

**APPENDIX 'A'**

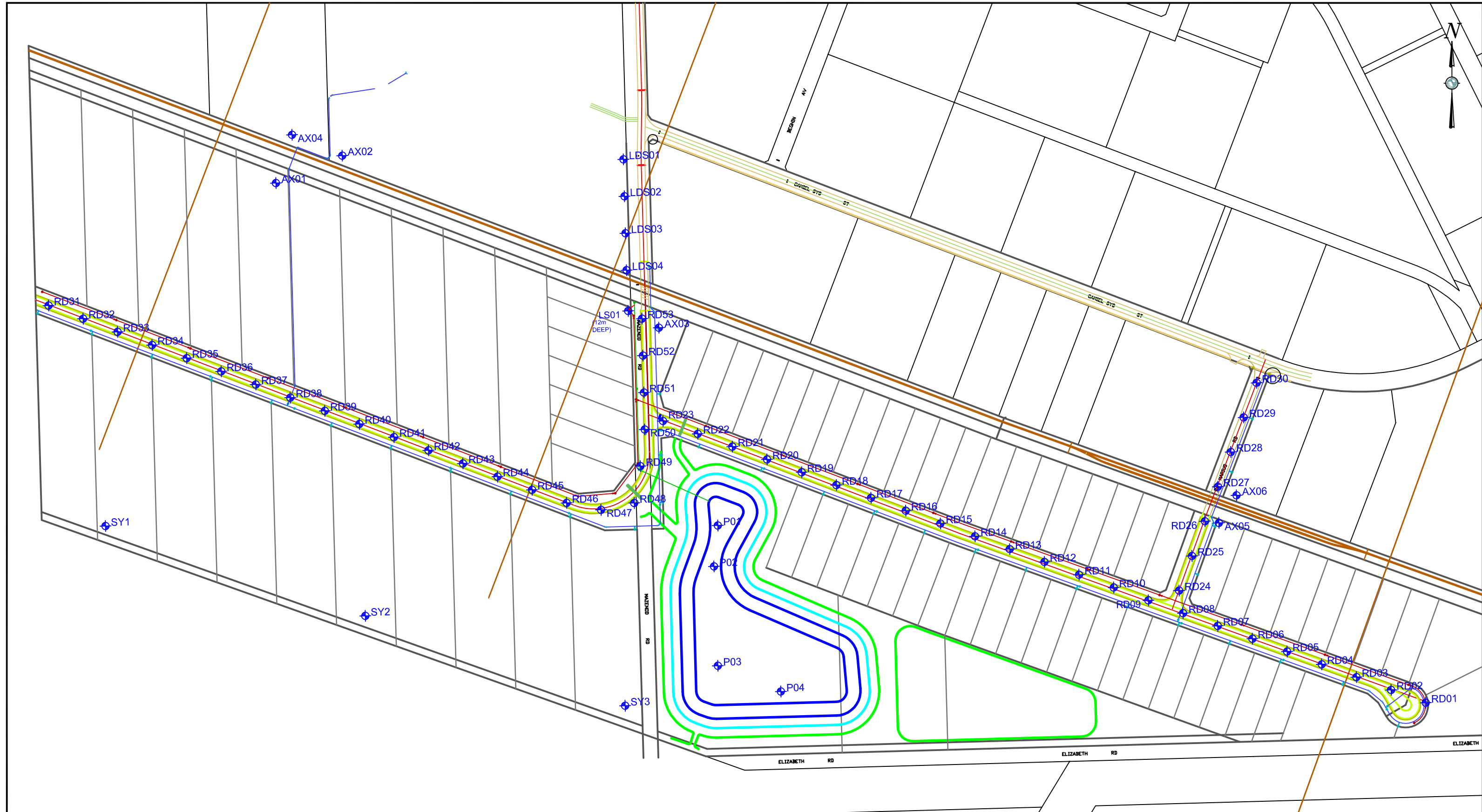
**GEO TECHNICAL REPORT**

## APPENDIX 'A' – GEOTECHNICAL REPORT

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The geotechnical report is provided to aid in 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 LOGO

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



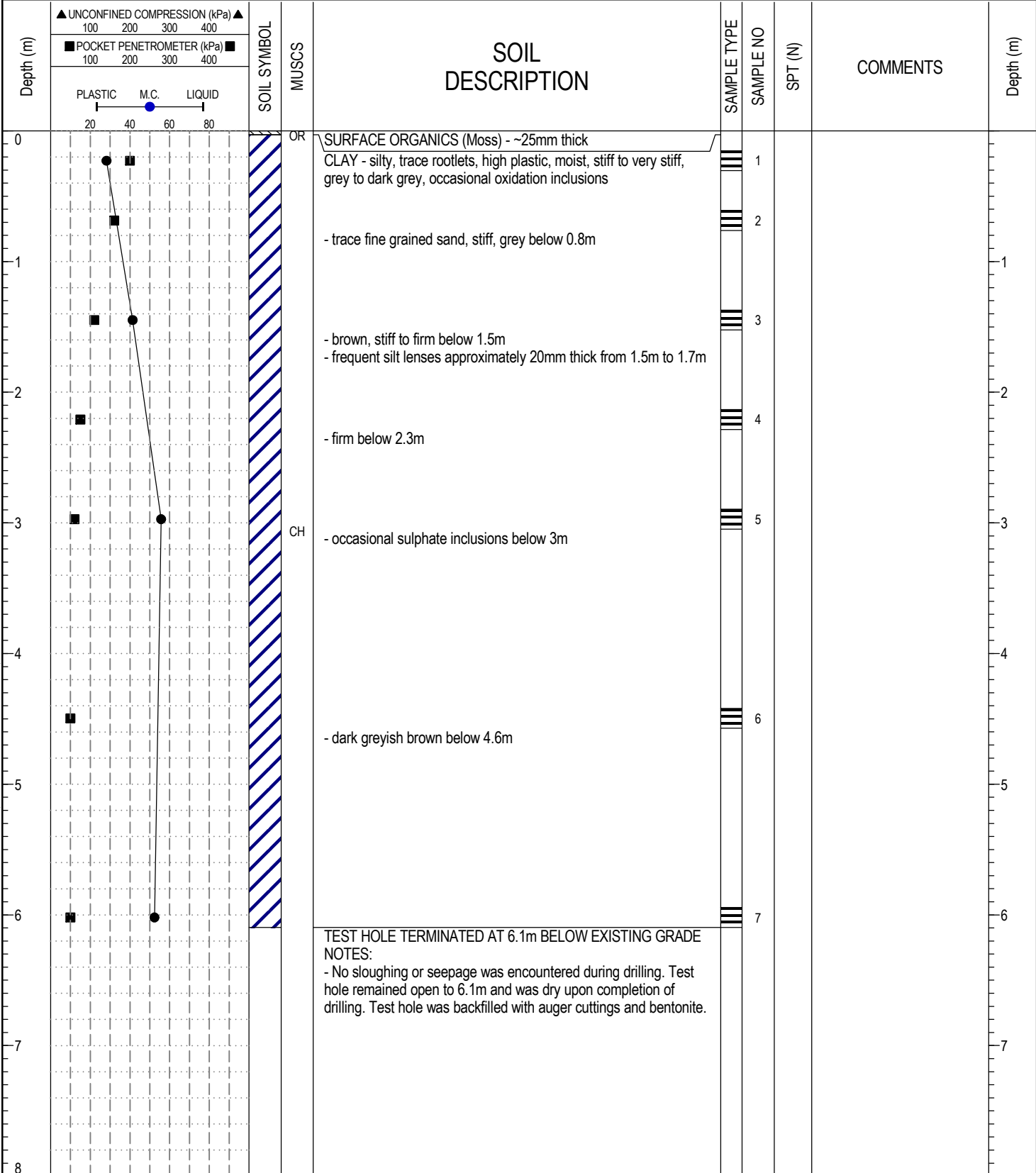
DWN BY: MD  
 CHK'D BY: RB  
 DATUM: NAD83  
 PROJECTION: UTM Zone 14 U  
 SCALE: AS SHOWN

**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>LDS01</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. 4

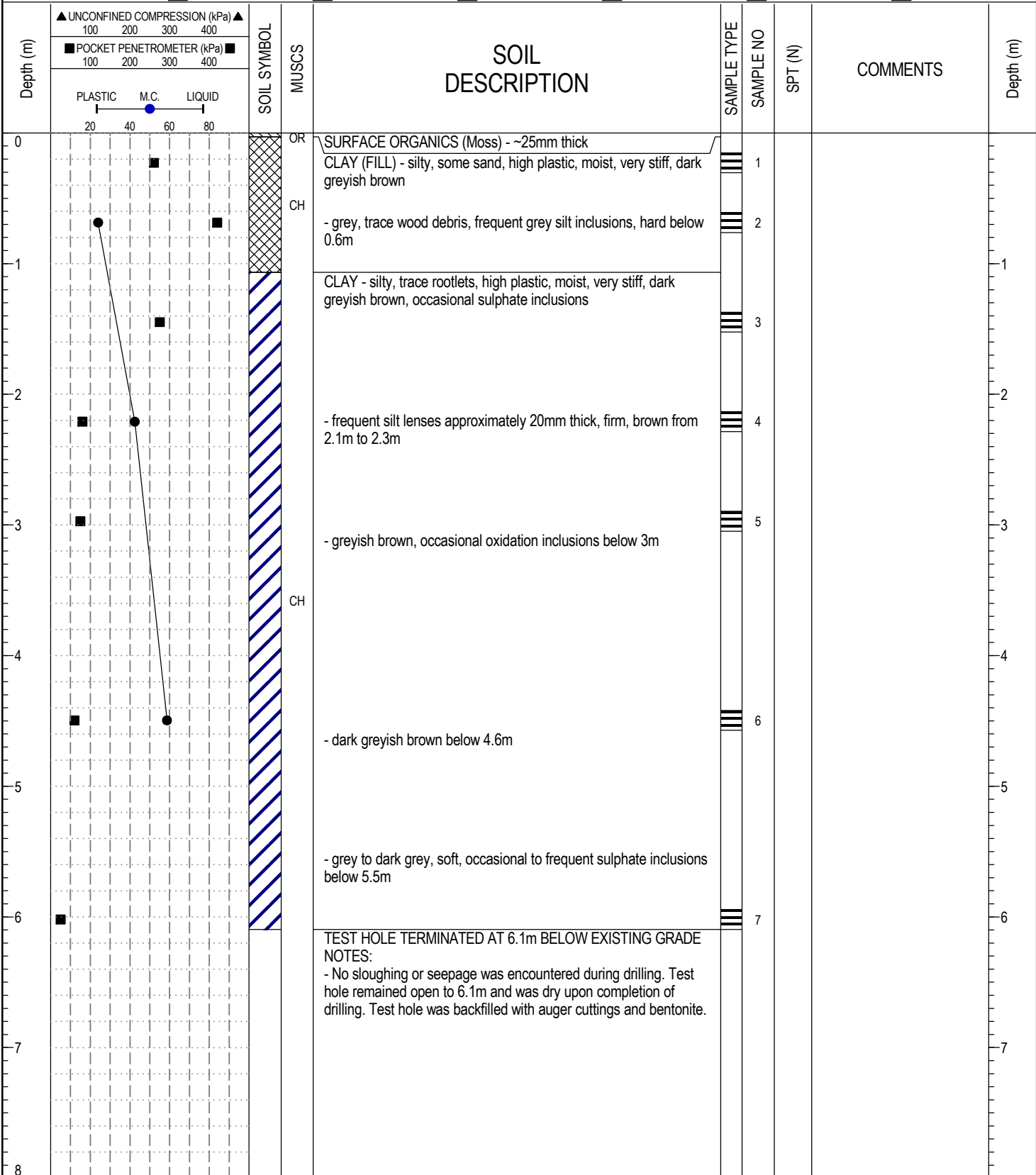
COMPLETION DEPTH: 6.1 m

COMPLETION DATE: August 26, 2013

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PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: <b>LDS02</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. 5

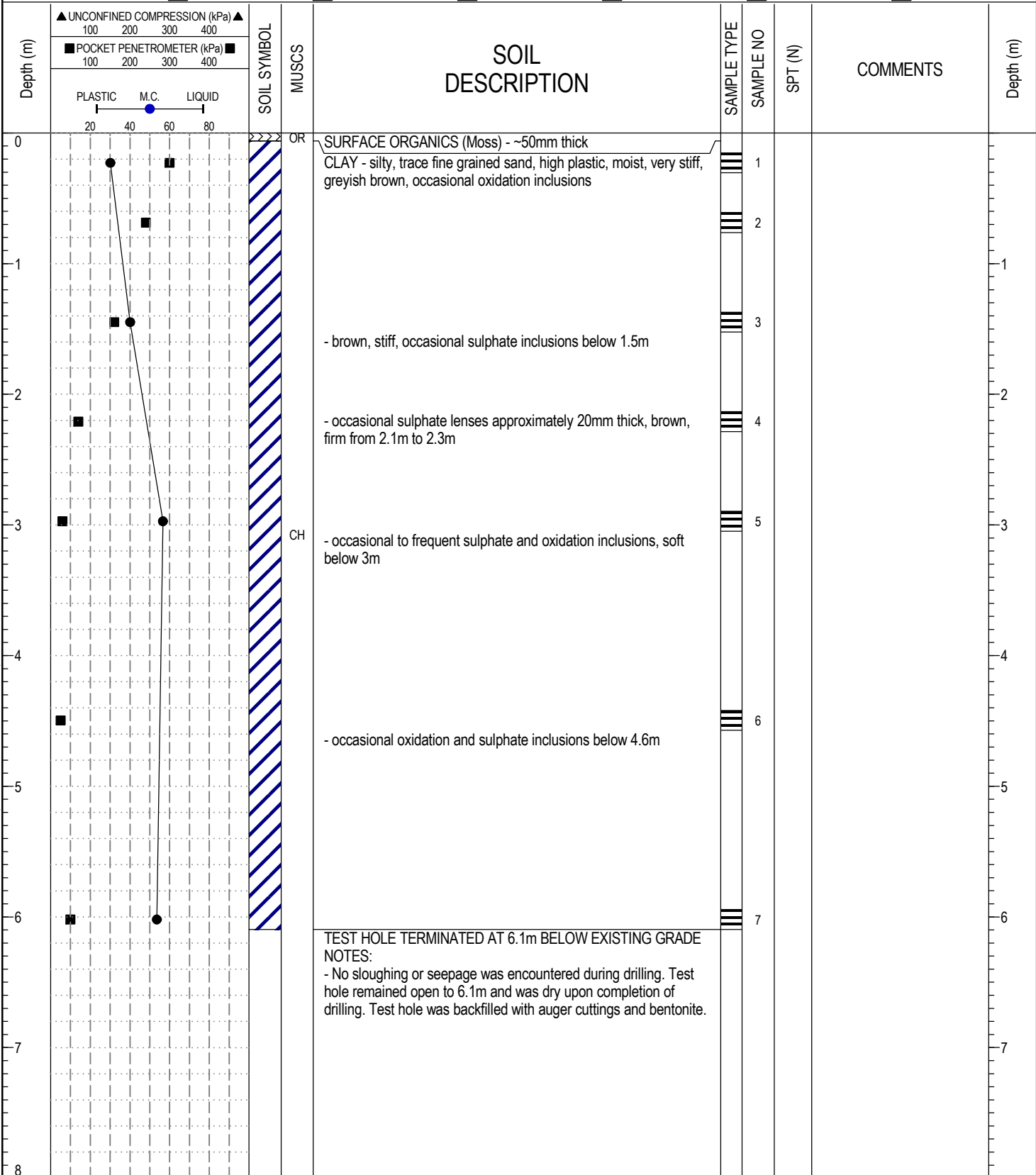
COMPLETION DEPTH: 6.1 m

COMPLETION DATE: August 26, 2013

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PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: <b>LDS03</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. 6

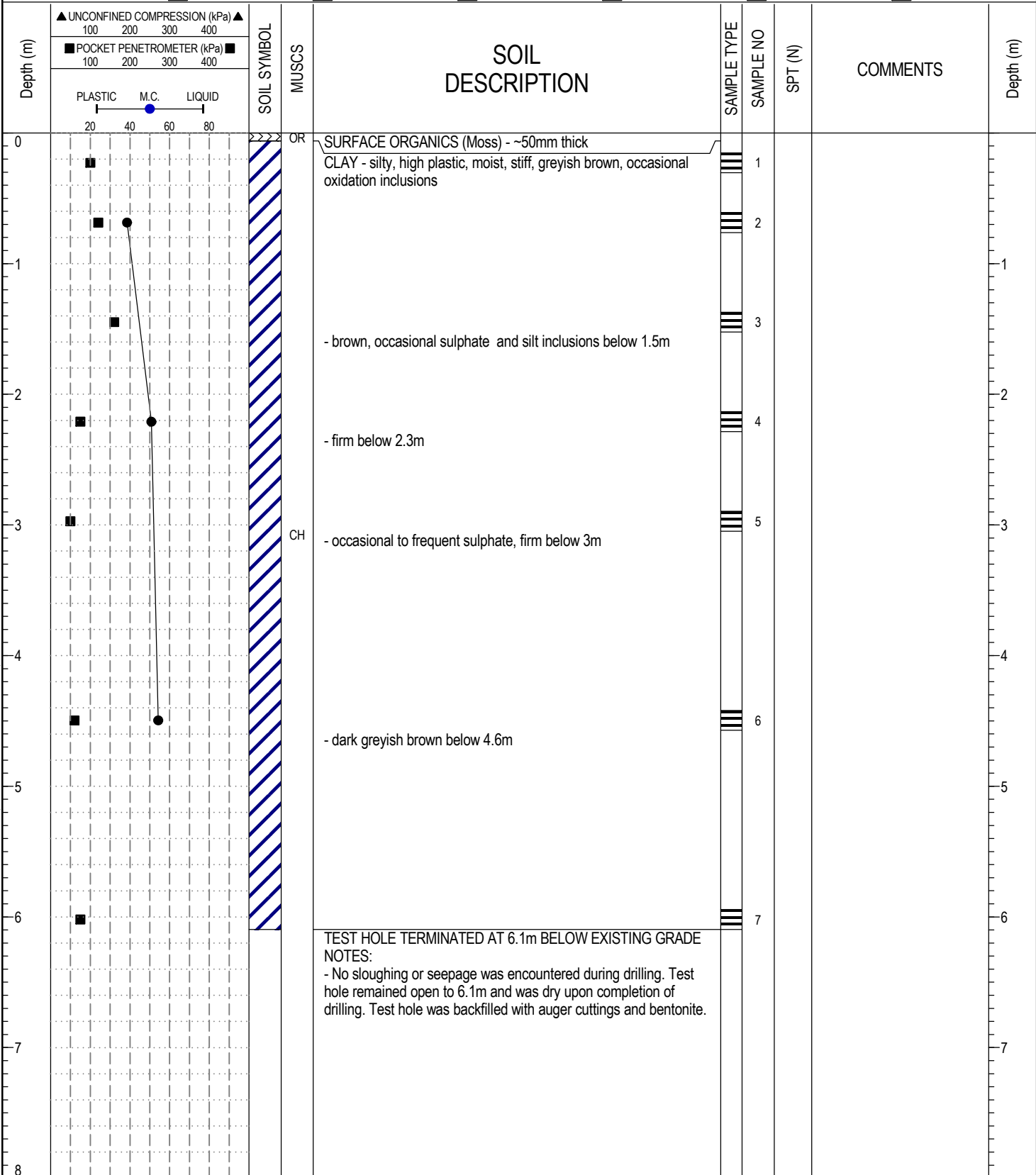
COMPLETION DEPTH: 6.1 m

COMPLETION DATE: August 26, 2013

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PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: <b>LDS04</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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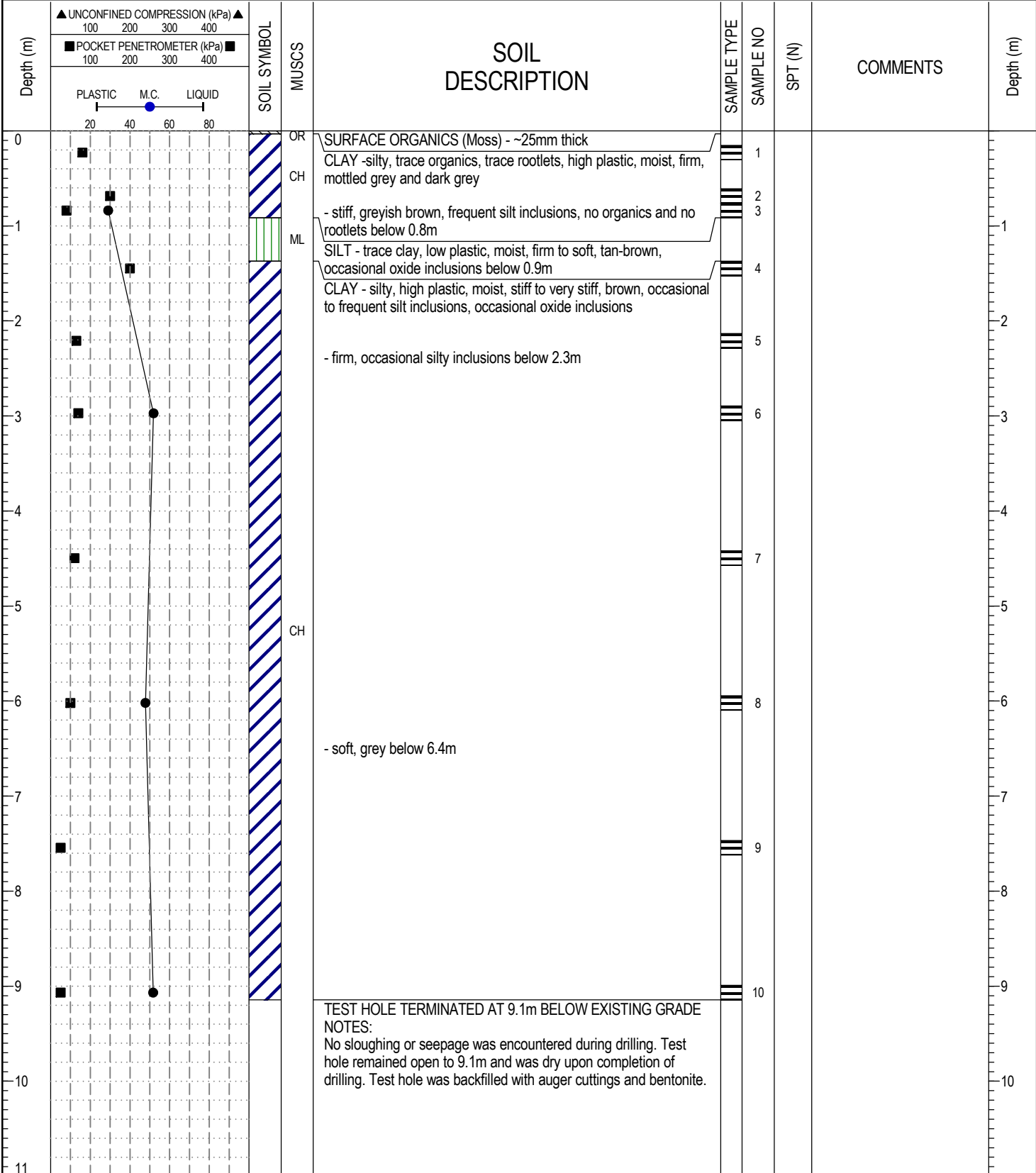
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REVIEWED BY: RB  
Figure No. 7

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

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: P01
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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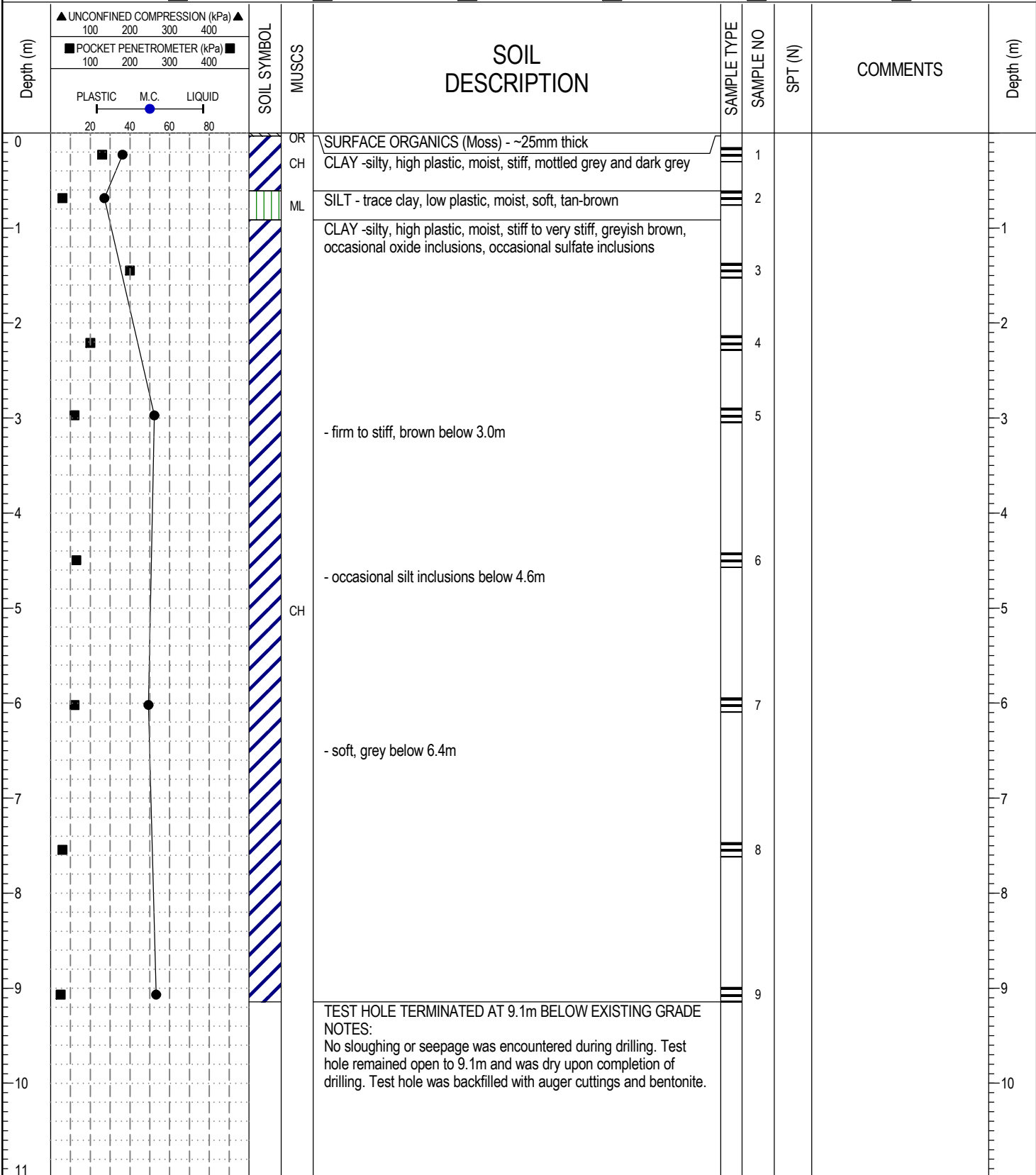
LOGGED BY: AL  
REVIEWED BY: RB  
Figure No. 9

COMPLETION DEPTH: 9.1 m  
COMPLETION DATE: August 21, 2013



PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: P02
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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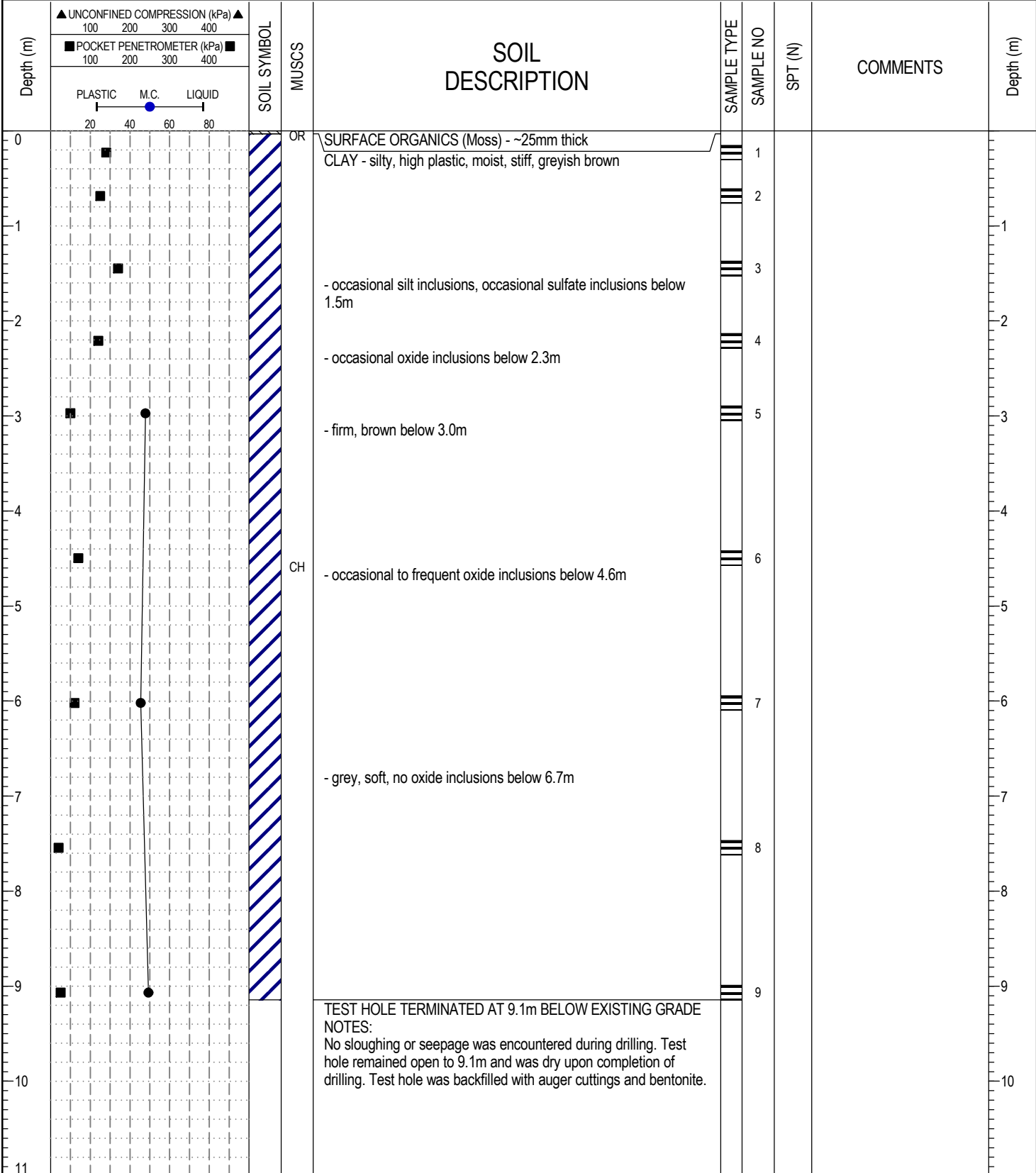
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 Figure No. 10

COMPLETION DEPTH: 9.1 m  
 COMPLETION DATE: August 21, 2013

PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: P03
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. 11

COMPLETION DEPTH: 9.1 m

COMPLETION DATE: August 21, 2013

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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
5.5										5.5
6.0										6.0
6.5										6.5
7.0					- grey, soft below 7.0m					7.0
7.5										7.5
8.0										8.0
8.5										8.5
9.0										9.0
9.1					TEST HOLE TERMINATED AT 9.1m BELOW EXISTING GRADE					9.1
9.5					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.					9.5
10.0										10.0
10.5										10.5
11.0										11.0

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Figure No. 12

COMPLETION DEPTH: 9.1 m

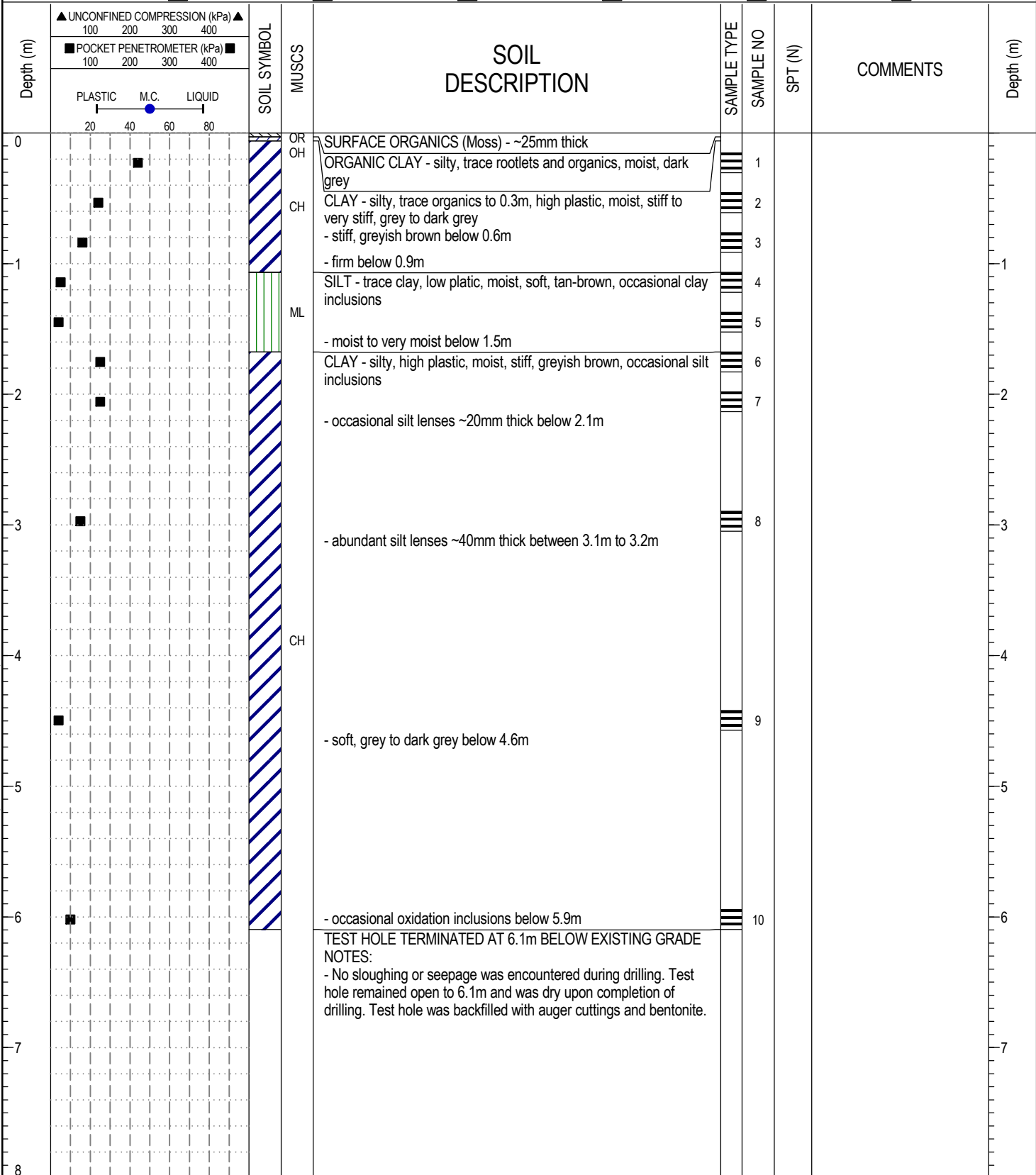
COMPLETION DATE: August 21, 0201

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PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: <b>RD49</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. 61

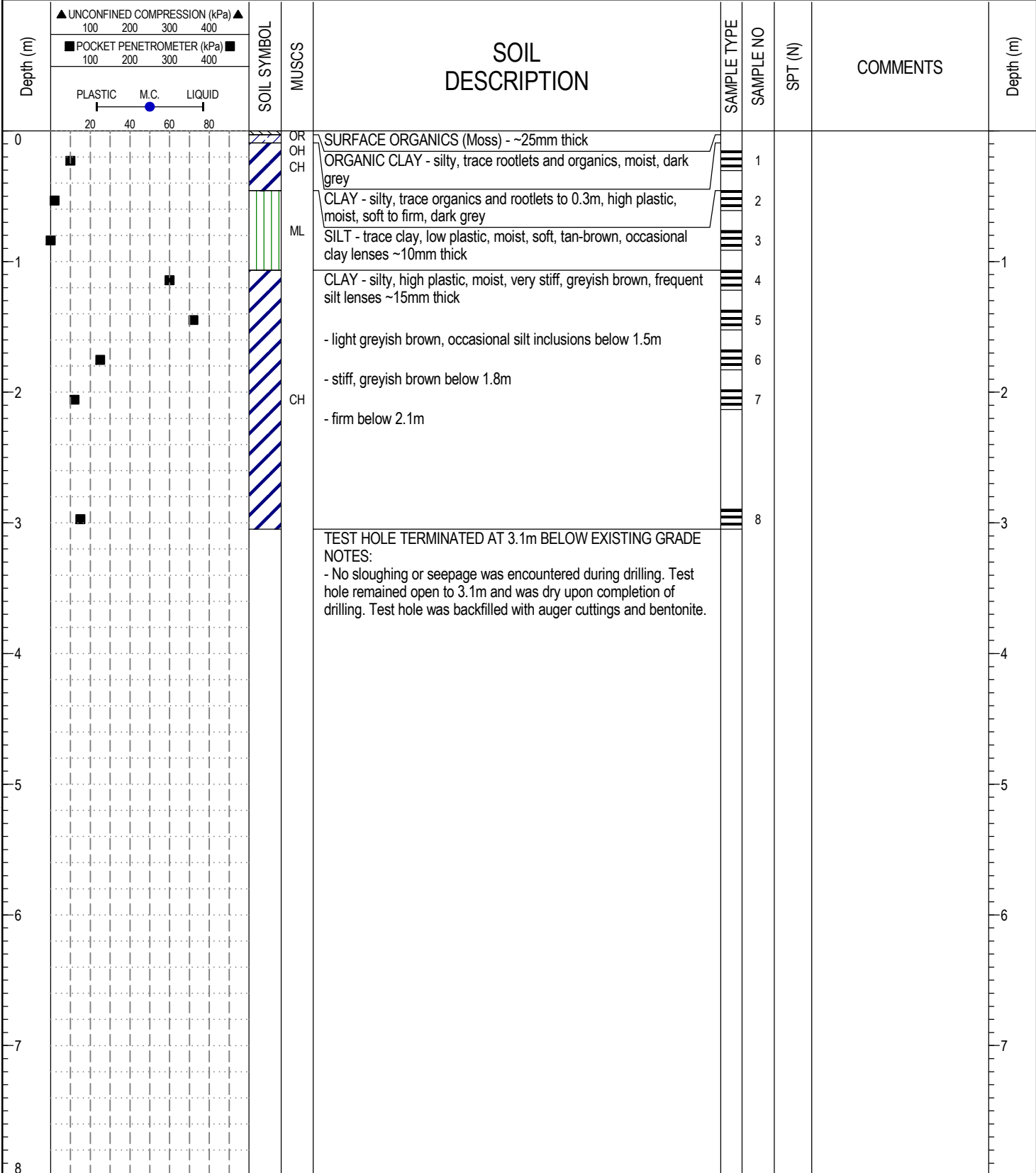
COMPLETION DEPTH: 6.1 m

COMPLETION DATE: July 12, 2013

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PROJECT: Prairie Industrial Park	DRILLED BY: Maple Leaf Drilling Ltd.	BORE HOLE NO: <b>RD50</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. 62

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

PROJECT: Prairie Industrial Park		DRILLED BY: Maple Leaf Drilling Ltd.		BORE HOLE NO: <b>RD51</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
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					0
0				OH	ORGANIC CLAY - silty, trace rootlets and organics, moist, dark grey		1			0
0.3				CH	CLAY - silty, trace organics and rootlets to 0.3m, high plastic, moist, stiff, grey to dark grey, occasional sulphate inclusions - greyish brown, occasional silt lenses ~5mm thick below 0.6m		2			0.3
0.6					- firm, occasional oxidation inclusions below 0.9m		3			0.6
0.9				ML	SILT - trace clay, low plastic, moist, soft, tan-brown, occasional oxidation inclusions		4			0.9
1.5					- moist to very moist below 1.5m		5			1.5
2.1				CH	CLAY - silty, high plastic, moist, stiff, brown, occasional silt inclusions		6			2.1
2.3					- firm, abundant silt lenses ~25mm thick between 2.1m and 2.3m		7			2.3
3.1					- stiff, greyish brown, occasional sulphate inclusions below 3.1m		8			3.1
4.6				CH	- firm, dark greyish brown below 4.6m		9			4.6
5.5					- soft to firm, grey below 5.5m		10			5.5
6.1					TEST HOLE TERMINATED AT 6.1m BELOW EXISTING GRADE					6.1
					NOTES: - Slight to moderate sloughing and moderate seepage was encountered 1.1m below grade during drilling. Test hole remained open to 1.2m and was dry upon completion of drilling. Test hole was backfilled with auger cuttings and bentonite.					

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Figure No. 63

COMPLETION DEPTH: 6.1 m

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PROJECT: Prairie Industrial Park		DRILLED BY: Maple Leaf Drilling Ltd.		BORE HOLE NO: <b>RD52</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
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 checked="" type="checkbox"/> Sand		

Depth (m)	UNCONFINED COMPRESSION (kPa) ▲		SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	SPT (N)	COMMENTS	Depth (m)
	100	200							
0			OR OH	SURFACE ORGANICS (Moss) - ~25mm thick					
0.1				ORGANIC CLAY - silty, trace rootlets and organics, moist, dark grey		1			
0.2				CLAY - silty, trace sand, gravel and rootlets to 0.3m, high plastic, moist, firm to stiff, dark grey to brown		2			
0.3				- stiff, grey to dark grey below 0.6m		3			
0.4				- dark greyish brown, occasional oxidation inclusions below 0.9m		4			1
0.5						5			
0.6			CH			6			
0.7				- greyish brown, frequent silt lenses ~15mm thick below 1.8m		7			2
0.8						8			
0.9				- abundant silt inclusions between 2.3m to 2.6m		9			3
3.1				TEST HOLE TERMINATED AT 3.1m BELOW EXISTING GRADE					
				NOTES: - No sloughing or seepage was encountered during drilling. Test hole remained open to 3.1m and was dry upon completion of drilling. Test hole was backfilled with auger cuttings and bentonite.					

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Figure No. 64

COMPLETION DEPTH: 3.1 m

COMPLETION DATE: July 12, 2013



PROJECT: Prairie Industrial Park		DRILLED BY: Maple Leaf Drilling Ltd.		BORE HOLE NO: <b>RD53</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 checked="" 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 CH	SURFACE ORGANICS (Moss) - ~25mm thick					
0					ORGANIC CLAY - silty, trace rootlets and organics, moist, dark grey		1			
0					CLAY (FILL) - silty, some sand to sandy, trace gravel and rootlets, high plastic, moist, firm, dark greyish brown		2			
0					CLAY - silty, trace organics and rootlets to 0.5m, high plastic, moist, stiff, grey to dark grey, occasional sulphate inclusions - dark greyish brown below 0.9m		3			
0					- greyish brown below 1.5m		4			
0					- brown, occasional silt inclusions below 1.8m		5			
0					- firm, abundant silt lenses ~25mm thick at 2.4m		6			
0							7			
0							8			
0				CH			9			
0							10			
0					- occasional to frequent silt inclusions below 4.6m		11			
0					- soft, grey below 5.5m					
0					TEST HOLE TERMINATED AT 6.1m BELOW EXISTING GRADE					
0					NOTES: - No sloughing or seepage was encountered during drilling. Test hole remained open to 6.1m and was dry upon completion of drilling. Test hole was backfilled with auger cuttings and bentonite.					

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Figure No. 65

COMPLETION DEPTH: 9.1 m

COMPLETION DATE: July 12, 2013

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