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SOIL BORING LOG

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

DATE DR _____
LOGGED BY 1/30-31/2012
GSI JOB No. 09174

ROUTE FAP 353 (US 30) DESCRIPTION US Route 30 @ EJ&E/CN Railroad, IDOT Job No. D-91-046-12
SECTION 11-Y-A LOCATION SEC 20 & 29, T 35 N, R 15 E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE Diedrich Automatic

STRUCT. NO. ---
Station ---
BORING NO. **BS-10**
Station 282+75
Offset 22.5' Right
Ground Surface Elev. 632.5

DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)	DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)
510.5							
125				145			
505.5							
130				150			
135				155			
140				160			

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 626.5
Upon Completion n/a
After _____ Hrs.

Run 1 continued. RUN 1
Silurian System, Niagaran Series Dolomite
RUN 1 (-122.0' to -127.0')
Light gray & fine grained with horizontal bedding becoming light gray mottled gray & slightly porous @ -122.3'.
Horizontal fractures @ -124.3', -124.8', -125.0', -125.7', -125.9' & -126.3'.
Recovery=100.0%
RQD=90.0%

End Of Boring @ -127.0'
Hollow Stem Augers To -10.0'
Rotary Drilling To Completion
114.0' Of 4.0" Casing Used
CME Automatic Hammer

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-S 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

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ROCK CORE LOG

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SECTION 11-Y-A LOCATION SEC 20 & 29, T 35 N, R 15 E, 3rd PM
COUNTY Cook CORING METHOD Rotary Wash

STRUCT. NO. ---
Station ---
BORING NO. **BS-10**
Station 282+75
Offset 22.5' Right
Ground Surface Elev. 632.5

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 520.5
Begin Core Elev. 520.5

DEPTH (ft)	CORRECTION (%)	RECOVERY (%)	RQD (%)	CORRECTION (min/ft)	STRENGTH (tsf)
1	99.0	96.5	n/a	114.0	112.0
117					
122					

Silurian System, Niagaran Series Dolomite
RUN 1 (-112.0' to -122.0')
Gray & fine grained with horizontal bedding becoming light gray mottled gray & slightly porous @ -116.2', changing to light gray & fine grained with horizontal bedding @ -119.2'.
Horizontal fractures @ -113.7', -116.5', -117.4', -117.8', -118.0', -118.6', -119.1' & -119.8'.



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

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BORING NO. **BS-10**
Station 282+75
Offset 22.5' Right
Ground Surface Elev. 632.5

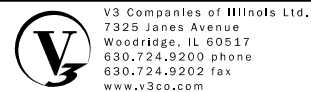
CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 510.5
Begin Core Elev. 510.5

DEPTH (ft)	CORRECTION (%)	RECOVERY (%)	RQD (%)	CORRECTION (min/ft)	STRENGTH (tsf)
2	100.0	90.0	n/a	81.0	122.0
127					
132					

Silurian System, Niagaran Series Dolomite
RUN 1 (-122.0' to -127.0')
Light gray & fine grained with horizontal bedding becoming light gray mottled gray & slightly porous @ -122.3'. Horizontal fractures @ -124.3', -124.8', -125.0', -125.7', -125.9' & -126.3'.



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



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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS
STRUCTURE NO. 016-1350
SHEET NO. 31 OF 35 SHEETS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-Y-A	COOK	354	216
CONTRACT NO. 60R19				

ILLINOIS FED. AID PROJECT