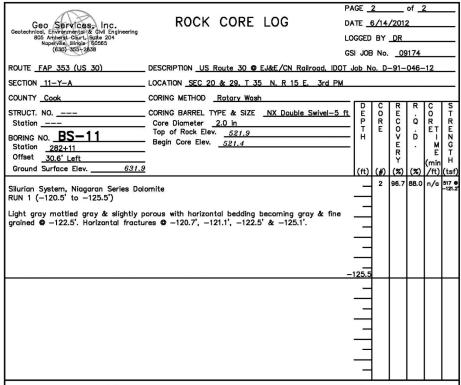
						PAGE 4	of _	4	
Geo Services Inc	5	OIL	LE	OF	RING LOG	DATE _6/13/	/2012		
Geo Services, Inc. Geotechnical, Environmental & Givi Engineering 805 Anherst Court, Salte 204 Naperville, Illinois 60565						LOGGED BY			
Naperville, Illinois 60565 (630) 355-2838						GSI JOB No.			
ROUTE <u>FAP 353 (US 30)</u>							-91-046	-12	
SECTION 11-Y-A	LOCATIO	N _SE	C 20	&	29. T 35 N. R 15 E. 3r	d PM			
COUNTY Cook	DRILLING	MET	HOD .	Holl	ow Stern Auger/Rotary H.	AMMER TYPE CME	Autom	atic	
STRUCT. NO	_ D	В	п	м		/a	р в	ū	M
Station	—   Ē	L	Č	0	Stream Bed Elev. <u>n</u>	/a	E L	C	0
BORING NO. BS-11	_   P	0 W	S	S	Groundwater Elevation:		P O	s	S
Station <u>282+11</u> Offset <u>30.6' Left</u>	_   H	S	Qu	Т		$\sqrt{a}$ $\nabla$	H S	Qu	T
Ground Surface Elev. 631	.9 (ft)	(/6")	(tsf)	(%)	After Hrs	$\frac{\sqrt{a}}{\nabla}$	(ft) (/6°	(tsf)	(%
Run 1 continued.	511.4		RUN 1					1	
Charles Carters Missesser Carter D									
Silurian System, Niagaran Series D RUN 2 (-120.5' to -125.5')	olomite _	1					_	-	┡
Light gray mottled gray & slightly	_	1				,			
porous with horizontal bedding be		1,	RUN 2						T
gray & fine grained ♥ -122.5'. Horizontal fractures ♥ -120.7', -1		] '	KUN 2				$\neg$		
-122.5' & -125.1'.		4					-	-	╀
Recovery=96.7%	<u>-125</u>					_	 -145		
RQD=88.0%	506.4	1							T
End Of Boring ♥ -125.5		- 1							
Hollow Stem Augers To −10.0' Rotary Drilling To Completion	_	Н		$\vdash$			+	$\vdash$	⊢
112.0' Of 3.0"\( Casing Used	_	1							
10.0' Of 4.0"ø Casing Used CME Automatic Hammer		П							Γ
ome ratoriate raining	_	1 1					$\dashv$		
		Н		$\vdash$			_	1	H
	-130					:	-150		L
	_	- 1					_		
		1 1							
	_	Н							T
	_	Ш		_			$\neg$		L
		1 1							
	_	1 1					$\dashv$		
	_	П				,			
	<u>-135</u>	$\vdash$		$\vdash$		:	-155	-	⊢
	-	1		l			-		
	_					•	ユ		L
	_	$\Box$				,			Γ
	_	Н		$\vdash$			_	+	$\vdash$
						•	$\dashv$		
		$\perp$				_			L
		$\Box$				·			Γ
The Unconfined Compressive Strength (UCS) For	-140		L.,	<u> </u>	L		-160 VS=Van	<u> </u>	上

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Sheur, P-Penetrometer) ST-Shelby Tube Sample VS=Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

				PA	GE <u>1</u>			of _2	2	=
Geo Services Inc.	ROCK	CORE	LOG	DA	TE _6	/14/	/2012	2		_
Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amherst-Court, Salke 204 Naperville, lilinips 60565 (630) 355-2838					GGED					
Naperville, Illinois 60565 (630) 355-2838					JOB					_
ROUTE FAP 353 (US 30)	DESCRIPTION US I	Route 30 @	EJ&E/CN Railro						12	_
	LOCATION SEC 20				05 110			0 10	-	_
COUNTY Cook	CORING METHOD			OIG I W						_
STRUCT. NO	CORING BARREL T			ivel_10_#	D E	CO	R	R	CO	S T
Station	Core Diameter	2.0 in	NX Double Sw	ivei – IU I	Р	R	E	ġ	R	R E
BORING NO. BS-11	Top of Rock Elev	521.9			H	Е	٥	Ď	ET	N
Station <u>282+11</u>	Begin Core Elev.	521.4					E R	٠	M	G
Offset <u>30.6' Left</u> Ground Surface Elev. <u>631.8</u>					,,,		Y	<b></b>	(min	
Ground Surface Liev	•				(ft) (	~~	(%) 100.0	(%)	/ft) n/a	(tsf) 853 •
Silurian System, Niagaran Series Dol RUN 1 (-110.5' to -120.5')	omite					1	.50.0	76.3	11/4	-111.2
					$\dashv$					
Gray & fine grained with horizontal Porous from -113.0' to -116.8'. Ho	bedding becoming rizontal fractures (	light gray m D -110.8'	nottled gray <b>0</b> - -111.1', -113.0'	–113.0' &	$\exists$					
-116.8'. Vertical fracture from -114					コ					
-116.5.					$\dashv$					
					コ					
				-1	15.5					
					$\dashv$					
					$\neg$					
					$\dashv$					
					$\Box$					
					$\dashv$					
					$\dashv$					
				-1	20.5					Щ
	AND DESIGNATION.				1					
	RS-11		09174		1					
	0511	10-11-1		4	1					
	RIN 1 -1	10.5 to 1.	20.5							
2				-						
	TOP				le .					
	Y 1 - V -			A						
(E)	707			1-0	(					
	114	I SERVICE TO	14							
- Addison	and head	PAR		34						
		947	SHE V	- F 1	9					
	1	47		-						
alam ye	No. of the last of	and the last								
NO.	100				i					

Color pictures of the cores <u>Yes</u> Cores will be stored for examination for —
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)





Color pictures of the cores <u>Yes</u> Cores will be stored for examination for <u>—</u>
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

	V3 Companies of Hillnols Ltd.
<b>/</b> \	7325 Janes Avenue
	Woodridge, IL 60517
	630.724.9200 phone
\ <b>\ \</b>	630.724.9202 fax
	www.v3co.com

USER NAME =	DESIGNED - WJV	REVISED
	CHECKED - CJB	REVISED
PLOT SCALE =	DRAWN - WJV	REVISED
PLOT DATE =	CHECKED - CJB	REVISED

STATE OF ILLINOIS					
DEPARTMENT OF TRANSPORTATION					

SOIL BORING LOGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE.
	353	11-Y-A	COOK	354	218
STRUCTURE NO. 016-1350			CONTRAC	NO.	OR19
SHEET NO. 33 OF 35 SHEETS		ILLINOIS FED. A	D PROJECT		