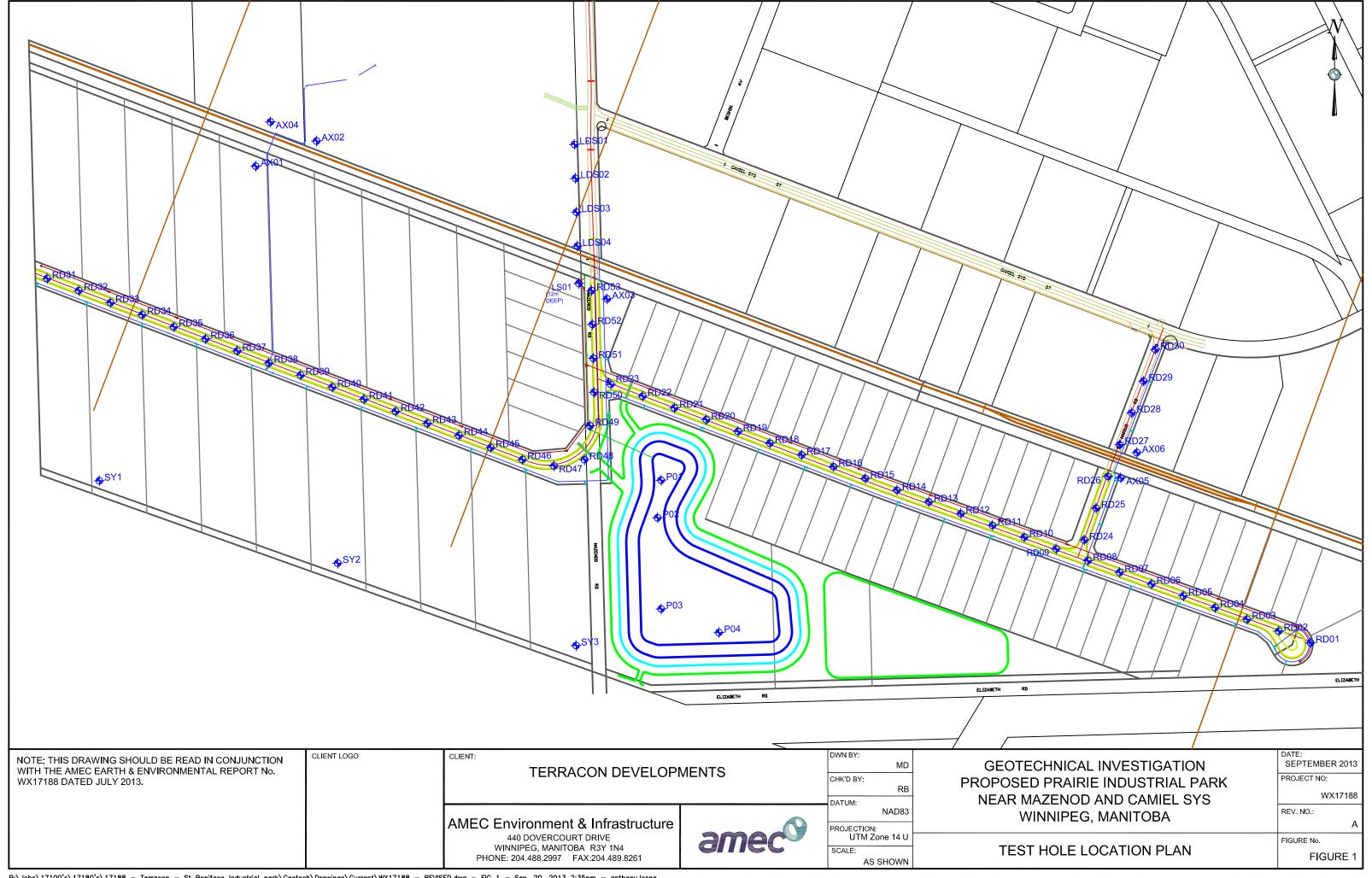
APPENDIX 'A' GEOTECHNICAL REPORT

APPENDIX 'A' - GEOTECHNICAL REPORT

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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.



PROJ	ECT: Prairie Industrial Pa	ark	DRII	DRILLED BY: Maple Leaf Drilling Ltd.			BORE HOLE NO: AX05		
CLIEN	NT: Terracon Developme	nts	DRII	LL TYPE: Track Mo	ounted DR150		PROJ	ECT NO: WX17188	
LOCA	TION: Winnipeg, Manitol	ра	DRII	LL METHOD: 125r	nm Solid Stem Augers		ELEV	ATION:	
SAMF	PLE TYPE She	lby Tube	No Recovery	SPT (N)	Grab Sample		∭Split-Pe		
BACK		tonite [Pea Gravel	Drill Cuttings	Grout	[Slough	Sand	
Depth (m)	■ UNCONFINED COMPRESSION (100 200 300 40 ■ POCKET PENETROMETER (kF 100 200 300 40 PLASTIC M.C. LIQUI 20 40 60 80	SOIL SYMBOL		SOIL DESCRIPT	ΓΙΟΝ	SAMPLE TYPE	SAMPLE NO SPT (N)	COMMENTS	Depth (m)
-1		OH OH	ORGANIC CLAY grey CLAY - silty, trac	e rootlets to 0.3m, hig	and organics, moist, dark th plastic, moist, stiff,		1 2		
-2			- firm, brown, occ	easional sulphate inclu	usions below 2.3m		4		_2
-3 - - - - -4 - -		CH		asional to frequent su	lphate inclusions at 3.1m		6		
HNICAL REVISED)					ions ~3mm dia. below 6.1m		7		5
PJ 13/09/24 09:15 AM (GEOTEC			- soft to firm, dark	k greyish brown below	v 7.6m		8		
17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK GPJ 1309/24 09:15 AM (GEOTECHNICAL LITTER TO THE TOTAL			NOTES: Very slight squee seepage was end open to 8.5m and	RMINATED AT 9.1m E ezing was observed be countered during drilli	BELOW EXISTING GRADE elow 8.5m during drilling. No ng. Test hole remained etion of drilling. Test hole bentonite.))	9		-9 10
HER.		414505		£	LOGGED BY: AL		COMPL	ETION DEPTH: 9.1 m	
88	<u>mec[©]</u>		nvironment & In Winnipeg, Manit	nha	REVIEWED BY: RB		COMPL	ETION DATE: July 12, 2013	
	リリてし	· ·	rinnpey, maili	Joba	Figure No. 3			Page	e 1 of 1

PRO	OJECT: Prairie Industrial Pa	rk	DRILLED BY: Maple	DRILLED BY: Maple Leaf Drilling Ltd.			BORE HOLE NO: P04		
-	ENT: Terracon Developmer		DRILL TYPE: Track N				ECT NO: WX17188		
	CATION: Winnipeg, Manitob			imm Solid Stem Augers		ELEVA			
	_	by Tube	No Recovery SPT (N)	Grab Sample		Split-Pen			
BAC		onite	Pea Gravel Drill Cutting	gs Grout	Ш	Slough	Sand	1	
Depth (m)	▲ UNCONFINED COMPRESSION (F. 100 200 300 400 100 200 300 400 100 200 300 400 100 200 300 400 100 200 300 400 100 200 300 400 100 100 100 100 100 100 100 100 1	L SYMBOL MUSCS	SOIL DESCRIP		SAMPLE TYPE SAMPLE NO	SPT (N)	COMMENTS	Depth (m)	
- 0 - - - - - - 1		OF	CLAY - silty, trace rootlets, trace orga	anics, medium plastic, moist,	1 2 3				
-2		ML	SILT - trace clay, low plastic, damp, tan, occasional sulfate and occasional CLAY - silty, high plastic, moist, very occasional sulfate and occasional sil - frequent silt layers (~25mm thick), f 1.5m and 1.m - stiff, brown, frequent silty and frequents.3m	al oxide inclusions stiff, greyish brown, inclusions irm to stiff, brown between	4 5			2 2 2	
3			- firm, occasional silt and occasional oxidation inclusions below 3.0m	sulfate, and occasional	7			3	
5		CH	- no sulfate inclusions below 4.6m		8			4 5 5	
(GEOTECHNICAL REVISED)			- grey, soft below 7.0m		9			-6 6 	
ARK.GPJ 13/09/24 09:15 AM			g J,		10			- - - - - - 8 - - - - - - - - - - - - -	
- TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL CALL)			TEST HOLE TERMINATED AT 9.1m NOTES: No sloughing or seepage was encou hole remained open to 9.1m and was drilling. Test hole was backfilled with	ntered during drilling. Test dry upon completion of	11			-9 	
ER.		AMEC	Environment & Infrastructure	LOGGED BY: AL			ETION DEPTH: 9.1 m	<u>'</u>	
17188 -	<u>əmec[©]</u>	AIVIEC	Winnipeg, Manitoba	REVIEWED BY: RB		COMPLE	ETION DATE: August 21, 020		
17	<i>JI I I</i>			Figure No. 12			Page	1 of 1	

TEST HOLE TERMINATED AT 6.1m BELOW EXISTING GRADE TO THE STANDE TERMINATED AT 6.1m BELOW EXISTING THE STANDE TERMINATED AT 6.1m BELOW EXISTING THE STANDE TERMINATED AT 6.1m BE	PRC	DJECT: Prairie Industrial Pa	ark		DRILLED BY: Maple Leaf Drilling Ltd.			E	BORE HOLE NO: RD01			
SAME I TYPE BACKFILL	CLIE	NT: Terracon Developme	nts		DRILL TYP	E: Track Mo	unted DR150		F	PROJE	ECT NO: WX17188	
BACKFILL TYPE Description	LOC	ATION: Winnipeg, Manitol	ра		DRILL MET	HOD: 125m	m Solid Stem Aug	gers	E	ELEVA	ATION:	
ANADONESCONTESSOURISM A SE SOLUTION PASTIC MC DOUD O	SAM	IPLE TYPE She	lby Tube	✓ No Reco	very	SPT (N)	Grab Sa	ample		Split-Per		
SOIL DESCRIPTION PASTO MC DOUD NO 40 80 80 80 80 80 80 80 80 80 80 80 80 80	BAC	KFILL TYPE Ben	tonite	Pea Grav	rel 🛮	Drill Cuttings	Grout			Slough	Sand	
SURFACE ORGANIC SLAV - 25mm thick organics, moist, dark grey Start, dark grey CH - 2 - 2 - 3 - 4 - 3 - 3 - 4 - 3 - 3 - 3 - 4 - 3 - 3	Depth (m)	POCKET PENETROMETER (kF 100 200 300 40	Pa) ■ OSIT SAMB(NOON NOON NOON NOON NOON NOON NOON NOO	DE		ION	SAMPLE TYPE	SAMPLE NO	SPT (N)	COMMENTS	Depth (m)
AMEC Environment & Infrastructure Winnipeg, Manitoba LOGGED BY: AL REVIEWED BY: RB COMPLETION DEPTH: 6.1 m REVIEWED BY: RB Figure No. 13 Page 1.0	REVISED)			TEST HOI NOTES: No slough hole rema	ty, trace organicy from the common terms of th	ED AT 6.1m BE was encounte 1m and was dr	ELOW EXISTING Gred during drilling. Tyupon completion of the second seco	RADE	2 3 4 5 6 7			- - - - - -
THOUGHOUTH THE PROPERTY OF THE	17188 - TERF	AMEC Environme Winnipeg				cture		3	_		ETION DATE: July 11, 20 ⁻	3 age 1 of 1

PROJ	IECT: Prairie Industrial	l Park	DRILLED	DRILLED BY: Maple Leaf Drilling Ltd.			BORE HOLE NO: RD02		
CLIEN	NT: Terracon Developr	ments	DRILL TY	PE: Track Mounte	ed DR150		PROJ	ECT NO: WX17188	
LOCA	TION: Winnipeg, Man	nitoba		ETHOD: 125mm S			ELEV	ATION:	
SAMP	PLE TYPE :	Shelby Tube	No Recovery	SPT (N)	Grab Sample		Split-Pe		
BACK		Bentonite	Pea Gravel	Drill Cuttings	Grout	\square	Slough	Sand	
Depth (m)	■ UNCONFINED COMPRESSI 100 200 300 ■ POCKET PENETROMETEI 100 200 300 PLASTIC M.C. L. 20 40 60			SOIL DESCRIPTIO	N	SAMPLE TYPE SAMPLE NO	SPT (N)	COMMENTS	Depth (m)
17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 8		CI	GRGANIC CLAY - silty grey CLAY - silty, trace orga moist, stiff, greyish bro - brown, occasional silt	ATED AT 3.1m BELO ge was encountered 3.1m and was dry up	W EXISTING GRADE during drilling. Test on completion of	1 2 3 4 5 6 7 8 8 8			
17188 - TER	mec	AMEC	Environment & Infrast Winnipeg, Manitoba	REV	GED BY: AL EWED BY: RB e No. 14			ETION DEPTH: 3.1 m ETION DATE: July 11, 2013 Page	1 of 1

PRO	OJECT: Prairie Industrial Pa	ark		DRILLED BY: Maple I	DRILLED BY: Maple Leaf Drilling Ltd.			BORE HOLE NO: RD03		
CLIE	ENT: Terracon Developmer	nts		DRILL TYPE: Track N	Nounted DR150		PROJ	ECT NO: WX17188		
LOC	CATION: Winnipeg, Manitob	oa		DRILL METHOD: 125	mm Solid Stem Aug			ATION:		
SAN	MPLE TYPE Shel	by Tube		✓ No Recovery SPT (N)	Grab Sa		∭Split-Pe			
BAC		tonite		Pea Gravel Drill Cutting	s Grout	[Slough	Sand		
Depth (m)	▲ UNCONFINED COMPRESSION (I 100 200 300 40	SOIL SYMBOL	MUSCS	SOIL DESCRIP		SAMPLE TYPE	SAMPLE NO SPT (N)	COMMENTS	Depth (m)	
- 0			OR OH	SURFACE ORGANICS (Moss) - ~25r ORGANIC CLAY - silty, trace rootlets grey CLAY - silty, trace rootlets to 0.3m, hi grey to black - some silt and clay lenses ~15mm th SILT - trace clay, low plastic, moist to occasional oxidation inclusions CLAY - silty, high plastic, moist, firm to	and organics, moist, d gh plastic, moist, stiff, ick at 1.8m very moist, firm, tan-b	dark	1 2 3 4 5 6 6 7 8 8		1 1 	
RRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL				- occasional silt inclusions below 4.6r TEST HOLE TERMINATED AT 6.1m NOTES: - no sloughing or seepage was encoundle remained open to 6.1m and was drilling. Test hole was backfilled with	BELOW EXISTING GF intered during drilling. dry upon completion o	RADE Test of	9 10 COMPL	ETION DEPTH: 6.1 m		
88 - T	amac ^V	AME		nvironment & Infrastructure Winnipeg, Manitoba	REVIEWED BY: RB			ETION DATE: July 11, 2013		
17188	AMEC Environment Winnipeg			wiiiiipeg, waiiitoba	Figure No. 15			Page	1 of 1	

PROJ	ECT: Prairie In	dustrial Parl	k		DRILLED BY: Maple	DRILLED BY: Maple Leaf Drilling Ltd.			BORE HOLE NO: RD04		
CLIEN	NT: Terracon De	evelopment	S		DRILL TYPE: Track N	Nounted DR150		PROJ	ECT NO: WX17188		
LOCA	TION: Winnipe	g, Manitoba	ì		DRILL METHOD: 125	mm Solid Stem Augers		ELEV	ATION:		
SAMP	PLE TYPE	Shelby	y Tube		☑ No Recovery ☑ SPT (N)	Grab Sample		Split-Pe			
BACK	FILL TYPE	Bentor	nite		Pea Gravel Drill Cutting	gs Grout		Slough	Sand		
Depth (m)	■ UNCONFINED CO 100 200 ■ POCKET PENET 100 200 PLASTIC M 20 40	300 400 TROMETER (kPa) 300 400 I.C. LIQUID		MUSCS	SOIL DESCRIP		SAMPLE TYPE	SPT (N)	COMMENTS	Depth (m)	
17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED)				CH ML	SURFACE ORGANICS (Moss) - ~25i ORGANIC CLAY - silty, trace rootlets grey CLAY - silty, trace organics and rootle moist, stiff, grey to dark grey SILT - some clay, low to medium plas - moist to very moist, firm to soft belo CLAY - silty, high plastic, moist, stiff, TEST HOLE TERMINATED AT 3.1m NOTES: - No sloughing or seepage was encountly remained open to 3.1m and was drilling. Test hole was backfilled with	and organics, moist, dark ets to 0.6m, high plastic, etic, moist, firm, tan-brown w 1.8m greyish brown BELOW EXISTING GRADE untered during drilling. Test dry upon completion of		2 2 3 4 5 5 6 6 7 7			
17188 - TERRA	me		AMI		 nvironment & Infrastructure Winnipeg, Manitoba	LOGGED BY: AL REVIEWED BY: RB Figure No. 16			ETION DEPTH: 3.1 m ETION DATE: July 11, 2013 Page	1 of 1	

PROJ	ECT: Prairie Industrial Pa	rk	DRILLED B	DRILLED BY: Maple Leaf Drilling Ltd.			BORE HOLE NO: RD05		
CLIEN	NT: Terracon Developmen	ts	DRILL TYPI	E: Track Mount	ed DR150		PROJE	ECT NO: WX17188	
LOCA	TION: Winnipeg, Manitob	а			Solid Stem Augers			ATION:	
SAMF	PLE TYPE Shelt	by Tube		SPT (N)	Grab Sample		Split-Pe		
BACK	FILL TYPE Bento		Pea Gravel	Drill Cuttings	Grout		Slough	Sand	
Depth (m)	■ UNCONFINED COMPRESSION (k 100 200 300 400 ■ POCKET PENETROMETER (kPz 100 200 300 400 PLASTIC M.C. LIQUID 20 40 60 80	L SYMB(SOIL SCRIPTIO		SAMPLE TYPE	SPT (N)	COMMENTS	Depth (m)
17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) The state of t		CF	CRGANIC CLAY - silty, tr grey CLAY - silty, trace organic moist, stiff, dark grey to b	ED AT 6.1m BELO e was encountere 1m and was dry up	W EXISTING GRADE d during drilling. Test con completion of	1 1 2 3 3 4 4 5 6 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -
188 - TERRACC	AMEC Environment Winnipeg,			REV	GED BY: AL IEWED BY: RB			ETION DEPTH: 6.1 m ETION DATE: July 11, 20	
₽		- - :	Figu	re No. 17			ŀ	Page 1 of 1	

PROJ	IECT: Prairie Industrial F	Park	DRILL	DRILLED BY: Maple Leaf Drilling Ltd.			BORE HOLE NO: RD06		
CLIEN	NT: Terracon Developme	ents	DRILL	_ TYPE: Track Mount	ed DR150		PROJI	ECT NO: WX17188	
LOCA	TION: Winnipeg, Manito	oba	DRILL	METHOD: 125mm	Solid Stem Augers		ELEV	ATION:	
SAMP	PLE TYPE Sh	nelby Tube	✓ No Recovery	SPT (N)	Grab Sample]Split-Pe		
BACK	FILL TYPE Be	entonite	Pea Gravel	Drill Cuttings	Grout		Slough	Sand	
Depth (m)	PLASTIC M.C. LIQ	(kPa) ■ W S S S S S S S S S S S S S S S S S S		SOIL DESCRIPTIO	N	SAMPLE TYPE SAMPLE NO	SPT (N)	COMMENTS	Depth (m)
17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK, GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK, GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK, GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED)			TEST HOLE TERM NOTES: - No sloughing or shole remained oped drilling. Test hole v	MINATED AT 3.1m BELC seepage was encountere in to 3.1m and was dry u was backfilled with auger	organics, moist, dark astic, moist, stiff, dark ions below 0.6m OW EXISTING GRADE d during drilling. Test	1 2 3 4 5 6 7 8 8		ETION DEPTH: 3.1 m	
17188 - TE	<u>mec[©]</u>	AMEC	Environment & Info Winnipeg, Manito	rastructure REV	/IEWED BY: RB			ETION DATE: July 11, 2013	1 of 1

PRO	JECT: Prairie Industrial Pa	ark		DRILLED BY: Maple	DRILLED BY: Maple Leaf Drilling Ltd.			BORE HOLE NO: RD07		
CLIE	NT: Terracon Developmen	nts		DRILL TYPE: Track N	Nounted DR150		PROJ	JECT NO: WX17188		
	ATION: Winnipeg, Manitob	ра		DRILL METHOD: 125	mm Solid Stem Auger			ATION:		
SAM	PLE TYPE She	by Tube		No Recovery SPT (N)	Grab Sam		∭Split-Po			
BAC		tonite		Pea Gravel Drill Cutting	gs Grout	[Slough	Sand	,	
Depth (m)	▲ UNCONFINED COMPRESSION (100 200 300 40 ■ POCKET PENETROMETER (kF 100 200 300 40 PLASTIC M.C. LIQUI 20 40 60 86	SOIL SYMBOL	MUSCS	SOIL DESCRIP	TION	SAMPLE TYPE	SAMPLE NO SPT (N)	COMMENTS	Depth (m)	
_ 0 			OR OH	SURFACE ORGANICS (Moss) - ~25i ORGANIC CLAY - silty, trace rootlets grey CLAY - silty, trace rootlets to 0.3m, hi grey - dark greyish brown below 0.6m - brown, occasional sulphate inclusio - firm below 2.1m	and organics, moist, dar		1 2 3 4 5 6 6 7		- - - - - - - - - - - - - - - - - - -	
-3 3 			СН	- occasional to frequent sulphate incl	usions at 3.1m		8		- - - - - - - - - - - - - - - - - - -	
:15 AM (GEOTECHNICAL REVISED)				- occasional sulphate inclusions belo	w 4.6m		9		4 	
- TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL				TEST HOLE TERMINATED AT 6.1m NOTES: - No sloughing or seepage was encount hole remained open to 6.1m and was drilling. Test hole was backfilled with	untered during drilling. Te dry upon completion of	NDE est	10			
TER	^	ДМЕ	CF	nvironment & Infrastructure	LOGGED BY: AL			LETION DEPTH: 6.1 m		
17188 -				Winnipeg, Manitoba	REVIEWED BY: RB		COMPL	LETION DATE: July 11, 2013	1 -5 4	
1	dilec Winnipe			· -	Figure No. 19		1	Page	1 of 1	

PROJ	IECT: Prairie Industri	ial Park	DRILLED BY: Ma	DRILLED BY: Maple Leaf Drilling Ltd.			BORE HOLE NO: RD08		
CLIEN	NT: Terracon Develo	pments	DRILL TYPE: Tra	ack Mounted DR150		PROJE	ECT NO: WX17188		
LOCA	TION: Winnipeg, Ma	anitoba	DRILL METHOD:	125mm Solid Stem Augers		ELEVA	ATION:		
SAMP	PLE TYPE	Shelby Tube	✓ No Recovery SPT	<u> </u>		Split-Pe			
BACK	FILL TYPE	Bentonite	Pea Gravel Drill (Cuttings Grout		Slough	Sand		
Depth (m)	■ UNCONFINED COMPRES 100 200 300 ■ POCKET PENETROMET 100 200 300 PLASTIC M.C. 20 40 60			OIL RIPTION	SAMPLE TYPE	SPT (N)	COMMENTS #	Deptn (m)	
17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED)			NOTES: - No sloughing or seepage was hole remained open to 3.1m and drilling. Test hole was backfilled.	rootlets and organics, moist, dark rootlets to 0.3m, high plastic, and brown thick at 1.8m 3.1m BELOW EXISTING GRADE encountered during drilling. Test d was dry upon completion of with auger cuttings and bentonite			-1 -2 -3 -5 -7		
17188 - TE	mec	AMEC	Environment & Infrastructure Winnipeg, Manitoba	REVIEWED BY: RB Figure No. 20			ETION DEPTH. 3.1 m ETION DATE: July 11, 2013 Page 1 o	 of 1	

PROJECT: Prairie Ind	ustrial Park	D	DRILLED BY: Maple Leaf Drilling Ltd.			BORE HOLE NO: RD09		
CLIENT: Terracon De	velopments	D	RILL TYPE: Track Mo	ounted DR150			ECT NO: WX17188	
LOCATION: Winnipeg			RILL METHOD: 125m			1	ATION:	
SAMPLE TYPE	Shelby Tube	No Recovery		Grab Sample		Split-Pe		
BACKFILL TYPE	Bentonite	Pea Gravel	Drill Cuttings	Grout		Slough	Sand	1
© PLASTIC M.C	300 400 ROMETER (kPa) ■ 300 400	MOSCS	SOIL DESCRIPT		SAMPLE TYPE	SPT (N)	COMMENTS	Depth (m)
4 CEONIFACE INDUSTRIAL PARK (GP.15 AM (GEOTECHNICAL REVISED)		ORGANIC CL grey CLAY - silty, tr grey to grey, fr - soft to firm, grey to firm, occase - firm, mottled - soft to firm, comment - brown, occase - firm, mottled - greyish brow - soft to firm, comment - brown, occase - firm, mottled	dark greyish brown below 3.1m greyish brown below 0.6m t silt lenses ~25mm thick sional oxidation inclusion: grey and brown below 2.5mm below 3.1m dark greyish brown below 2.5mm g or seepage was encound open to 6.1mm and was designed to 6.1mm g or seepage was encound open to 6.1mm and was designed to 6.1mm and was design	nd organics, moist, dark n plastic, moist, firm, light n thick below 0.9m s below 1.2m 1m 5.9m ELOW EXISTING GRADE tered during drilling. Test		3		
amec	AME	Environment & Winnipeg, Ma	Intrastructure	LOGGED BY: AL REVIEWED BY: RB Figure No. 21			LETION DEPTH: 6.1 m LETION DATE: July 11, 2013 Page	1 of 1

PROJ	JECT: Prairie Industrial P	ark		DRILLED BY: Maple I				BORE HOLE NO: RD10		
CLIEN	NT: Terracon Developme	ents		DRILL TYPE: Track N	Nounted DR150		PROJ	ECT NO: WX17188		
LOCA	ATION: Winnipeg, Manito	ba		DRILL METHOD: 125	mm Solid Stem Augers		ELEV	ATION:		
SAMP	PLE TYPE She	elby Tube		✓ No Recovery SPT (N)	Grab Sample		Split-Pe			
BACK	KFILL TYPE Ber	ntonite		Pea Gravel Drill Cutting	gs Grout		Slough	<u>∵</u> Sand		
Depth (m)	POCKET PENETROMETER (k 100 200 300 4l PLASTIC M.C. LIQU	Pa)	MUSCS	SOIL DESCRIP	TION	SAMPLE TYPE	SPT (N)	COMMENTS &	Deptin (m)	
17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK, GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK, GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK, GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED)			OCH ML CH	SURFACE ORGANICS (Moss) - ~25r ORGANIC CLAY - silty, trace rootlets grey CLAY - silty, trace rootlets to 0.3m, hi greyish brown, occasional oxidation in - stiff below 0.9m - firm to stiff, frequent silt inclusions b SILT - trace clay, low plastic, very mo CLAY - silty, high plastic, moist, firm to - firm, brownish grey below 2.9m TEST HOLE TERMINATED AT 3.1m NOTES: - No sloughing was encountered during was observed below 1.7m below grace remained open to 3.1m and water levelow grade upon completion of drilling with auger cuttings and bentonite.	and organics, moist, dark gh plastic, moist, firm, nclusions elow 1.1m ist to wet, soft, tan-brown o stiff, greyish brown BELOW EXISTING GRADE ng drilling. Slight seepage le during drilling. Test hole el was measured at 1.7m			-1 -2 -3 -5 -6		
17188 - TERI	mec	AME		nvironment & Infrastructure Winnipeg, Manitoba	LOGGED BY: AL REVIEWED BY: RB Figure No. 22	. '		ETION DEPTH: 3.1 m ETION DATE: July 11, 2013 Page 1 o	 of 1	

PROJ	ECT: Prairie Industrial Pa	rk	D	DRILLED BY: Maple Leaf Drilling Ltd.			BORE	BORE HOLE NO: RD11		
CLIEN	IT: Terracon Developmen	ts		RILL TYPE: Track Mo			PROJ	ECT NO: WX17188		
	TION: Winnipeg, Manitob	а			nm Solid Stem Augers			ATION:		
	_	y Tube	No Recovery	SPT (N)	Grab Sample		Split-Pe			
BACK	FILL TYPE Bento		Pea Gravel	Drill Cuttings	Grout	1 1	Slough	Sand	1	
Depth (m)	■ UNCONFINED COMPRESSION (k 100 200 300 400 ■ POCKET PENETROMETER (kPx 100 200 300 400 PLASTIC M.C. LIQUIE 20 40 60 80	L SYMBOL		SOIL DESCRIPT	ΓΙΟΝ	SAMPLE TYPE	SAMPLE NO SPT (N)	COMMENTS	Depth (m)	
100S1RAF FARX. 6FJ 1308/24 09: 19 AM (GEOTECHNICAL REVISED) 1			ORGANIC CL grey CLAY - silty, to brown - brown below - stiff below 0. - occasional of SILT - trace of occasional sul - very moist to CLAY - silty, h silt inclusions - firm, greyish TEST HOLE T NOTES: - No sloughing was observed remained oper below grade u	race organics, high plast 0.6m 9m xidation below 1.2m ay, low plastic, moist, so phate and oxidation incli wet, soft below 1.8m igh plastic, moist, firm to brown below 3.1m TERMINATED AT 6.1m E g was encountered during below 1.8m below grade in to 6.1m and water leve pon completion of drilling	and organics, moist, dark ic, moist, firm, greyish ft to firm, tan-brown,		1 2 3 4 5 6 7 8 8 9 10 10		-1-23	
			mar dager out	tings and bentonite.					-	
		A 2450		Information of the	LOGGED BY: AL		COMPL	ETION DEPTH: 6.1 m		
	amec AMEC Envir				REVIEWED BY: RB			ETION DATE: July 11, 2013		
			Winnipeg, Ma	iiiUua	Figure No. 23			Pag	e 1 of 1	

PROJ	IECT: Prairie Industrial Pa	ark		DRILLED BY: Maple I	DRILLED BY: Maple Leaf Drilling Ltd.			BORE HOLE NO: RD12		
CLIEN	NT: Terracon Developme	nts		DRILL TYPE: Track N	Nounted DR150		PROJ	ECT NO: WX17188		
LOCA	TION: Winnipeg, Manitol	ра		DRILL METHOD: 125	mm Solid Stem Augers		ELEV	ATION:		
SAMP	PLE TYPE She	lby Tube		✓ No Recovery SPT (N)	Grab Sample		∏Split-Pe			
BACK	FILL TYPE Ben	tonite		Pea Gravel Drill Cutting	gs Grout		Slough	<u>::</u> Sand		
Depth (m)	■ UNCONFINED COMPRESSION (100 200 300 40 ■ POCKET PENETROMETER (kF 100 200 300 40 PLASTIC M.C. LIQUI 20 40 60 80	SOIL SYMBOL	MUSCS	SOIL DESCRIP	TION	SAMPLE TYPE	SPT (N)	COMMENTS	Depth (m)	
17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK,GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK,GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK,GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK,GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED)			CH ML CH	SURFACE ORGANICS (Moss) - ~25r ORGANIC CLAY - silty, trace rootlets grey CLAY - silty, trace organics and rootle moist, firm, greyish brown - firm to stiff below 0.9m - stiff, brown below 1.2m - occasional sulphate and oxidation in - occasional to frequent oxidation and SILT - trace clay, low plastic, very modeline trace of the company of the compan	and organics, moist, dark ets to 0.3m, high plastic, nclusions below 1.5m I silt inclusions below 1.8m ist to wet, soft, tan-brown brown to tan, frequent silt BELOW EXISTING GRADE ng drilling. Slight seepage de during drilling. Test hole el was measured at 2.9m ng. Test hole was backfilled		1 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9			
17188 - TE.	mec	AME		nvironment & Infrastructure Vinnipeg, Manitoba	LOGGED BY: AL REVIEWED BY: RB Figure No. 24			ETION DEPTH: 3.1 m ETION DATE: July 11, 2013 Page	1 of 1	

PROJEC	CT: Prairie Industrial Pa	ark		DRILLED BY: Maple L	DRILLED BY: Maple Leaf Drilling Ltd.			BORE HOLE NO: RD13		
CLIENT:	: Terracon Developme	nts		DRILL TYPE: Track M	ounted DR150		PROJ	IECT NO: WX17188		
LOCATION	ON: Winnipeg, Manitol	ра		DRILL METHOD: 125	mm Solid Stem Augers		ELEV	ATION:		
SAMPLE	E TYPE She	lby Tube		☑ No Recovery ☑ SPT (N)	Grab Sample		∏Split-Pe			
BACKFIL	LL TYPE Ben	tonite		Pea Gravel Drill Cutting	s Grout		Slough	Sand		
- 1	NUNCONFINED COMPRESSION (100 200 300 40 ■ POCKET PENETROMETER (kF 100 200 300 40 PLASTIC M.C. LIQUI 20 40 60 88	SOIL SYMBOL	MUSCS	SOIL DESCRIP		SAMPLE TYPE	SAMPLE NO SPT (N)	COMMENTS	Depth (m)	
TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 8 1			OH CH	SURFACE ORGANICS (Moss) - ~25m ORGANIC CLAY - silty, trace rootlets grey CLAY - silty, trace organic to 0.3m, hig dark grey - mottled grey and brown below 0.6m - stiff, brown below 0.9m - occasional oxidation and sulphate in - firm below 1.8m SILT - trace clay, low plastic, moist to CLAY - silty, high plastic, moist, firm to occasional silt inclusions TEST HOLE TERMINATED AT 6.1m In NOTES: - Very slight sloughing was encounter during drilling. Moderate seepage was below grade during drilling. Test hole water level was measured at 3.1m bel of drilling. Test hole was backfilled wit bentonite.	clusions below 1.5m SELOW EXISTING GRADE ed below 2.4m below grade closerved below 2.4m emained open to 5.8m and ow grade upon completion		1		-1-1-2-3	
17188 - TERRAC	mec	AME		nvironment & Infrastructure Winnipeg, Manitoba	LOGGED BY: AL REVIEWED BY: RB Figure No. 25			ETION DEPTH: 6.1 m ETION DATE: July 11, 2013 Page	+ e 1 of 1	

PROJ	IECT: Prairie Indus	strial Park		DRILLED BY: Maple I	DRILLED BY: Maple Leaf Drilling Ltd.			BORE HOLE NO: RD14		
CLIEN	NT: Terracon Deve	elopments		DRILL TYPE: Track M	Nounted DR150		PROJ	ECT NO: WX17188		
LOCA	TION: Winnipeg,	Manitoba		DRILL METHOD: 125	mm Solid Stem Augers		ELEV	ATION:		
SAMP	PLE TYPE	Shelby Tube		✓ No Recovery ✓ SPT (N)	Grab Sample		Split-Pe			
BACK	FILL TYPE	Bentonite		Pea Gravel Drill Cutting	gs Grout		Slough	Sand		
Depth (m)	■POCKET PENETROI 100 200 3 PLASTIC M.C.	500 400	MUSCS	SOIL DESCRIP		SAMPLE TYPE	SPT (N)	COMMENTS	Depth (m)	
17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED)			CH CH	SURFACE ORGANICS (Moss) - ~25r ORGANIC CLAY - silty, trace rootlets grey CLAY - silty, trace organics and rootle moist, firm, grey to dark grey - greyish brown, occasional oxidation - firm to stiff below 0.9m - stiff below 1.2m - brown below 1.5m SILT - some clay, low to medium plas CLAY - silty, high plastic, moist, stiff, and oxidation inclusions - firm to stiff, greyish brown below 2.7 TEST HOLE TERMINATED AT 3.1m NOTES: - No sloughing or seepage was encountly remained open to 3.1m and was drilling. Test hole was backfilled with a silting or seepage.	and organics, moist, dark ets to 0.3m, high plastic, inclusions below 0.6m etic, moist, firm, tan-brown tan-brown, occasional silt m BELOW EXISTING GRADE untered during drilling. Test dry upon completion of		3	ETION DEPTH: 3.1 m	1	
17188 - T	mec	AM		nvironment & Infrastructure Winnipeg, Manitoba	REVIEWED BY: RB Figure No. 26			ETION DET 111: 3.1111 ETION DATE: July 11, 2013 Page 1	of 1	

PROJ	JECT: Prairie Industrial Pa	ark		DRILLED BY: Maple L	DRILLED BY: Maple Leaf Drilling Ltd.			BORE HOLE NO: RD15		
CLIEN	NT: Terracon Developmer	nts		DRILL TYPE: Track M	lounted DR150		PROJ	ECT NO: WX17188		
LOCA	ATION: Winnipeg, Manitob	ра		DRILL METHOD: 125	mm Solid Stem Augers		ELEV	ATION:		
SAMF	PLE TYPE Shel	lby Tube		✓ No Recovery SPT (N)	Grab Sample		Split-Pe			
BACK	FILL TYPE Bent	tonite		Pea Gravel Drill Cutting	s Grout		Slough	Sand		
Depth (m)	▲ UNCONFINED COMPRESSION (I 100 200 300 40) ■ POCKET PENETROMETER (kF 100 200 300 40) PLASTIC M.C. LIQUII 20 40 60 80	TORWAS NOS	MUSCS	SOIL DESCRIP		SAMPLE TYPE	SPT (N)	COMMENTS	Depth (m)	
OTECHNICAL REVISED)			CH CH	SURFACE ORGANICS (Moss) - ~25r ORGANIC CLAY - silty, trace rootlets grey CLAY - silty, trace organics and rootle moist, stiff, grey to dark grey - greyish brown, occasional oxidation SILT - some clay, low plastic, moist, fi CLAY - silty, high plastic, moist, stiff, ginclusions - stiff to very stiff below 1.8m - firm to stiff, dark greyish brown below - abundant silt lenses ~20mm thick, m	and organics, moist, dark ets to 0.3m, high plastic, inclusions below 0.9m rm, tan-brown greyish brown, occasional silt	1 1 2 2 3 3 4 4 4 5 5 6 6 6 7 7 7 7 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9				
- TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL)				- grey to dark grey below 5.9m TEST HOLE TERMINATED AT 6.1m NOTES: - No sloughing or seepage was encoun hole remained open to 6.1m and was drilling. Test hole was backfilled with a	intered during drilling. Test dry upon completion of auger cuttings and bentonite.	1		ETION DEDTH: 6.1 m	-5 -	
"		AMI		nvironment & Infrastructure	LOGGED BY: AL REVIEWED BY: RB			ETION DEPTH: 6.1 m ETION DATE: July 11, 2013		
17188	<u>mec[©]</u>			Winnipeg, Manitoba	Figure No. 27		OOIVII"L	•	1 of 1	

PROJ	IECT: Prairie Industrial Pa	ark		DRILLED BY: Maple I				BORE HOLE NO: RD16		
CLIEN	NT: Terracon Developmer	nts		DRILL TYPE: Track M	Nounted DR150		PROJ	ECT NO: WX17188		
LOCA	ATION: Winnipeg, Manitob	oa		DRILL METHOD: 125	mm Solid Stem Augers		ELEV	ATION:		
SAMP	PLE TYPE Shell	by Tube		☑ No Recovery ☑ SPT (N)	Grab Sample		∏Split-Pe			
BACK	(FILL TYPE Bent	tonite		Pea Gravel Drill Cutting	gs Grout		Slough	<u>:::</u> Sand		
Depth (m)	■ POCKET PENETROMETER (kF 100 200 300 40) ■ POCKET PENETROMETER (kF 100 200 300 40) PLASTIC M.C. LIQUII 20 40 60 80	TORWAS NOS	MUSCS	SOIL DESCRIP	TION	SAMPLE TYPE	SPT (N)	COMMENTS	Depth (m)	
17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED)			OR OH CH	SURFACE ORGANICS (Moss) - ~25r ORGANIC CLAY - silty, trace rootlets grey CLAY - silty, trace sand, high plastic, tan and grey, frequent silt inclusions SILT - clayey, low to medium plastic, CLAY - silty, high plastic, moist, stiff, inclusions - occasional silt inclusions below 1.2n - frequent silt lenses ~5mm thick at 1 brown, occasional oxidation inclusion - firm, greyish brown below 2.9m TEST HOLE TERMINATED AT 3.1m NOTES: - No sloughing or seepage was encountly remained open to 3.1m and was drilling. Test hole was backfilled with a silt inclusion.	and organics, moist, dark moist, soft to firm, mottled moist, soft to firm, tan-brown greyish brown, frequent silt n .5m ns below 1.8m BELOW EXISTING GRADE untered during drilling. Test dry upon completion of		1 2 2 3 3 4 4 5 5 5 5 7 7 3 3 3 4 4 4 5 5 6 6 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
17188 - TER	mec	AMI		nvironment & Infrastructure Winnipeg, Manitoba	LOGGED BY: AL REVIEWED BY: RB Figure No. 28			ETION DEPTH: 3.1 m ETION DATE: July 11, 2013 Page	1 of 1	

PROJE	ECT: Prairie Industrial Pa	ark		DRILLED BY: Maple I				BORE HOLE NO: RD17		
CLIEN	T: Terracon Developmer	nts		DRILL TYPE: Track M	Nounted DR150			DJECT NO: WX17188		
	TION: Winnipeg, Manitob				mm Solid Stem Augers			VATION:		
	<u>=</u>	by Tube		No Recovery SPT (N)	Grab Sample		Split-			
BACKE		tonite		Pea Gravel Drill Cutting	s Grout	1 1	Slou	gh 🚉 Sand	1	
Depth (m)	▲ UNCONFINED COMPRESSION (I 100 200 300 40 40 40 40 40 40 40 40 40 40 40 40 4	SOIL SYMBOL	MUSCS	SOIL DESCRIP	TION	SAMPLE TYPE	SAMPLE NO	COMMENTS	Depth (m)	
17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED)			OR OH	SURFACE ORGANICS (Moss) - ~25r ORGANIC CLAY - silty, trace rootlets grey CLAY - silty, trace organics lenses ~5 plastic, moist, firm to stiff, mottled bro - some organics at 0.6m - stiff, brown below 0.9m - greyish brown below 1.2m - occasional sulphate inclusions below - firm, dark greyish brown below 3.1m NOTES: - No sloughing or seepage was encountly holder remained open to 6.1m and was drilling. Test hole was backfilled with a drilling. Test hole was backfilled with a series of the	and organics, moist, dark imm thick to 0.3m, high wn to dark grey v 1.8m BELOW EXISTING GRAD		1 2 3 4 5 6 7 8 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10			
17188 - TERRA ©	mec	AME		nvironment & Infrastructure Winnipeg, Manitoba	LOGGED BY: AL REVIEWED BY: RB Figure No. 29			PLETION DEPTH: 6.1 m PLETION DATE: July 11, 2013 Page	1 of 1	

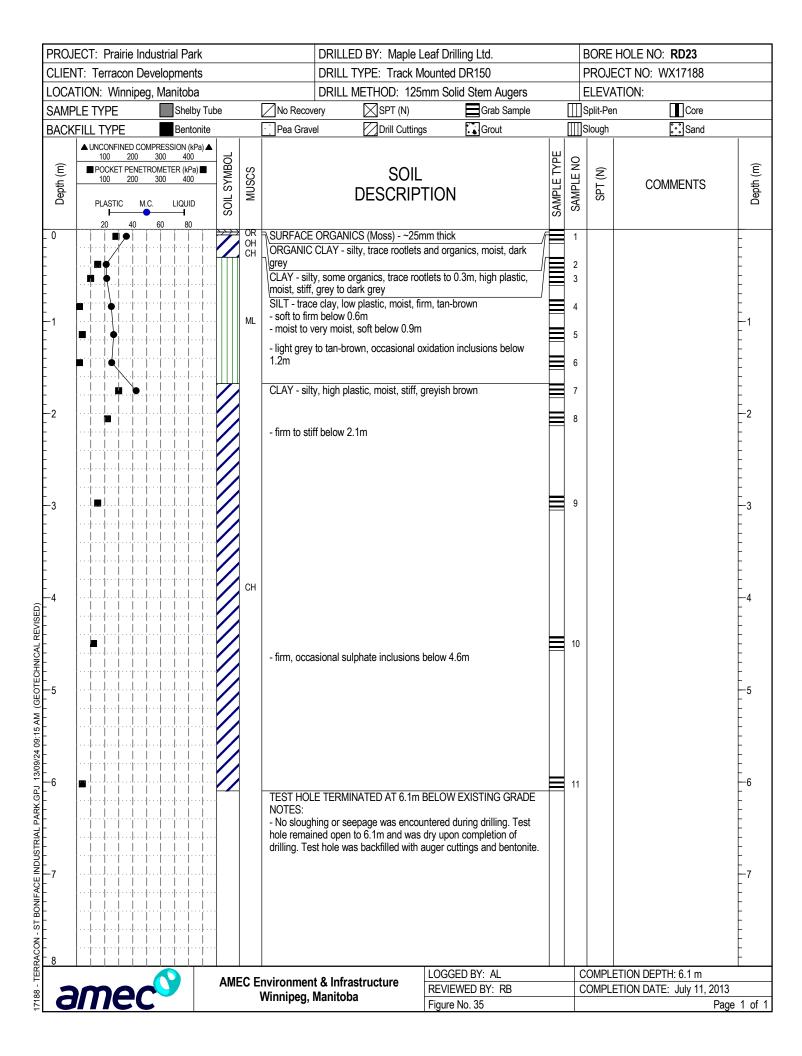
PROJ	IECT: Prairie Industrial	Park		DRILLED BY: Maple L	eaf Drilling Ltd.		BORE	HOLE NO: RD18
CLIEN	NT: Terracon Developm	nents		DRILL TYPE: Track M	lounted DR150		PROJ	ECT NO: WX17188
LOCA	ATION: Winnipeg, Manit	toba		DRILL METHOD: 125	mm Solid Stem Augers		ELEV	ATION:
SAMP	PLE TYPE S	helby Tube		✓ No Recovery SPT (N)	Grab Sample		Split-Pe	
BACK	(FILL TYPE	entonite	[Pea Gravel Drill Cutting	s Grout		Slough	Sand
Depth (m)	■ POCKET PENETROMETER 100 200 300	400	MUSCS	SOIL DESCRIP		SAMPLE TYPE	SPT (N)	COMMENTS (E)
17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED)			OR E	SURFACE ORGANICS (Moss) - ~25r ORGANIC CLAY - silty, trace rootlets grey CLAY - silty, trace organics to 0.3m, r stiff, grey to dark grey - brown, occasional oxidation inclusio - stiff below 0.9m - very stiff, occasional to frequent oxid - mottled tan and brown, occasional to oxidation inclusions below 1.8m SILT - trace clay, low plastic, moist, st occasional oxidation inclusions CLAY - silty, high plastic, moist, stiff, g TEST HOLE TERMINATED AT 3.1m NOTES: - No sloughing was encountered durir was observed below 1.7m below grad remained open to 3.1m and water lev below grade upon completion of drillir with auger cuttings and bentonite.	and organics, moist, dark high plastic, moist, firm to his below 0.6m dation inclusions below 1.5m his frequent sulphate and hoft to firm, tan-brown, greyish brown BELOW EXISTING GRADE high drilling. Slight seepage le during drilling. Test hole le was measured at 1.7m		22	= -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
17188 - 1	mec [©]	AME		vironment & Infrastructure Vinnipeg, Manitoba	REVIEWED BY: RB Figure No. 30			ETION DATE: July 11, 2013 Page 1 of

PRO	JECT: Prairie Industrial Pa	ark		DRILLED BY: Maple I	·				BORE HOLE NO: RD19		
CLIE	NT: Terracon Developmen	nts		DRILL TYPE: Track N	Nounted DR150		PRO	JECT NO: WX17188			
	ATION: Winnipeg, Manitob	oa		DRILL METHOD: 125	mm Solid Stem Auge			/ATION:			
SAM	PLE TYPE Shell	by Tube		✓ No Recovery SPT (N)	Grab Sam		Split-F				
BAC		tonite	_[Pea Gravel Drill Cutting	gs Grout		Slough	n Sand	1		
Depth (m)	■ UNCONFINED COMPRESSION (I 100 200 300 40) ■ POCKET PENETROMETER (kF 100 200 300 40) PLASTIC M.C. LIQUI 20 40 60 80	SOIL SYMBOL	MUSCS	SOIL DESCRIP	TION	SAMPLE TYPE	SAMPLE NO SPT (N)	COMMENTS	Depth (m)		
_ 0 - - - - - - - - 1 - - - - - - - - - -			OR E	SURFACE ORGANICS (Moss) - ~25i ORGANIC CLAY - silty, trace rootlets grey CLAY - silty, some organics to 0.3m, grey to brown - stiff, greyish brown below 0.6m - brown below 1.2m - brown to light brown, occasional silt	and organics, moist, da		1 2 3 4 5 6		- - - - - - - - - - - - - - - - - - -		
2 2 							7		2 		
REVISED)			CH	- firm, greyish brown below 3.1m					- - - - - - - - - - - - - - - - - - -		
13/09/24 09:15 AM (GEOTECHNICAL 				- grey, occasional sulphate inclusions	s below 4.6m		9		- - - - - - - - - - - - - - - - - - -		
- TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL				TEST HOLE TERMINATED AT 6.1m NOTES: - No sloughing or seepage was encound hole remained open to 6.1m and was drilling. Test hole was backfilled with	untered during drilling. T dry upon completion of auger cuttings and bent	est	10		6 		
TER		AME	C Er	nvironment & Infrastructure	LOGGED BY: AL			LETION DEPTH: 6.1 m			
17188 -	emec [©]			Vinnipeg, Manitoba	REVIEWED BY: RB Figure No. 31		COMP	LETION DATE: July 11, 2013	1 of 1		
		1			1		1	i ago			

PROJ	ROJECT: Prairie Industrial Park						DRIL	·			BORE HOLE NO: RD20			
CLIEN	NT: Terrac	on Deve	elopme	ents			DRIL	L TYPE: Track N	Nounted DR15	0		PRO	JECT NO: WX17188	
LOCA	TION: Wi	nnipeg, l	Manito	ba			DRIL	L METHOD: 125				ELEV	'ATION:	
SAMP	PLE TYPE		She	elby Tu	ıbe		No Recovery	SPT (N)		Grab Sample		∏Split-P		
BACK	FILL TYPE	Ē	Ber	ntonite			Pea Gravel	Drill Cutting	gs 🖫 (Grout	\Box	Slough	Sand	
Depth (m)	▲UNCONFIN 100 ■ POCKET 100 PLASTIC 1-20	200 3 PENETROI 200 3	800 41 METER (k 800 41 LIQU	00 :Pa) ■ 00	SOIL SYMBOL	MUSCS		SOIL DESCRIP			SAMPLE TYPE	SPT (N)	COMMENTS	Depth (m)
17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED)						CH CH	ORGANIC CLAY grey CLAY - silty, trace greyish brown, occasional rootl - brown, occasion - occasional to free 1.7m - firm below 2.7m TEST HOLE TER NOTES: - No sloughing or hole remained op drilling. Test hole	al sulphate and oxicequent silt lenses ~1	and organics, r nigh plastic, mo nclusions dation inclusions Omm thick betw BELOW EXIST untered during of	ist, stiff, s below 1.5m ween 1.5m to ING GRADE drilling. Test letion of and bentonite.		7	Hydrometer Analysis Results @ "1.1m": Gravel= 0.0% Sand= 0.5% Silt= 16.5% Clay= 83.0%	-1 -1 -2 -3 -4 1 5 6
17188 - T	AMEC Environme Winnipeg				nvironment & In Winnipeg, Manit		REVIEWED E	SY: RB			LETION DATE: July 11, 2013	e 1 of 1		

PROJI	ECT: Prairie Industrial Pa	ark		DRILLED BY: Maple L	DRILLED BY: Maple Leaf Drilling Ltd.			BORE HOLE NO: RD21		
	IT: Terracon Developmer			DRILL TYPE: Track M	lounted DR150			ECT NO: WX17188		
	TION: Winnipeg, Manitob				mm Solid Stem Augers	_	_	ATION:		
	_	lby Tube		No Recovery SPT (N)	Grab Sample		Split-Pe			
BACK		tonite		Pea Gravel Drill Cutting	s Grout		Slough	:: Sand	1	
Depth (m)	■ UNCONFINED COMPRESSION (I 100 200 300 40	SOIL SYMB(MUSCS	SOIL DESCRIP	TION	SAMPLE TYPE	SAMPLE NO SPT (N)	COMMENTS	Depth (m)	
17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED)			OR OH	SURFACE ORGANICS (Moss) - ~25r ORGANIC CLAY - silty, trace rootlets grey CLAY - silty, trace organics to 0.3m, here to grey, occasional oxidation inclocasional silt inclusions below 0.6m - greyish brown below 0.9m - brown below 1.5m TEST HOLE TERMINATED AT 6.1m NOTES: - No sloughing or seepage was encountly remained open to 6.1m and was drilling. Test hole was backfilled with a drilling. Test hole was backfilled with a series of the series of t	and organics, moist, dark iigh plastic, moist, stiff, dark usions BELOW EXISTING GRADE intered during drilling. Test dry upon completion of		1 2 3 4 5 6 6 7 8 8 9 9			
17188 - TERRA	mec	AME		│ nvironment & Infrastructure Winnipeg, Manitoba	LOGGED BY: AL REVIEWED BY: RB Figure No. 33			LETION DEPTH: 6.1 m LETION DATE: July 11, 2013 Page	e 1 of 1	

	PROJECT: Prairie Industrial Park									DRILLED BY: Maple Leaf Drilling Ltd.					BORE HOLE NO: RD22			
	CLIEN	IT: Terracon	Deve	lopme	ents					DRILL	TYPE: Track	Mounted	DR150			PROJ	ECT NO: WX17188	
	LOCA	TION: Winnip	peg, N	/lanito	ba					DRILL	METHOD: 12	25mm So	lid Stem Augers		I	ELEV	ATION:	
	SAMP	LE TYPE		Sh	elby 1	ube	;		✓ No Recov	ery	SPT (N)		Grab Sample			Split-Pe	n Core	
	BACK	FILL TYPE		Ве	ntonit	е			Pea Grave	el	Drill Cutt	ings	Grout			Slough	Sand	
		▲ UNCONFINED	COMPR 0 30	ESSION	l (kPa). 100	•	_							Ш				
	h (m)	(E) 4100 200 300 400 TO NOT THE PRICE TROMETER (kPa) 100 200 300 400 TO NOT THE PRICE TROMETER (kPa) 100 200 300 400 TO NOT THE PRICE TROMETER (kPa) 100 200 300 400 TO NOT THE PRICE TROMETER (kPa) 100 200 300 400 TO NOT THE PRICE TROMETER (kPa) 100 200 TO NOT THE PRICE TROMETER (kPa) 1							SOIL			SAMPLE TYPE	SAMPLE NO	SPT (N)	COMMENTS	Depth (m)		
	Dept	PLASTIC	M.C.	LIQI	UID		OIL S	MUS			DESCRI	PTION		AMPL	SAMP	SPT	COMMENTS	Dept
	20 40 60 80								ODCAN	IICS (Moos) - C	Emm thick		Š					
	- ^V -		 	 	 			OH	ORGANIC		IICS (Moss) - ~2 silty, trace rootle		anics, moist, dark	$/ \models$	1			-
	- - -				i : : i			011	grey CLAY - silt	y, trace o	organics to 0.3m	n, high plas	tic, moist, stiff, dark	′⊨	2			-
	- - -			 	1			ML		e clay, lo	wn, occasional rootlets and oxidation inclusions e clay, low to medium plastic, moist, firm, mottled grey			′⊨	3			-
	1 - -			l l · · · · · · ·	Jl 				CLAY - silt		lastic, moist, stil	ff, greyish l	greyish brown, occasional silt					<u>-1</u>
	- - -		i	i	<u>.</u>				inclusions									-
	- -		 	 	- 				- stiff to ver	ry stiff be	elow 1.5m				6			-
	- 2		- 1	· · · · · · ·	11										Ů			-2
			 	 	 			CH	- firm to sti	ff below:	2.1m				7			
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	<u>−</u> 3									E TERM	IINATED AT 3.1	m BELOW	EXISTING GRADE		°			_3
					11				NOTES: - No sloual	nina or s	eepage was end	countered o	during drilling. Test					E
	- -			 					hole remain	ned oper	n to 3.1m and wa	as dry upo	n completion of ttings and bentonite.					-
	_				1				drilling. 16.	St HOIC W	as backilled wil	in auger co	ittings and bentonite.					Ė
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88		MA				,	HIVIE		nvironmen Vinnipeg, l		astructure ha		WED BY: RB		COMPLETION DATE: July 11, 2013			
171	AMEC Environment Winnipeg,						rriiiipeg,	mai III		Figure	No. 34				Page	1 of 1		



PROJ	IECT: Prairie Industria	l Park	DRILLED BY: Maple I	DRILLED BY: Maple Leaf Drilling Ltd.				
CLIEN	NT: Terracon Developr	ments	DRILL TYPE: Track N	Nounted DR150	PROJECT NO: WX17188			
	ATION: Winnipeg, Man	nitoba		mm Solid Stem Augers	ELEVATION:			
	<u>=</u>	Shelby Tube	No Recovery SPT (N)	Grab Sample	Split-Pen Core			
BACK		Bentonite	Pea Gravel Drill Cutting	gs Grout	Slough Sand			
Depth (m)	■ UNCONFINED COMPRESSI 100 200 300 ■ POCKET PENETROMETEI 100 200 300 PLASTIC M.C. L 20 40 60		SOIL DESCRIP	TION	SPT (N) SPT (N) COMMENTS			
17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK GPU 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 8		CH CH	SURFACE ORGANICS (Moss) - ~25i CLAY - silty, high plastic, moist, stiff, - greyish brown, occasional sulphate SILT - trace clay, low plastic, moist to CLAY - silty, high plastic, moist, stiff, sulphate and silt inclusions - very stiff, brown below 1.8m - stiff, frequent silt lenses ~25mm thi - grey below 2.9m TEST HOLE TERMINATED AT 3.1m NOTES: - No sloughing was encountered duris seepage was observed below 1.4m b Test hole remained open to 3.1m and drilling. Test hole was backfilled with	inclusions below 0.9m very moist, soft, tan-brown greyish brown, occasional ck between 2.1m and 2.3m BELOW EXISTING GRADE ng drilling. Very slight elow grade during drilling. I was dry upon completion of	1			
RACON - ST BONIFACE								
AH -		1 1 1 1 1 1		LOGGED BY: AL	COMPLETION DEPTH: 3.1 m			
- 88	mec	AMEC E	invironment & Infrastructure Winnipeg, Manitoba	REVIEWED BY: RB	COMPLETION DATE: July 12, 2013			
171	リリてし		winnipey, maintoba	Figure No. 36	Page 1 of			

PRO	JECT: Prairie Industrial Pa	ark		DRILLED BY: Maple I	DRILLED BY: Maple Leaf Drilling Ltd.				BORE HOLE NO: RD25			
CLIE	NT: Terracon Developmen	nts		DRILL TYPE: Track N	Nounted DR150		PRO	PROJECT NO: WX17188				
LOC	ATION: Winnipeg, Manitob	ра		DRILL METHOD: 125	mm Solid Stem Au	ugers	ELEV	'ATION:				
SAM	PLE TYPE She	by Tube		✓ No Recovery SPT (N)	Grab S		∭Split-P					
BAC		tonite	[Pea Gravel Drill Cutting	s Grout	[Slough	Sand				
Depth (m)	▲ UNCONFINED COMPRESSION (100 200 300 40 ■ POCKET PENETROMETER (kF 100 200 300 40 PLASTIC M.C. LIQUI 20 40 60 88	SOIL SYMB(MUSCS	SOIL DESCRIP	TION	SAMPLE TYPE	SAMPLE NO SPT (N)	COMMENTS	Depth (m)			
			OR :	SURFACE ORGANICS (Moss) - ~25r ORGANIC CLAY - silty, trace rootlets grey CLAY - silty, trace organics and rootle moist, firm, dark greyish brown - stiff, brown, occasional silt inclusion - firm, greyish brown, occasional oxid	and organics, moist ets to 0.3m, high plas s below 0.6m	stic,	1 2 3 4 5 6 7 7 8 8					
4 09:15 AM (GEOTECHNICAL REVISED)				- soft to firm below 4.6m			9					
- TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL				TEST HOLE TERMINATED AT 6.1m NOTES: - No sloughing or seepage was encount hole remained open to 6.1m and was drilling. Test hole was backfilled with	untered during drilling dry upon completior	GRADE g. Test n of	10		- 6 			
TER		AM⊑(`F	nvironment & Infrastructure	LOGGED BY: AL	1 1		LETION DEPTH: 6.1 m				
17188 -	emec [©]	AIVIE		Vinnipeg, Manitoba	REVIEWED BY: F	RB	COMP	LETION DATE: July 12, 2013				
<u>+</u>			•	I - 3,	Figure No. 37			Page	1 of 1			

PRO	JECT: Prairie Industrial Pa	ark		DRILLED BY: AMEC				BORE HOLE NO: RD26			
CLIE	NT: Terracon Developme	nts					PROJE	ECT NO: WX17188			
LOC	ATION: Winnipeg, Manitol	ра		DRILL METHOD: Hai	nd Auger		ELEVA	ATION:			
SAM	PLE TYPE She	lby Tube	✓ No Recov	<u> </u>	Grab Sample		Split-Pe				
BAC		tonite	Pea Grav	vel Drill Cutting	gs Grout		Slough	Sand			
Depth (m)	▲ UNCONFINED COMPRESSION (100 200 300 40 ■ POCKET PENETROMETER (kf. 100 200 300 40 PLASTIC M.C. LIQUI 20 40 60 88	Pa)■ OOIT SYMB(NOSCO.	SOIL DESCRIP		SAMPLE TYPE	SPT (N)	COMMENTS	Depth (m)		
17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 8			- frequent - silt lamin - firm belor TEST HOI NOTES: - No sloug hole remai drilling. Te	LE TERMINATED 3.0m BE whing or seepage was encounted open to 3.0m and was set hole was backfilled with	greyish brown, frequent greyish brown ow 1.0m LOW GRADE untered during drilling. Test dry upon completion of auger cuttings.		COMPL	ETION DEPTH: 3 m			
L-88-1	mac	AMEC		nt & Infrastructure	REVIEWED BY: RB			ETION DATE: July 26, 2013			
171	emec [©]		Winnipeg,	Manifolia	Figure No. 38				1 of 1		

PRO	DJECT: Prairie Industrial Pa	ark		DRILLED BY: Maple	DRILLED BY: Maple Leaf Drilling Ltd.					BORE HOLE NO: RD27			
CLIE	ENT: Terracon Developmer	nts		DRILL TYPE: Track	Mounted D	R150		PR	PROJECT NO: WX17188				
	CATION: Winnipeg, Manitob	oa		DRILL METHOD: 12	5mm Solid	Stem Augers			EVATION:				
SAN	MPLE TYPE Shel	by Tube		No Recovery SPT (N)		Grab Sample		Spli					
BAC		tonite	<u> </u>	Pea Gravel Drill Cutting	igs	Grout	[Slou	ugh Sand				
Depth (m)	▲ UNCONFINED COMPRESSION (I 100 200 300 400 100 200 300 400 100 200 300 400 100 200 300 400 100 100 100 100 100 100 100 100 1	SOIL SYMBOL	MUSCS	SOII DESCRIF	PTION		SAMPLE TYPE	SAMPLE NO	COMMENTS	Depth (m)			
- 0 - -			7	SURFACE ORGANICS (Moss) - ~38 CLAY - silty, trace fine grained sand greyish brown		c, moist, very stiff,		1		- - - -			
-				- stiff below 0.9m				3		- - - -			
F'								4		F'			
Ė				- occasional sulphate inclusions belo				5		-			
-			-	- brown, occasional silt inclusions be	low 1.5m			6		-			
-2										-2			
-								7		- - -			
- - - -3 - - -			CH _	- firm, dark greyish brown below 3m				8		-3			
I (GEOTECHNICAL REVISED)			-	- soft to firm below 4.6m				9		-4 4 			
J 13/09/24 09:15 AM			-	- grey below 5.5m				10		- - - - - - - - -			
- TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL)			- c	TEST HOLE TERMINATED AT 6.1n NOTES: No sloughing and seepage encoundrilling. Test hole remained open to completion. Test hole was backfilled	tered upon o 6.10m belov	completion of grade upon				- - - - - - - - - - - - - - - - - - -			
ACON - ST BONIFACE										- - - - - - - -			
ERRA 8				du	LOGGED	BY: AL		CON	MPLETION DEPTH: 6.1 m				
- 88	emec ⁹	AMEC		rironment & Infrastructure innipeg, Manitoba	REVIEW	ED BY: RB			MPLETION DATE: August 2				
17188	<i>カロ</i>		AAI	mmpeg, mamioba	Figure No	o. 39				Page 1 of 1			

PROJ	ECT: Prairie Ir	ndustrial Pa	ırk			DRI	DRILLED BY: AMEC				BORE HOLE NO: RD28			
CLIEN	NT: Terracon D	Developmer	nts							PR	PROJECT NO: WX17188			
LOCA	TION: Winnipe	eg, Manitob	a			DRI	LL METHOD: Han	d Auger		ELE	EVATION:			
SAMF	PLE TYPE	Shell	by Tub	е		No Recovery	SPT (N)	Grab Sample	e	∭Split				
BACK	FILL TYPE	Bent	onite			Pea Gravel	Drill Cuttings	Grout		Slou	gh Sand			
Depth (m)	■ POCKET PENE 100 200 ■ POCKET PENE 100 200 PLASTIC 1 20 40	OMPRESSION (k 300 400 ETROMETER (kP 300 400 M.C. LIQUIE 60 80	(a) = ()	SOIL SYMBOL	MUSCS		SOIL DESCRIP	ΓΙΟΝ	SAMPLE TYPE	SAMPLE NO	COMMENTS	Depth (m)		
17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 8					OR CH	CLAY - silty, hig rootlets - dark grey betwe - brownish grey b - brown below 1. - stiff to very stiff - occasional silt i - firm below 2.9m TEST HOLE TENOTES: - No sloughing on hole remained of drilling. Test hole	een 0.5m and 0.6m pelow 0.6m 2m below 1.5m Inclusions below 1.8m RMINATED 3.0m BEL In seepage was encoupen to 3.0m and was a was backfilled with a	o stiff, brown, frequent		1 2 3 4 5 6 7 8	IPI FTION DEPTH: 3 m			
188 - T	me			AME		nvironment & Ir Winnipeg, Mani		REVIEWED BY: RB			COMPLETION DEPTH: 3 m COMPLETION DATE: July 26, 2013 Page 1 of 1			
#I 🕶								Figure No. 40		1	rage	i Of T		

PROJEC	T: Prairie Industrial Pa	ark		DRILLED BY: Maple L	eaf Drilling Ltd.	BORE HOLE NO: RD29					
CLIENT:	Terracon Developmer	nts		DRILL TYPE: Track M	lounted DR150		PRO	PROJECT NO: WX17188			
LOCATIO	DN: Winnipeg, Manitob	ра		DRILL METHOD: 125			ELEV	ATION:			
SAMPLE	TYPE Shel	by Tube		✓ No Recovery SPT (N)	Grab Sample		∏Split-P				
BACKFIL	L TYPE Bent	tonite		Pea Gravel Drill Cutting	s Grout	[Slough	Sand			
	UNCONFINED COMPRESSION (I 100 200 300 400 100 200 300 400 100 100 100 100 100 100 100 100 1	C SYMBOL	MUSCS	SOIL DESCRIP		SAMPLE TYPE	SAMPLE NO SPT (N)	COMMENTS	Depth (m)		
- TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 8 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED)	20 40 00 00 00 00 00 00 00 00 00 00 00 00		OR CH ML CH ML	SURFACE ORGANICS (Moss) - ~38n CLAY - silty, high plastic, moist, stiff, r frequent lenses approximately 20mm SILT - trace clay, low plastic, moist to tan-brown, occasional oxidation inclus - occasional clay lenses approximatel below 0.9m CLAY - silty, high plastic, moist, stiff, g inclusions SILT - trace clay, low plastic, moist, fil CLAY - silty, high plastic, moist, stiff, g inclusions - firm, occasional sulphate and oxidat TEST HOLE TERMINATED AT 6.1m NOTES: - No sloughing and seepage encounted drilling. Test hole remained open to 6. completion. Test hole was backfilled w	mottled grey and tan, stiff, thick very moist, soft to firm, sions y 15mm thick, soft to firm greyish brown, occasional silt m, tan-brown greyish brown, frequent silt on inclusions below 2.1m BELOW EXISTING GRADE ered upon completion of 10m below grade upon		1 2 3 4 5 6 6 7 8 8 9 9	Hydrometer Analysis Results @ "0.5m": Gravel= 0.0% Sand= 1.6% Silt= 78.5% Clay= 19.9%	-1 -1 -2 -3 -4 5 6		
3 [17188 - TERF	nec®	AME		nvironment & Infrastructure Winnipeg, Manitoba	LOGGED BY: AL REVIEWED BY: RB Figure No. 41			LETION DEPTH: 6.1 m LETION DATE: August 26, 201 Page	13 1 of 1		

PROJ	IECT: Prairie Industrial F	Park						BORE	BORE HOLE NO: RD30			
CLIEN	NT: Terracon Developme	ents						PROJ	PROJECT NO: WX17188			
LOCA	TION: Winnipeg, Manito	oba		DRILL METHO				ELEV	ATION:			
SAMP	PLE TYPE Sh	elby Tube	✓ No Recov		SPT (N)	Grab Sample		∏Split-Pe				
BACK		entonite	Pea Grav	el 🔲 🗆	rill Cuttings	Grout		Slough	Sand			
Depth (m)	PLASTIC M.C. LIQI	(kPa) ■ (MAS) SO (MAS) MAS MAS		DES	SOIL CRIPTIO	N	SAMPLE TYPE	SPT (N)	COMMENTS	Depth (m)		
17188 - TERRACON - ST BONIFACE INDUSTRIAL PARK.GPJ 13/09/24 09:15 AM (GEOTECHNICAL REVISED) 8			CLAY - sil inclusions, - stiff to ve 0.6m - firm, grey SILT - trac CLAY - silf frequent si - frequent : TEST HOL NOTES: - No sloug hole remai	e clay, low plastic y, high plastic, mo It inclusions silt layers (~40mn	oist, firm, brown frequent rootlets at onal rootlets at stiff, damp to robist, stiff to very in thick) below 1 3.0m BELOW Gives encountered and was dry upilled with auger of the stiff to	s between 0.5m and 1m noist, tan-brown stiff, mottled brown, 8m sRADE during drilling. Test on completion of cuttings.		1 2 2 3 3 4 4 5 5 6 6 7 7				
17188 - TEI	<u>mec[®]</u>	AMEC	Environmen Winnipeg,		Intrastructure REVIEWED BY: RB			COMPLETION DEPTH: 3 m COMPLETION DATE: July 26, 2013 Page 1 of				