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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 1/24-25/2012
LOGGED BY DR
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-06**
Station 279+75
Offset 22.5' Right
Ground Surface Elev. 632.5

DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elevation: First Encounter (ft)	Upon Completion (ft)	After (ft)	DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)
508.5				n/a	n/a	626.5	n/a					
Recovery=98.8% RQD=85.0%												
RUN 1												
508.5												
Silurian System, Niagaran Series Dolomite RUN 1 (-124.0' to -132.0') Light gray & fine grained with horizontal to wavy bedding becoming light gray mottled gray & slightly porous -127.3'. Horizontal fractures @ -124.8', -128.0', -128.2' & -128.3'. Weathered horizontal fracture with thin clay parting @ -128.8'.												
Recovery=98.8% RQD=93.8%												
RUN 2												
500.5												
End Of Boring @ -132.0' Hollow Stem Augers To -10.0' Rotary Drilling To Completion 10.0' Of 4.0" Casing Used 117.0' Of 3.0" Casing Used CME Automatic Hammer												
135												
140												

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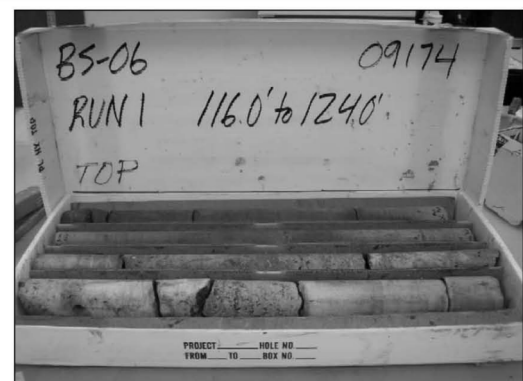
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ROUTE FAP 353 (US 30) DESCRIPTION US Route 30 @ EJ&E/CN Railroad, IDOT Job No. D-91-046-12
SECTION 11-Y-A LOCATION SEC 20 & 29, T 35 N, R 15 E, 3rd PM
COUNTY Cook CORING METHOD Rotary Wash

STRUCT. NO. ---
Station ---
BORING NO. **BS-06**
Station 279+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. 516.5
Begin Core Elev. 516.5

DEPTH (ft)	CORRECTION (%)	RECOVERY (%)	RQD (%)	CORRECTION (min/ft)	STRENGTH (tsf)
1	98.8	85.0	n/a	1072	116.3
Silurian System, Niagaran Series Dolomite RUN 1 (-116.0' to -124.0') Gray & fine grained with horizontal bedding becoming light gray mottled gray with horizontal to wavy bedding @ -119.9'. Horizontal fractures @ -116.1', -116.2', -116.7', -117.4', -120.3', -121.3', -122.5', -122.7', -123.0' & -123.6'.					
126					



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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COUNTY Cook CORING METHOD Rotary Wash

STRUCT. NO. ---
Station ---
BORING NO. **BS-06**
Station 279+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. 508.5
Begin Core Elev. 508.5

DEPTH (ft)	CORRECTION (%)	RECOVERY (%)	RQD (%)	CORRECTION (min/ft)	STRENGTH (tsf)
2	98.8	93.8	n/a	1230	124.0
Silurian System, Niagaran Series Dolomite RUN 1 (-124.0' to -132.0') Light gray & fine grained with horizontal to wavy bedding becoming light gray mottled gray & slightly porous @ -127.3'. Horizontal fractures @ -124.8', -128.0', -128.2' & -128.3'. Weathered horizontal fracture with thin clay parting @ -128.8'.					
136					



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 - EVS	REVISED
PLOT SCALE =	CHECKED - WJV	REVISED
PLOT DATE =	DRAWN - EVS	REVISED
	CHECKED - WJV	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS
STRUCTURE NO. 016-1279**

SHEET NO. 23 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-Y-A	COOK	354	243
CONTRACT NO. 60R19				
ILLINOIS FED. AID PROJECT				