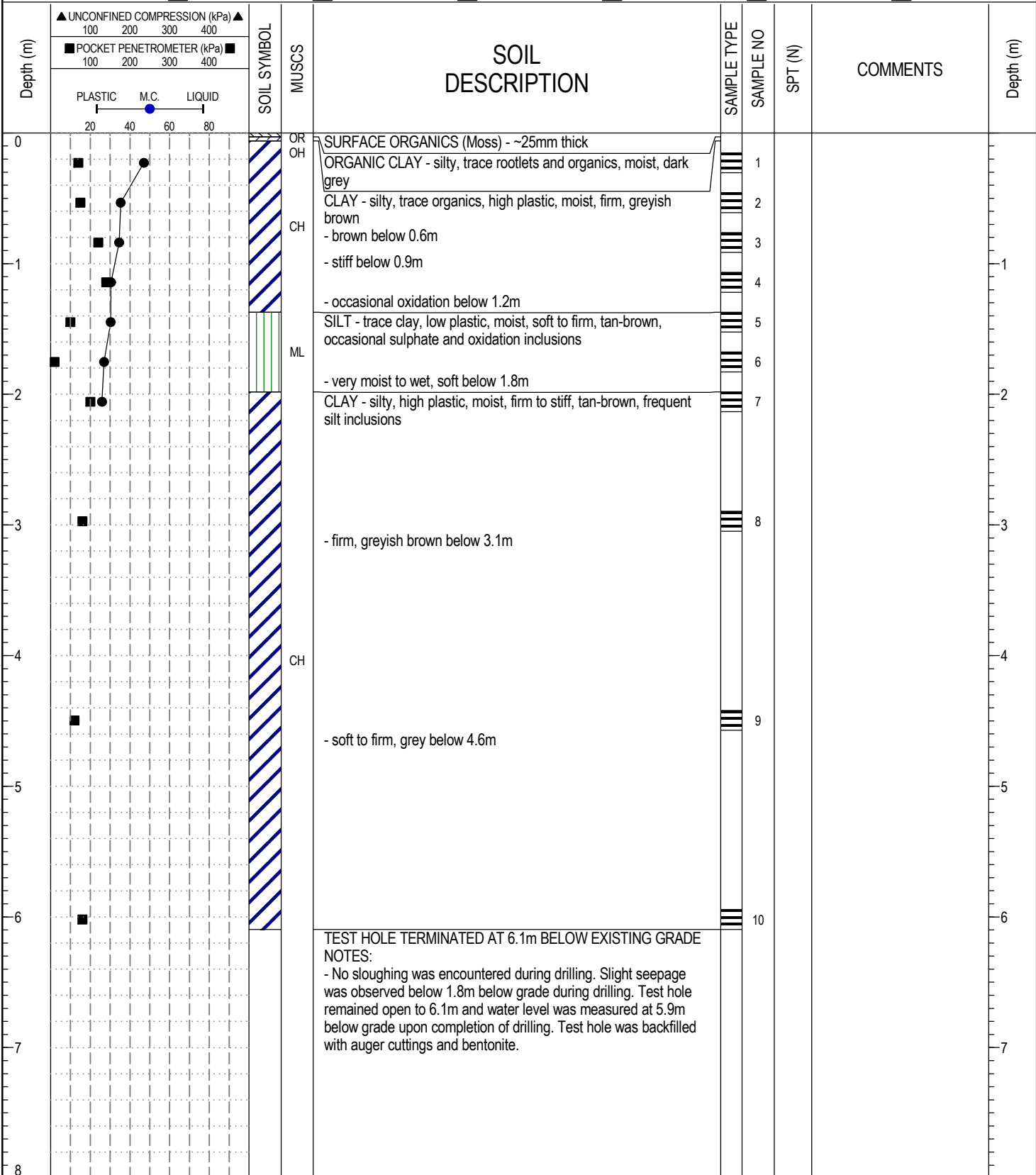


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LOGGED BY: AL	COMPLETION DEPTH: 3.1 m
REVIEWED BY: RB	COMPLETION DATE: July 11, 2013
Figure No. 22	Page 1 of 1

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: RD11
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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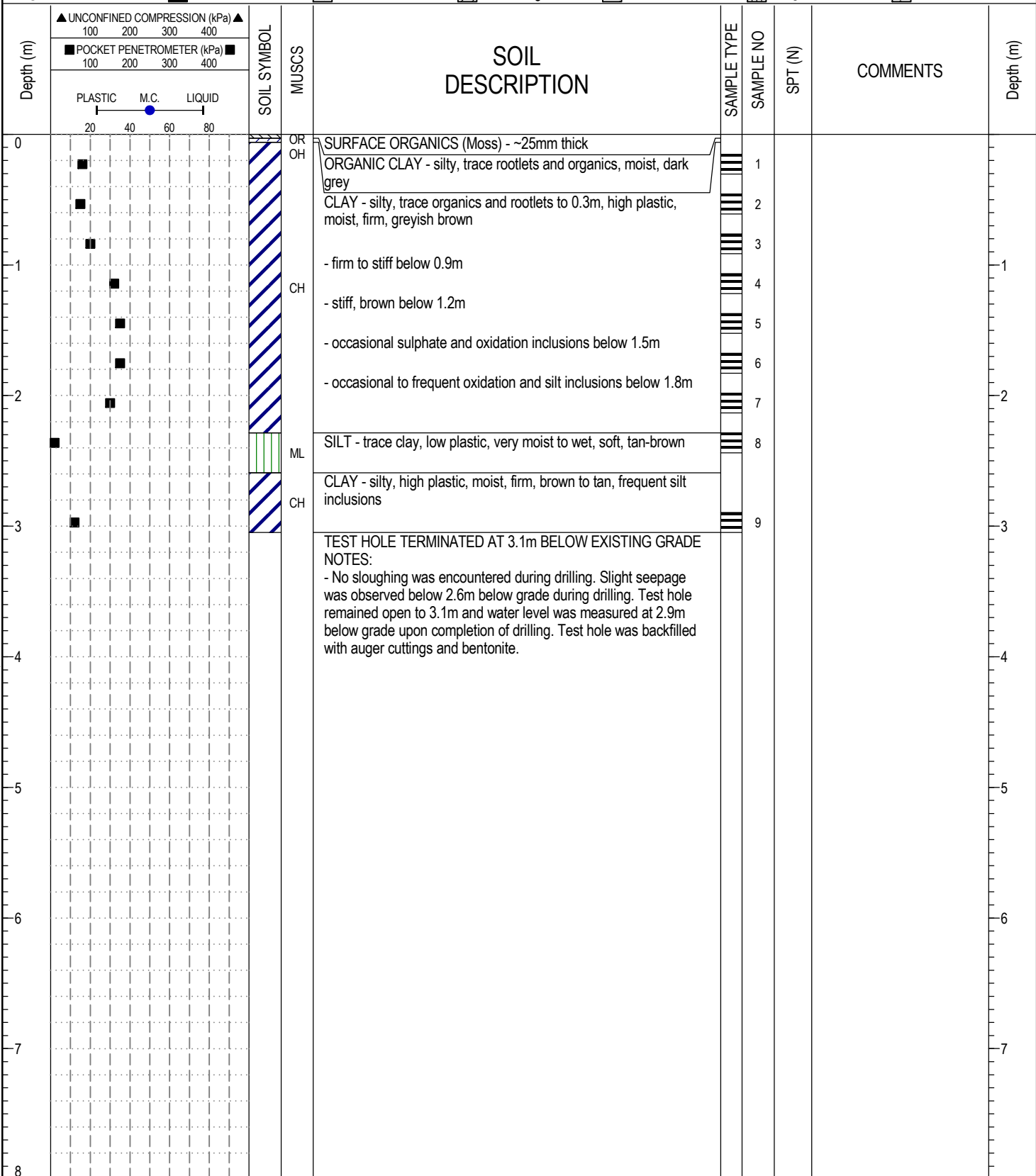
LOGGED BY: AL  
REVIEWED BY: RB  
Figure No. 23

COMPLETION DEPTH: 6.1 m  
COMPLETION DATE: July 11, 2013



PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: RD12
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

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BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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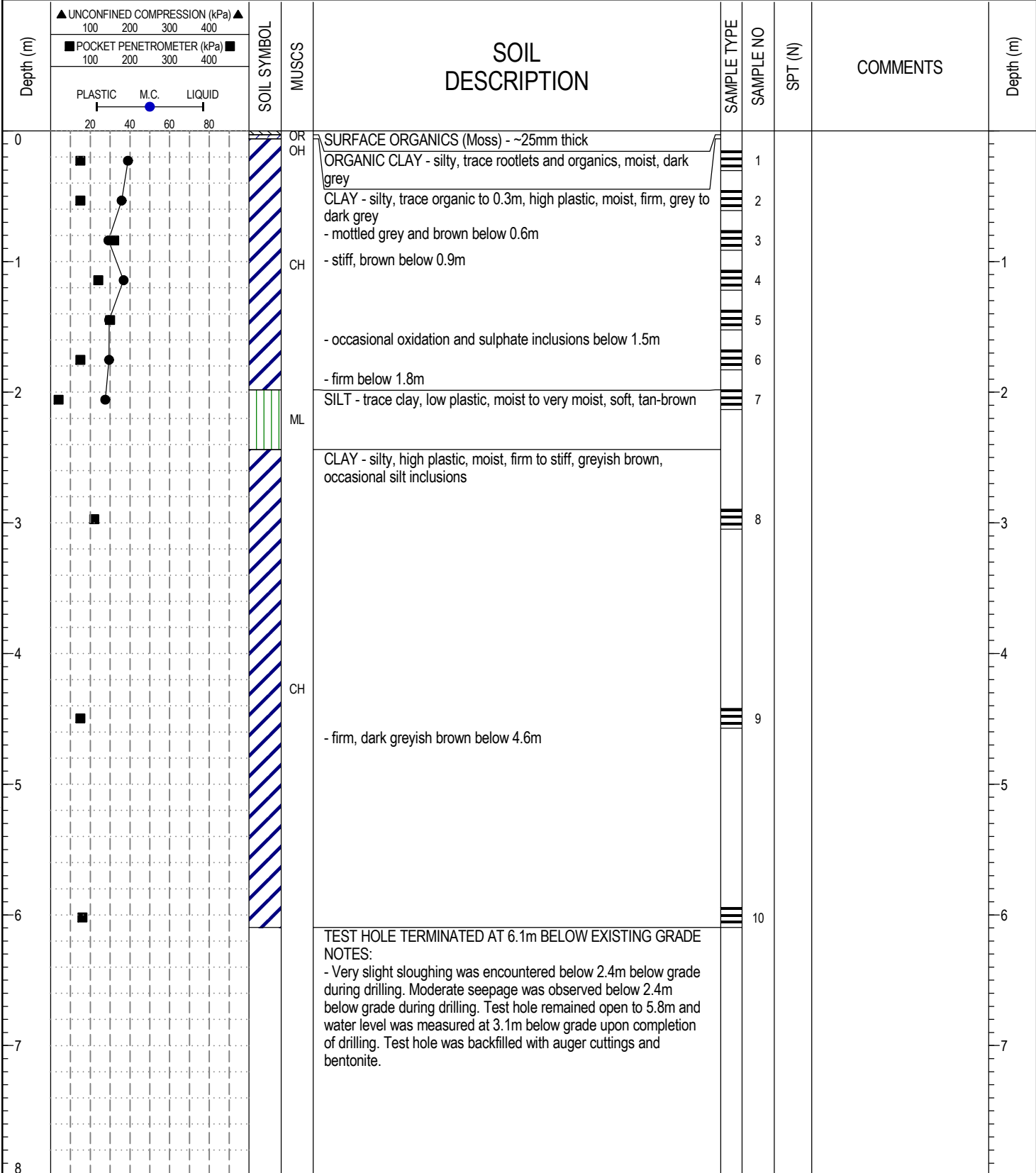
AMEC Environment & Infrastructure  
Winnipeg, Manitoba

LOGGED BY: AL  
REVIEWED BY: RB  
Figure No. 24

COMPLETION DEPTH: 3.1 m  
COMPLETION DATE: July 11, 2013

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: <b>RD13</b>
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED)

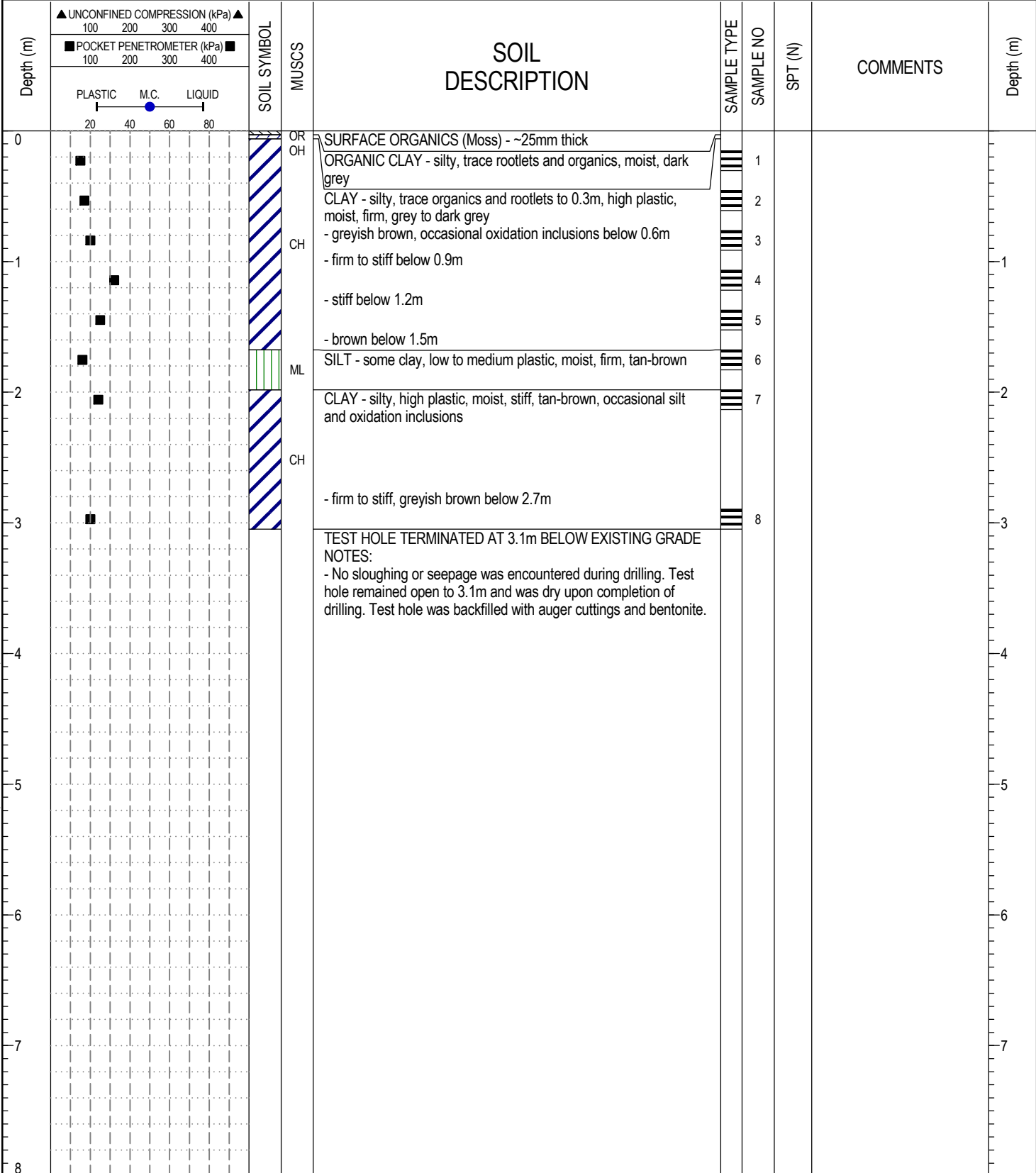


**AMEC Environment & Infrastructure**  
Winnipeg, Manitoba

LOGGED BY: AL	COMPLETION DEPTH: 6.1 m
REVIEWED BY: RB	COMPLETION DATE: July 11, 2013
Figure No. 25	Page 1 of 1

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: <b>RD14</b>
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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Figure No. 26

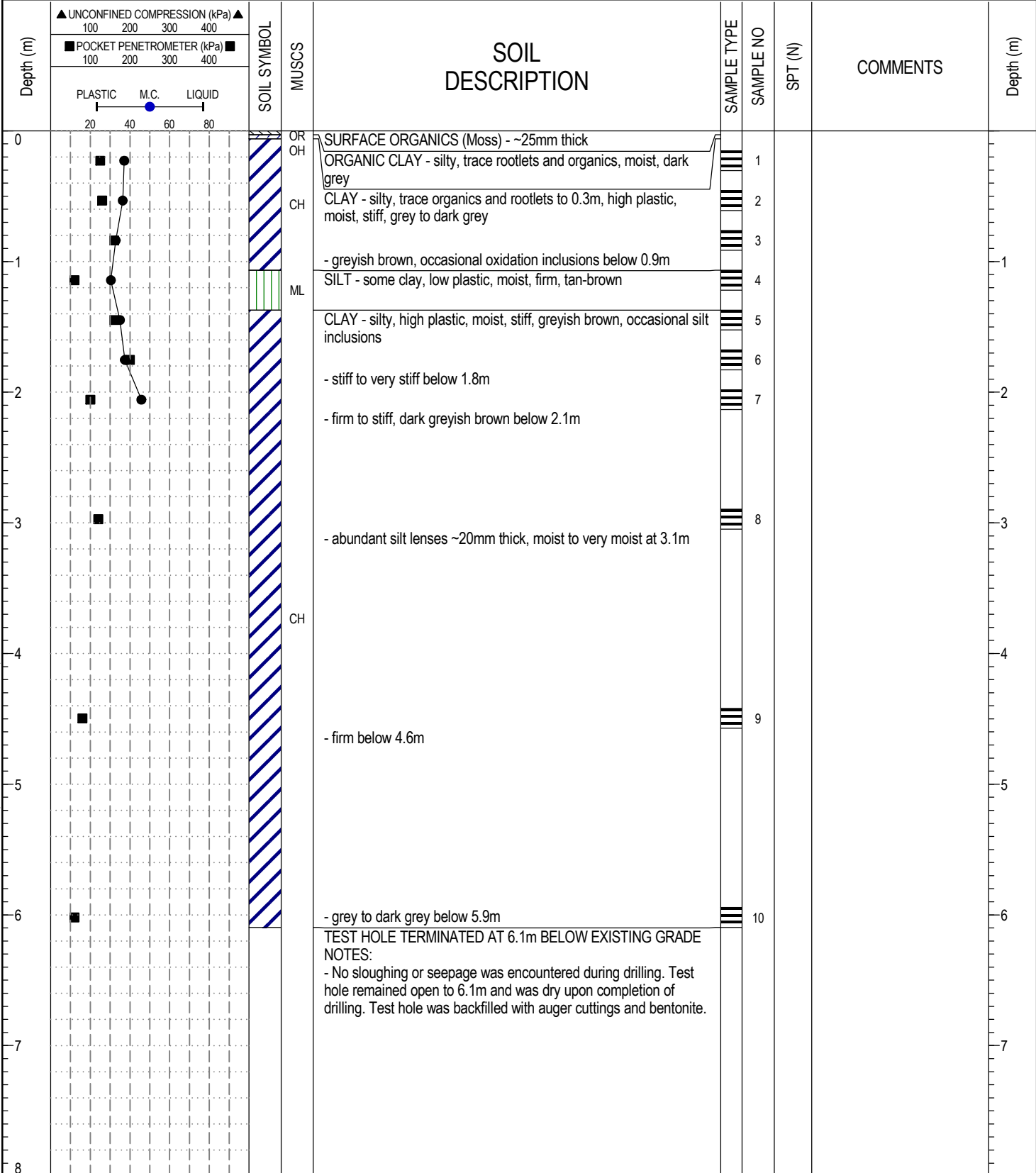
COMPLETION DEPTH: 3.1 m

COMPLETION DATE: July 11, 2013

Page 1 of 1

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: <b>RD15</b>
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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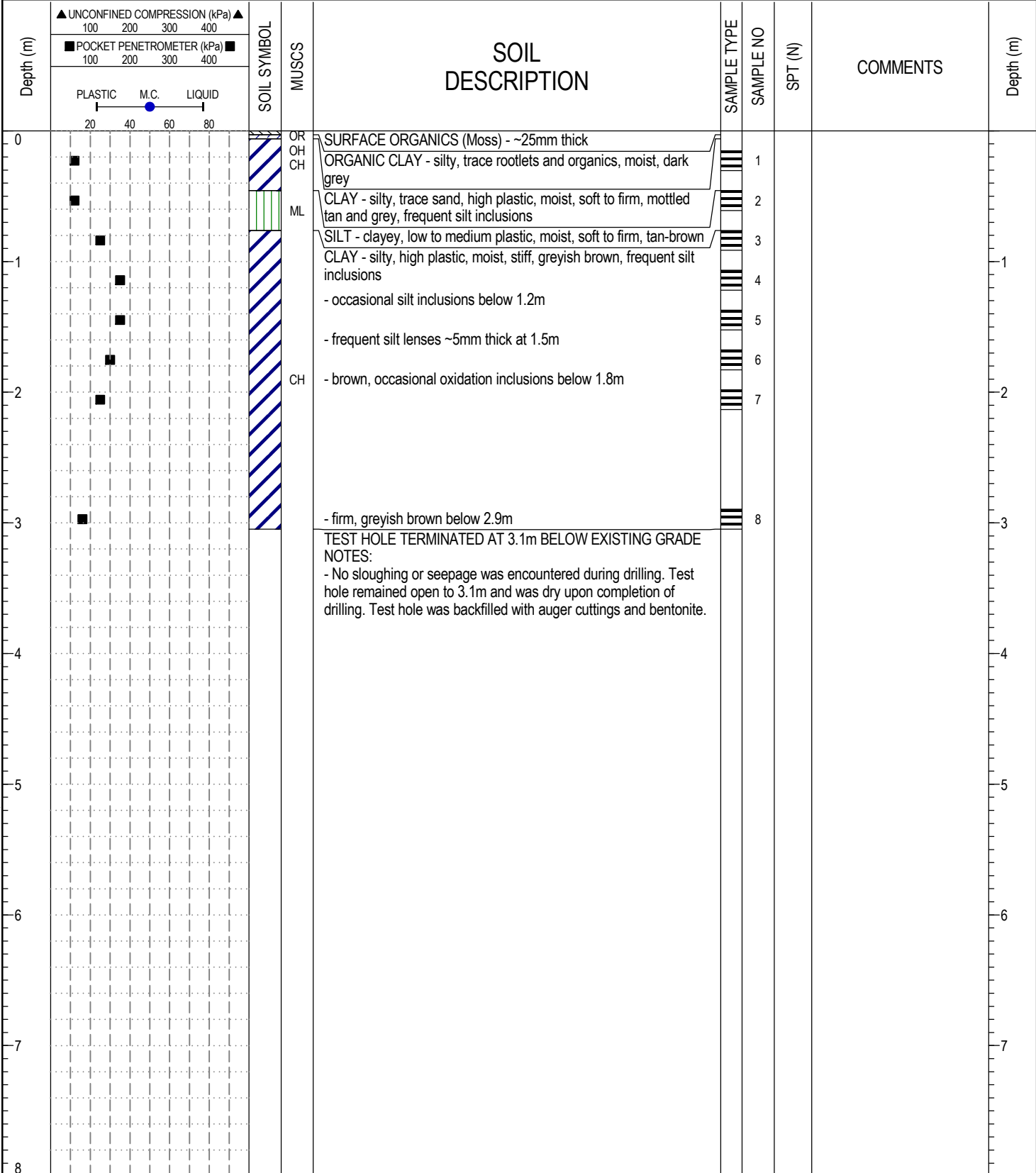
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REVIEWED BY: RB  
Figure No. 27

COMPLETION DEPTH: 6.1 m  
COMPLETION DATE: July 11, 2013

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: <b>RD16</b>
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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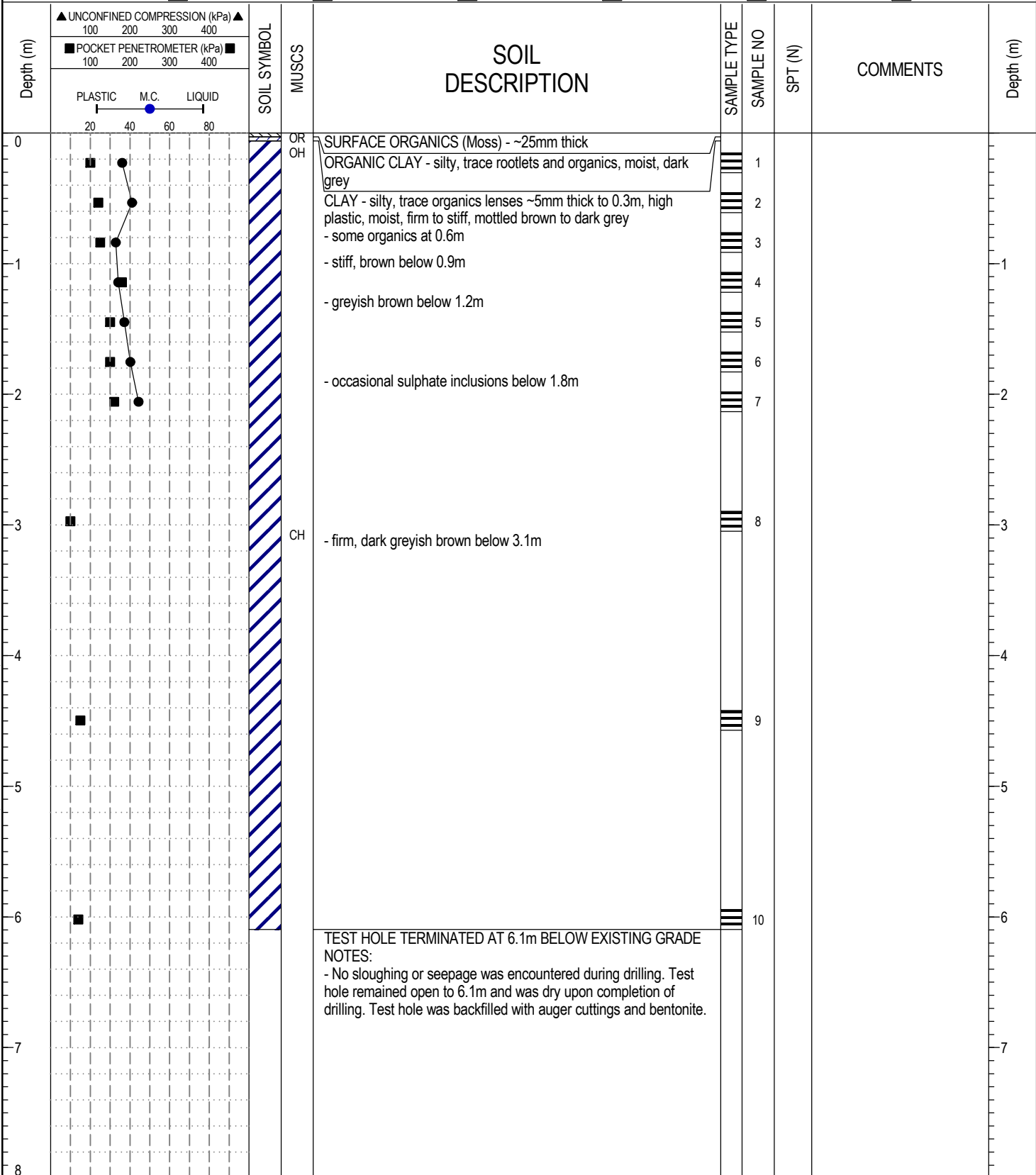
Figure No. 28

COMPLETION DEPTH: 3.1 m

COMPLETION DATE: July 11, 2013

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: RD17
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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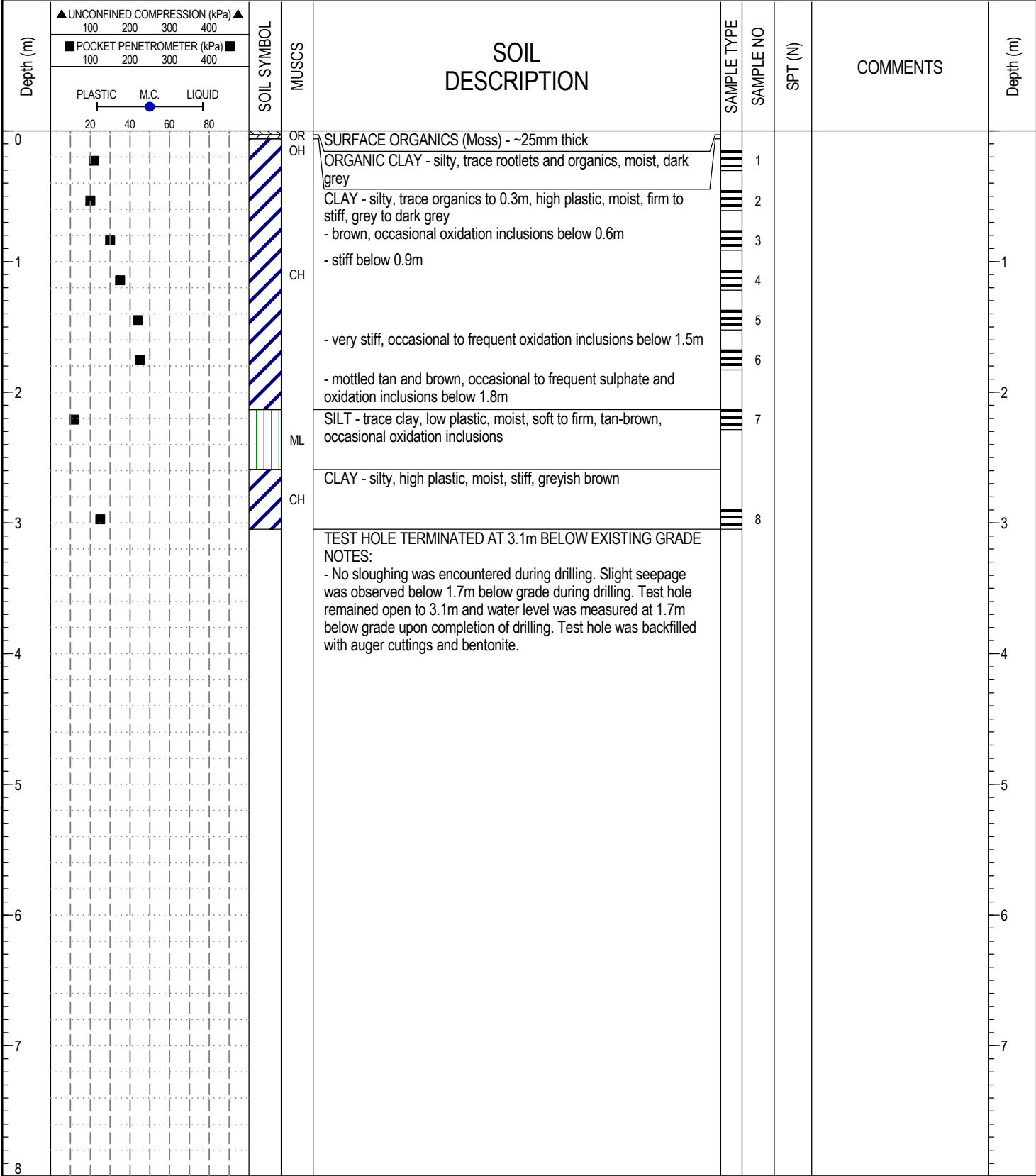
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 REVIEWED BY: RB  
 Figure No. 29

COMPLETION DEPTH: 6.1 m  
 COMPLETION DATE: July 11, 2013

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: <b>RD18</b>
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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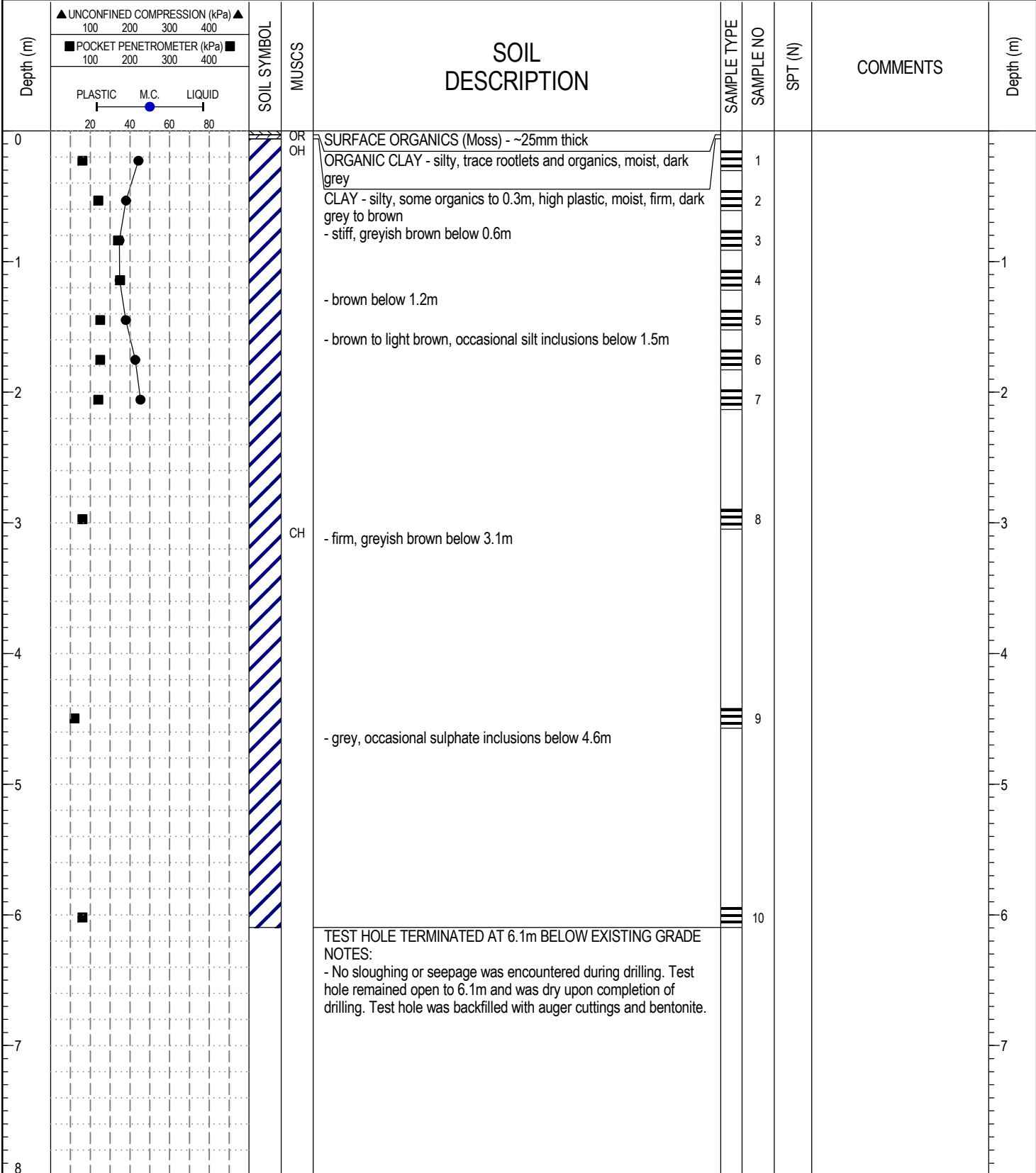


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REVIEWED BY: RB	COMPLETION DATE: July 11, 2013
Figure No. 30	Page 1 of 1

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: <b>RD19</b>
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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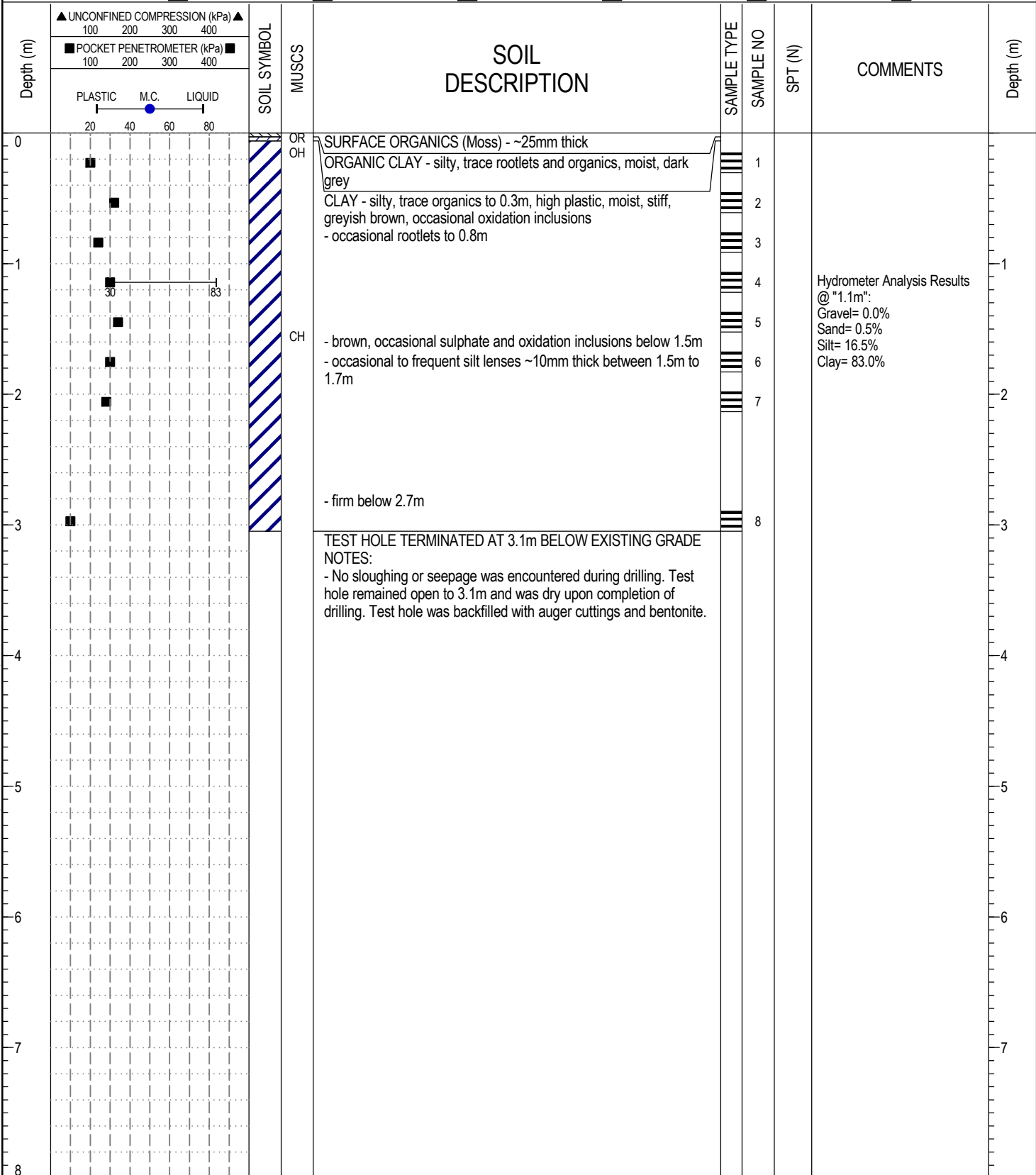
LOGGED BY: AL  
 REVIEWED BY: RB  
 Figure No. 31

COMPLETION DEPTH: 6.1 m  
 COMPLETION DATE: July 11, 2013  
 Page 1 of 1



PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: RD20
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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Figure No. 32

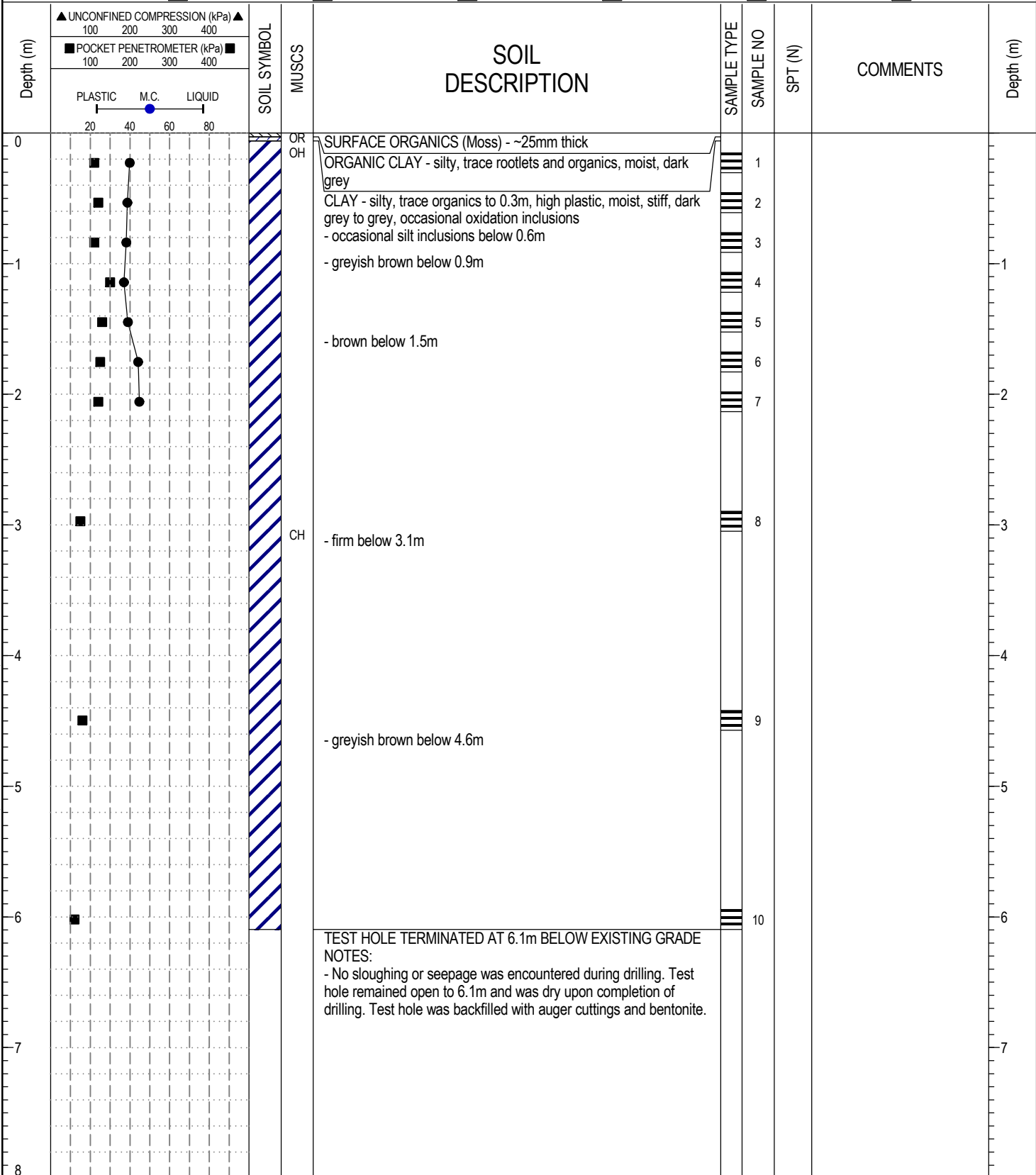
COMPLETION DEPTH: 3.1 m

COMPLETION DATE: July 11, 2013

Page 1 of 1

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: RD21
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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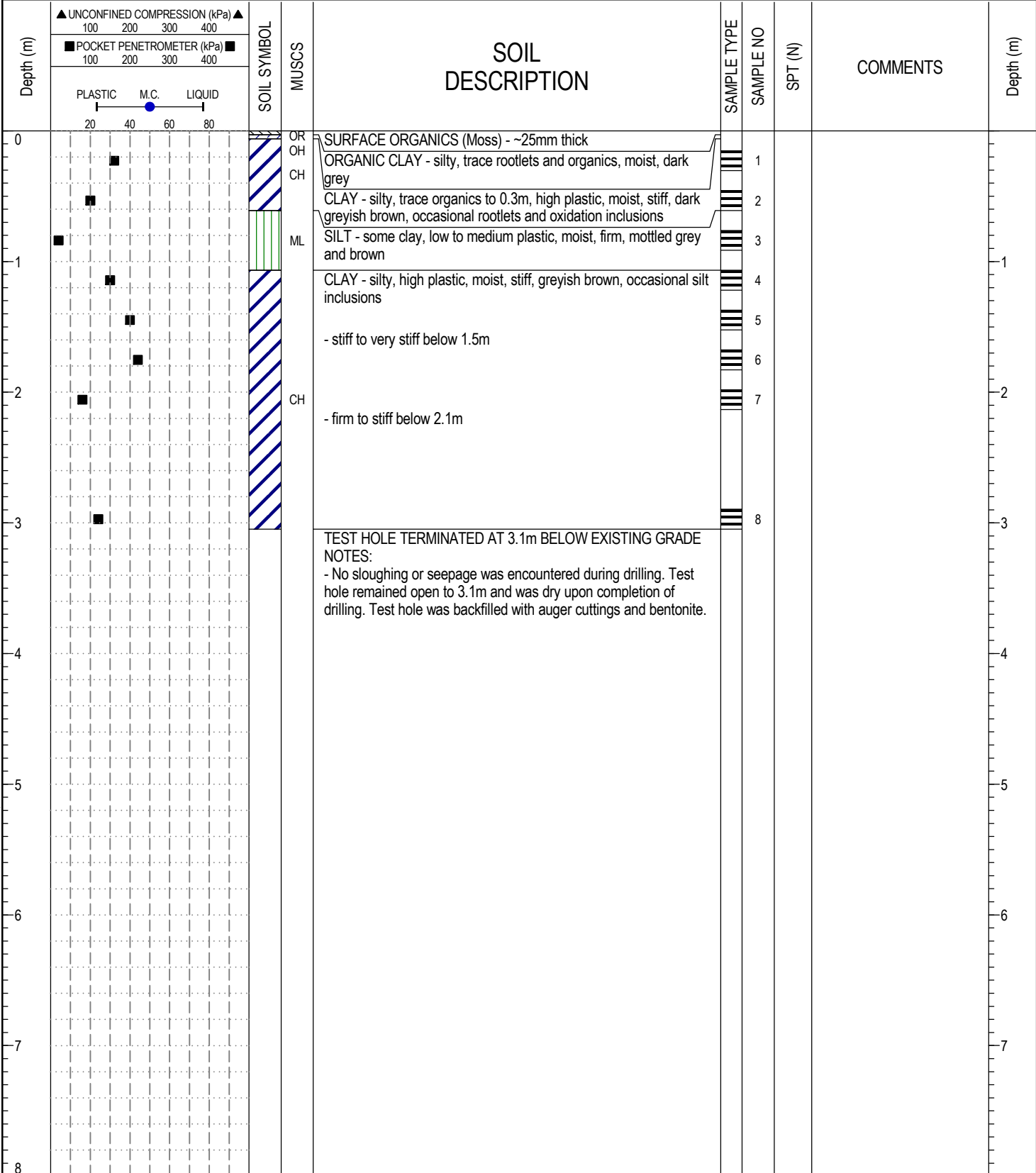
Figure No. 33

COMPLETION DEPTH: 6.1 m

COMPLETION DATE: July 11, 2013

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: RD22
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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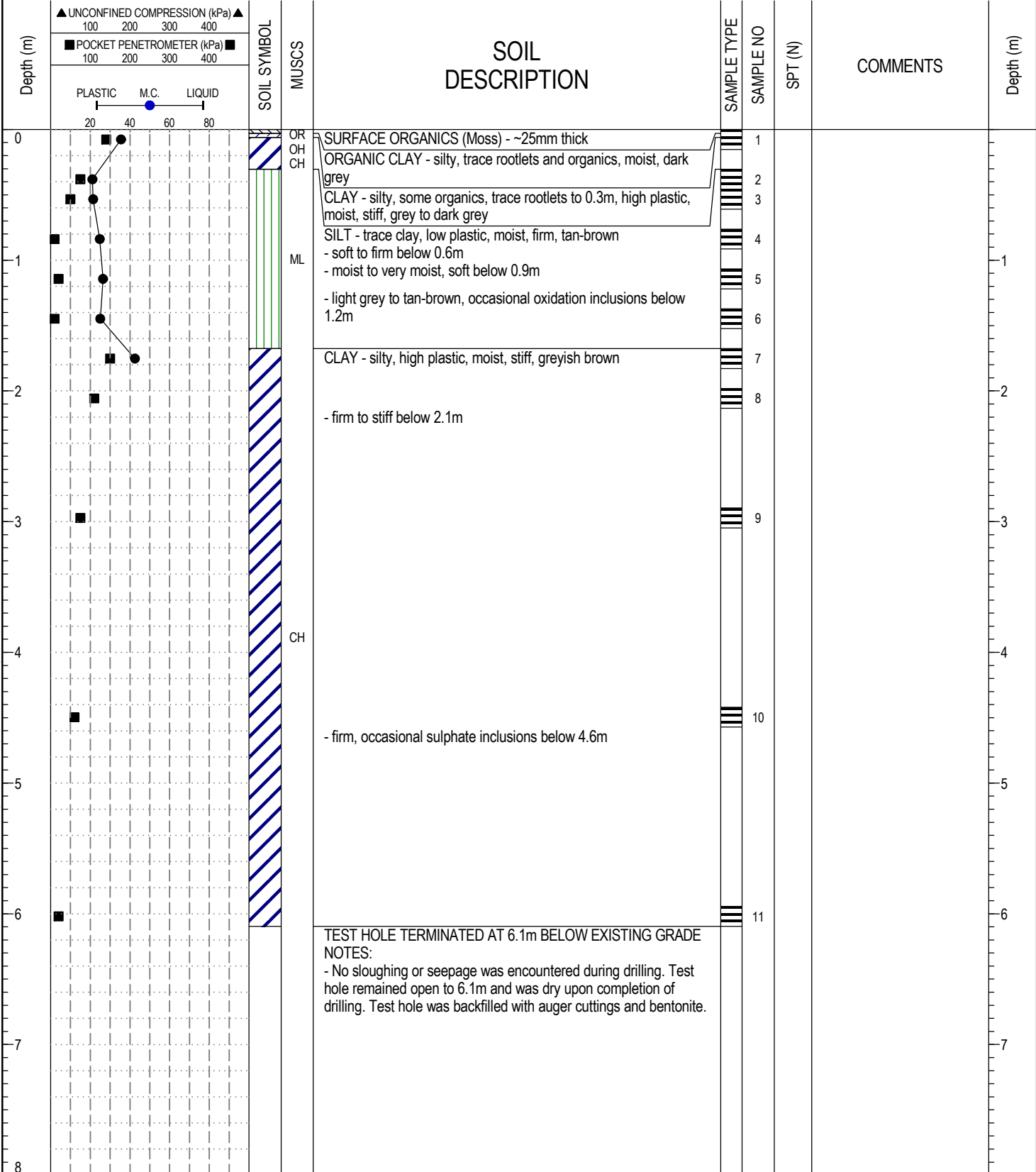
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Figure No. 34

COMPLETION DEPTH: 3.1 m
COMPLETION DATE: July 11, 2013
Page 1 of 1

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: RD23
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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Figure No. 35

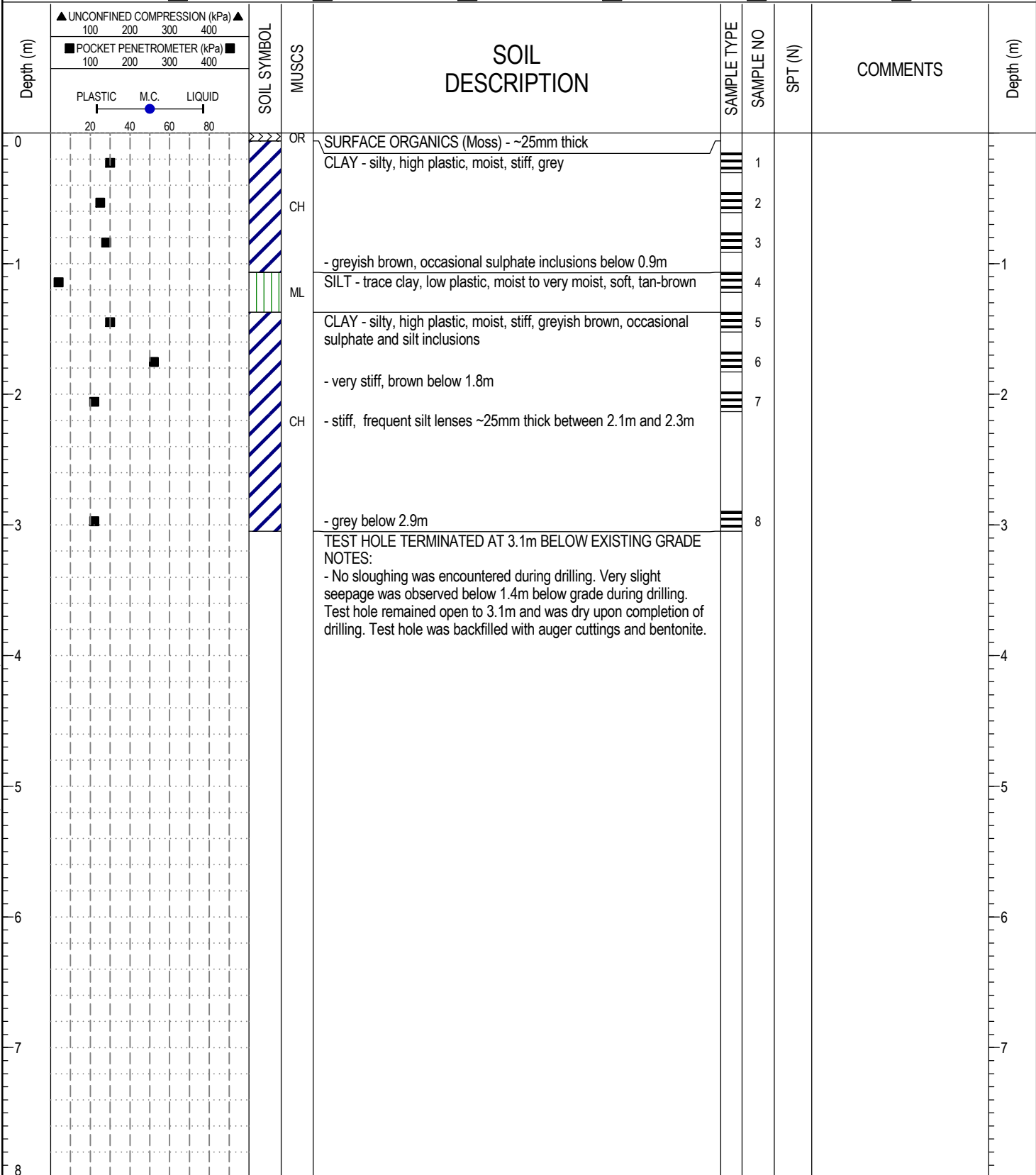
COMPLETION DEPTH: 6.1 m

COMPLETION DATE: July 11, 2013

Page 1 of 1

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: <b>RD24</b>
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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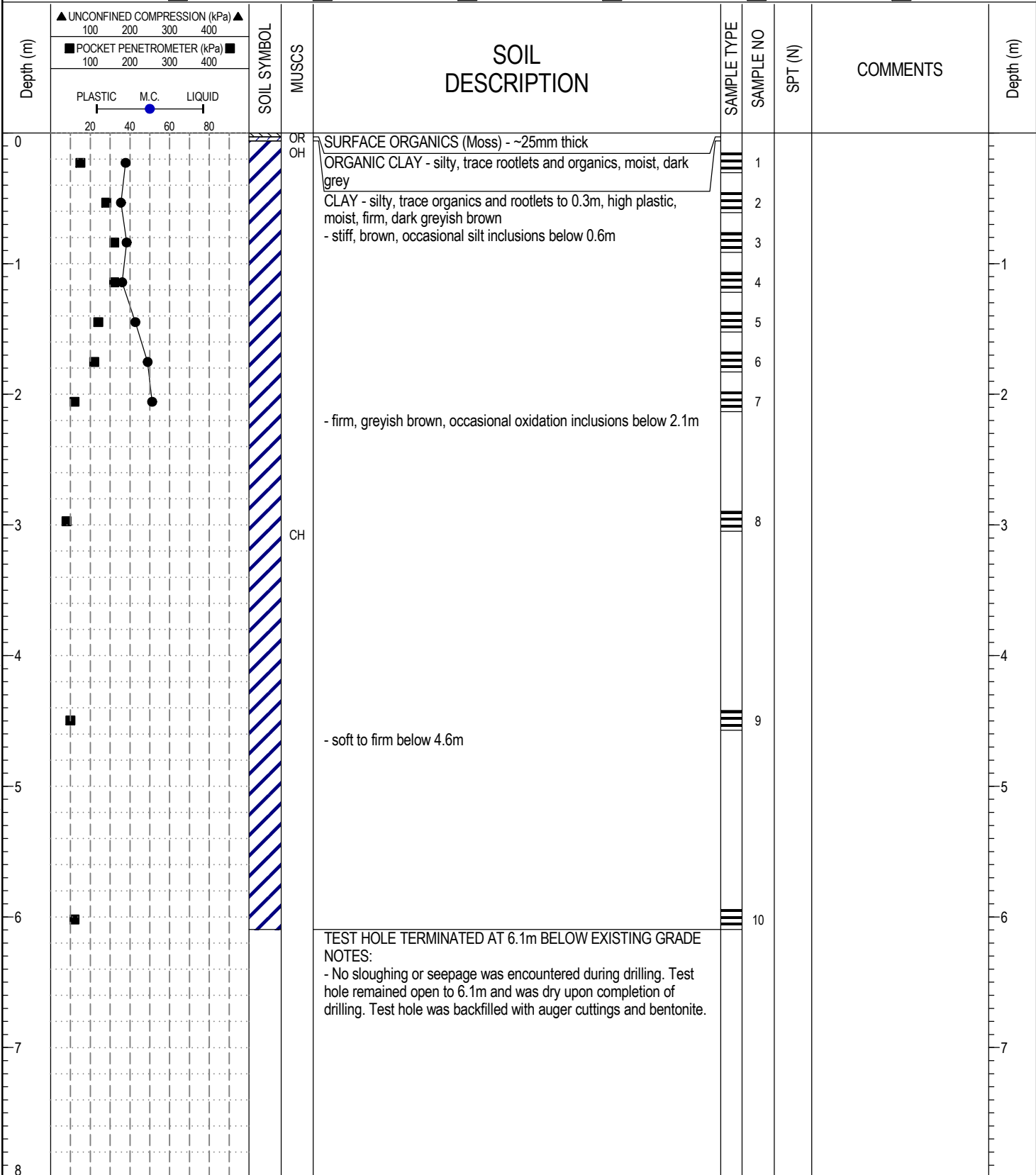
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 Figure No. 36

COMPLETION DEPTH: 3.1 m  
 COMPLETION DATE: July 12, 2013

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: RD25
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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Figure No. 37

COMPLETION DEPTH: 6.1 m  
COMPLETION DATE: July 12, 2013

PROJECT: Prairie Industrial Park		DRILLED BY: AMEC		BORE HOLE NO: <b>RD26</b>	
CLIENT: Terracon Developments				PROJECT NO: WX17188	
LOCATION: Winnipeg, Manitoba		DRILL METHOD: Hand Auger		ELEVATION:	
SAMPLE TYPE		<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample
BACKFILL TYPE		<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout
				<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
				<input type="checkbox"/> Slough	<input type="checkbox"/> Sand

Depth (m)	UNCONFINED COMPRESSION (kPa)		SOIL SYMBOL	MUSCS	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	SPT (N)	COMMENTS	Depth (m)
	▲	■								
0				OR OH	SURFACE ORGANICS (Moss) - ~25mm thick					
0					ORGANIC CLAY - silty, high plastic, greyish brown, frequent rootlets		1			
0					CLAY - silty, high plastic, moist, stiff, greyish brown		2			
0.5					- mottled brown below 0.9m		3			
1.0					- brown, occasional silt inclusions below 1.0m		4			1
1.0					- stiff to very stiff below 1.2m		5			
1.5				CH			6			
2.0							7			2
2.5					- frequent silt inclusions below 2.4m					
3.0					- silt lamination at 2.9m		8			3
3.0					- firm below 2.9m					
3.0					TEST HOLE TERMINATED 3.0m BELOW GRADE					
3.0					NOTES:					
3.0					- No sloughing or seepage was encountered during drilling. Test hole remained open to 3.0m and was dry upon completion of drilling. Test hole was backfilled with auger cuttings.					
4.0										4
5.0										5
6.0										6
7.0										7
8.0										8

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Figure No. 38

COMPLETION DEPTH: 3 m

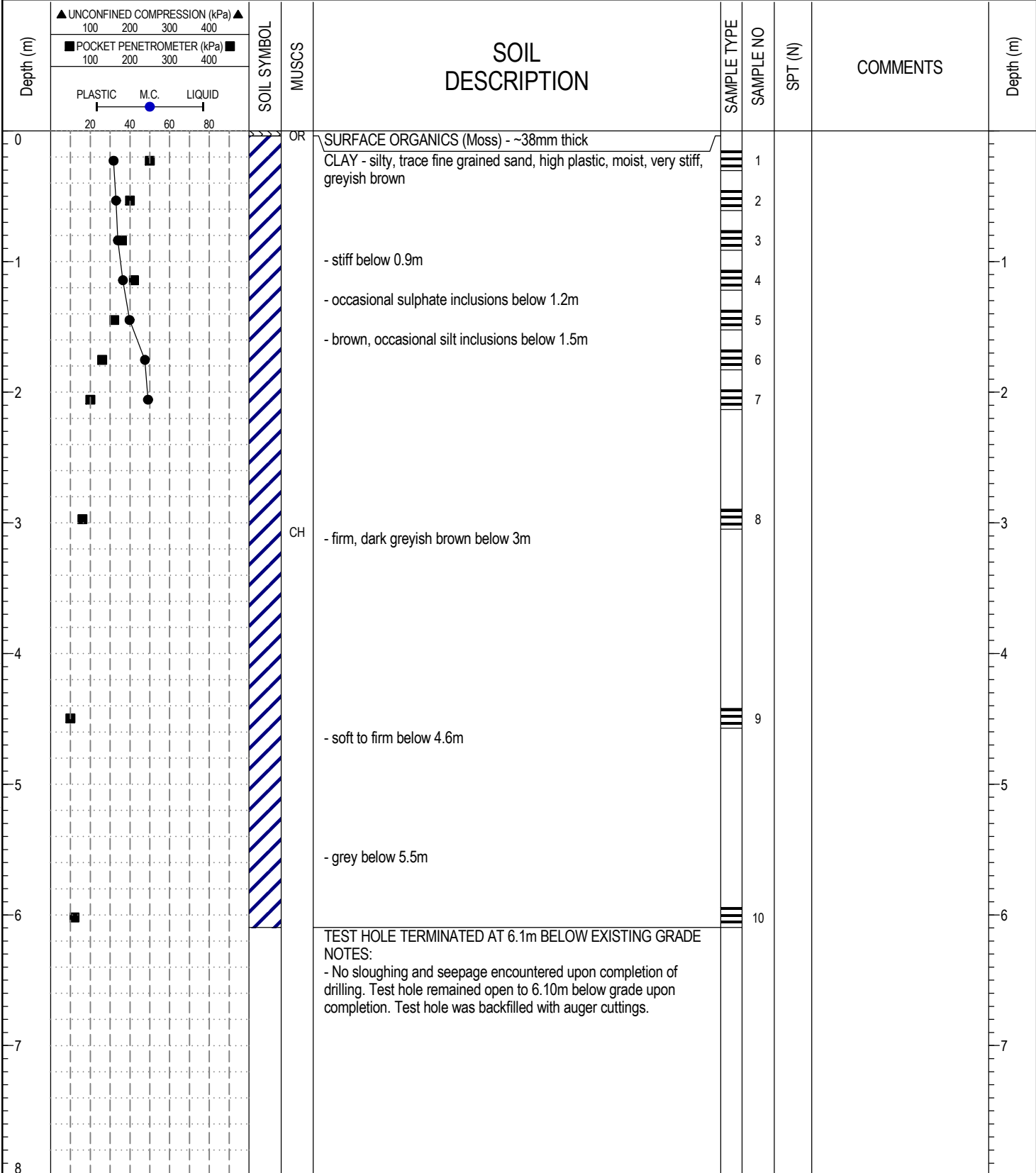
COMPLETION DATE: July 26, 2013

Page 1 of 1

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: RD27
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
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BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand
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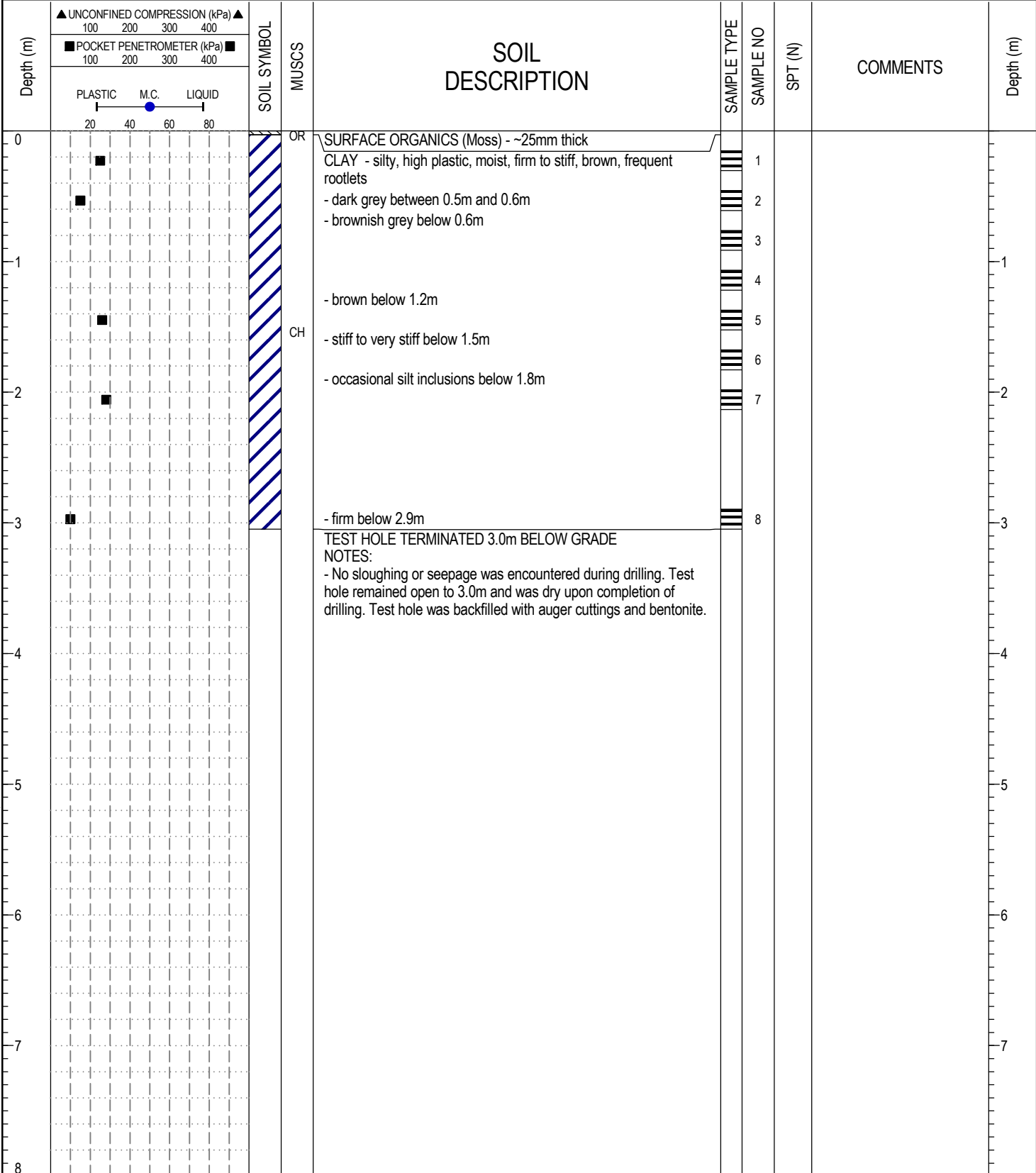
LOGGED BY: AL  
 REVIEWED BY: RB  
 Figure No. 39

COMPLETION DEPTH: 6.1 m  
 COMPLETION DATE: August 26, 2013  
 Page 1 of 1



PROJECT: Prairie Industrial Park	DRILLED BY: AMEC	BORE HOLE NO: <b>RD28</b>
CLIENT: Terracon Developments		PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: Hand Auger	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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Figure No. 40

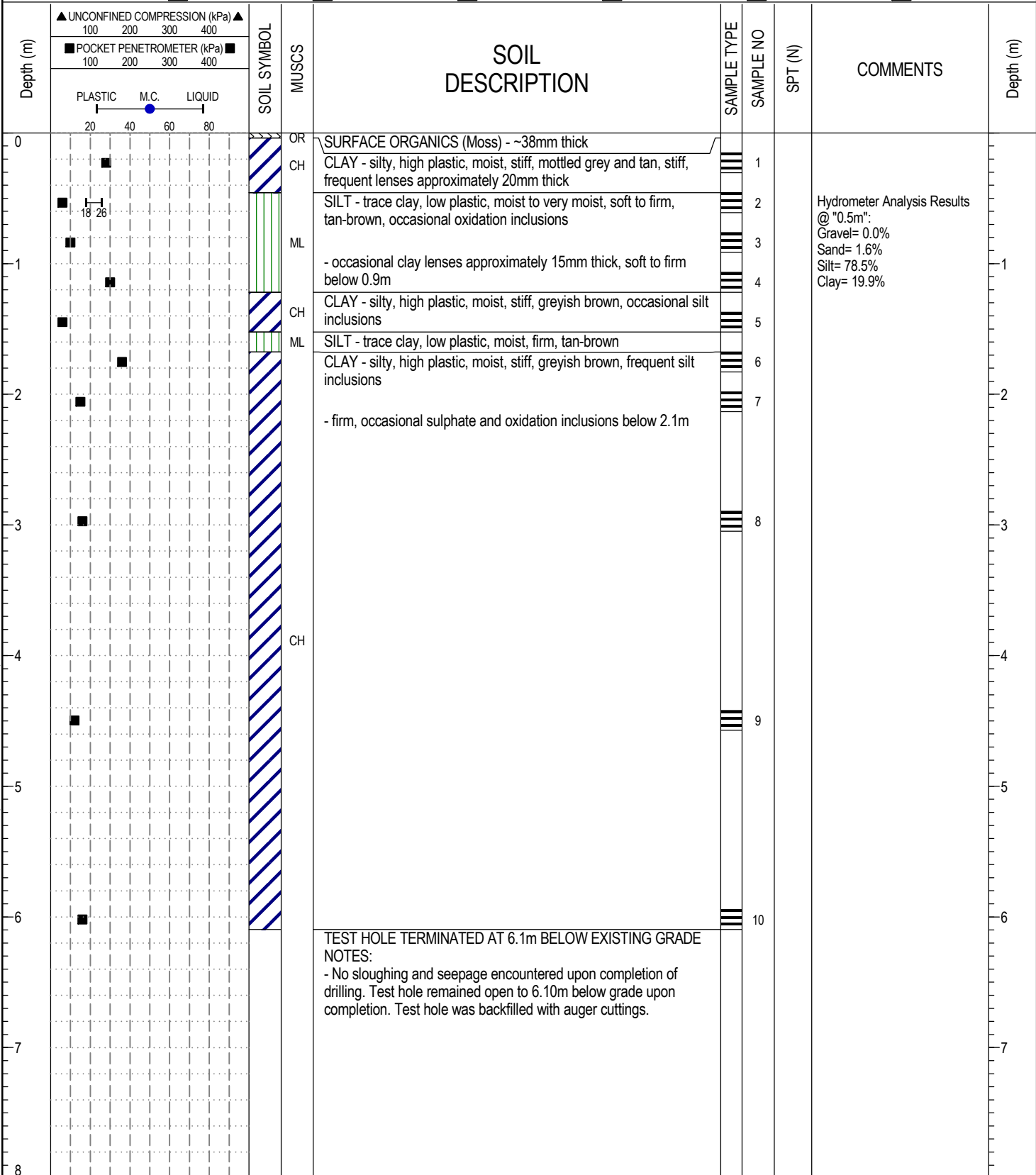
COMPLETION DEPTH: 3 m

COMPLETION DATE: July 26, 2013

Page 1 of 1

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: <b>RD29</b>
CLIENT: Terracon Developments	DRILL TYPE: Track Mounted DR150	PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: 125mm Solid Stem Augers	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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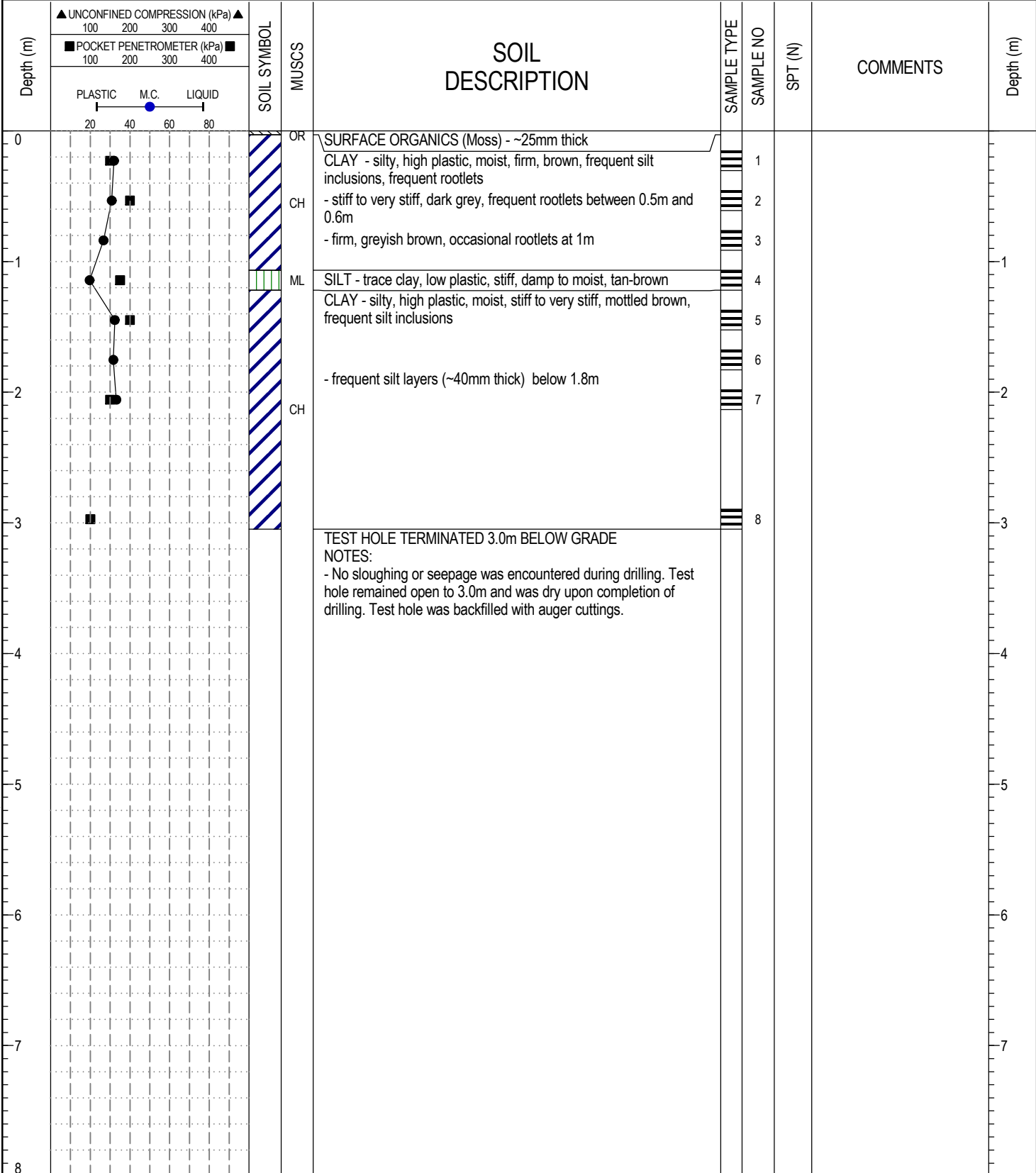
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 REVIEWED BY: RB  
 Figure No. 41

COMPLETION DEPTH: 6.1 m  
 COMPLETION DATE: August 26, 2013

PROJECT: Prairie Industrial Park	DRILLED BY: AMEC	BORE HOLE NO: <b>RD30</b>
CLIENT: Terracon Developments		PROJECT NO: WX17188
LOCATION: Winnipeg, Manitoba	DRILL METHOD: Hand Auger	ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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Figure No. 42

COMPLETION DEPTH: 3 m

COMPLETION DATE: July 26, 2013