

### SOIL BORING LOG

PAGE 1 of 3 DATE 9/14/2004

ROUTE F.A.U. 1463 (31st Street) DESCRIPTION 31st Street over CW RR & Kilbourn Avenue  
SECTION 1010.1B LOCATION Cicero Avenue Retaining Wall South of 31st Street  
COUNTY Cook-District One DRILLING METHOD 4.25" Hollow Stem Auger HAMMER TYPE Mobil Automatic

STRUCT. NO. Retaining Wall  
Station 405+50 to 408+50 Cicero Ave.  
BORING NO. B-5  
Station: 408+50  
Offset: 66' Right  
Ground Surface Elev. 603.7

DEPTH (ft)	BLU (lb)	UCS (%)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLU (lb)	UCS (%)	MOIST (%)	DESCRIPTION
0				Surface Water Elev. n/a	0				
0				Stream Bed Elev. n/a	0				
0				Groundwater Elevation: 595.2	0				
0				First Encounter n/a	0				
0				Upon Completion n/a	0				
0				After Hrs. n/a	0				
6				SILTY CLAY-trace to some sand, gravel & brick-dark brown-medium dense (Fnl)	6				
7					7				
9				Miscellaneous Brick, Wood, Gravel, Cinders, Clay, Asphalt & Metal-very loose to dense (Fnl) Strong Oil/Creosote odor noted.	9				
10					10				
13					13				
15					15				
20					20				
25					25				
28				Miscellaneous Brick, Wood, Gravel, Cinders, Clay, Asphalt & Metal-very loose to dense (Fnl) Strong Oil/Creosote odor noted.	28				
30					30				
33					33				
34					34				
37					37				
40					40				
42					42				
45					45				
48					48				
50					50				
52					52				
55				SILTY CLAY-trace sand gravel-brown & gray spotted black-medium stiff to very stiff (CL) Fnl	55				
57					57				
60					60				
62					62				
64					64				
67					67				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, 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 (ASTM D 2938) The Unit Dry Weight (pcf) is noted in italics above moist (%) NR-No Recovery

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PAGE 2 of 3 DATE 9/10/2004

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22				Miscellaneous Brick, Wood, Gravel, Cinders, Clay, Asphalt & Metal-very loose to dense (Fnl) Strong Oil/Creosote odor noted.	22				
34					34				
38					38				
42					42				
45					45				
50					50				
55					55				
57					57				
60					60				
62					62				
64					64				
66					66				
68					68				
70					70				
72					72				
75					75				
77					77				
80					80				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, 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 (ASTM D 2938) The Unit Dry Weight (pcf) is noted in italics above moist (%) NR-No Recovery

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DEPTH (ft)	BLU (lb)	UCS (%)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLU (lb)	UCS (%)	MOIST (%)	DESCRIPTION
59					59				
62					62				
64					64				
66					66				
68					68				
70					70				
72					72				
74					74				
76					76				
78					78				
80					80				
82					82				
84					84				
86					86				
88					88				
90					90				
92					92				
94					94				
96					96				
98					98				
100					100				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, 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 (ASTM D 2938) The Unit Dry Weight (pcf) is noted in italics above moist (%) NR-No Recovery

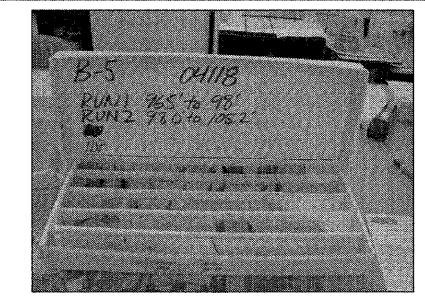
### ROCK CORE LOG

PAGE 1 of 2 DATE 9/10/2004

ROUTE F.A.U. 1463 (31st Street) DESCRIPTION 31st Street over CW RR & Kilbourn Avenue  
SECTION 1010.1B LOCATION Cicero Avenue Retaining Wall South of 31st Street  
COUNTY Cook-District One CORING METHOD Rotary Wash

STRUCT. NO. Retaining Wall  
Station 405+50 to 408+50 Cicero Ave. Core Diameter 2.0 in  
BORING NO. B-5  
Station: 408+50  
Offset: 66' Right  
Ground Surface Elev. 603.7

DEPTH (ft)	R (%)	C (%)	R (%)	C (%)	S (%)	T (%)	DESCRIPTION
0							
1	100.0	22.2	n/a	n/a	n/a	n/a	RUN 1 (-97.6' to -98.0') SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray & fine grained. Horizontal to wavy bedding. Numerous horizontal fractures throughout with some oil staining.
2	100.0	84.8	n/a	n/a	n/a	n/a	RUN 2 (-98.0' to -105.2') Light gray, fine grained & highly fractured with oil staining becoming porous with rust staining @ -100.0'. Same stibolite fracturing. Horizontal fractures @ -100.4', -100.6' & -101.1'. Transverse fracture from -101.8' to -102.2'. Horizontal fractures @ -102.9', -103.1', -103.6' & -104.0'.
10							



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

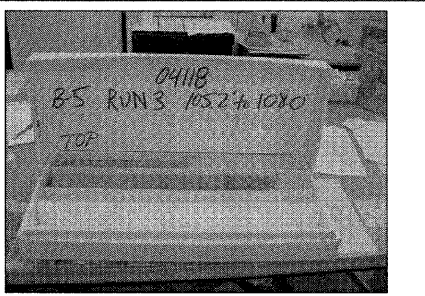
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Ground Surface Elev. 603.7

DEPTH (ft)	R (%)	C (%)	R (%)	C (%)	S (%)	T (%)	DESCRIPTION
3	100.0	85.1	n/a	n/a	n/a	n/a	RUN 3 (-105.2' to -108.0') SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray to gray with horizontal to wavy bedding. Slightly porous with stibolite fracturing. Horizontal fractures @ -106.2', -107.5' & -107.7'.
10							



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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SOIL BORING B-5  
CICERO AVE. RETAINING WALL  
IL ROUTE 50 SECTION 1010.1B  
COOK COUNTY  
STATION 405+33.58 TO 408+53.58  
STR. NO. 016-W981

REVISIONS	
NAME	DATE
Revised Layout	9/25/08

SCALE: VERT. N.T.S. DRAWN BY GF  
DATE SEPTEMBER 25, 2008 CHECKED BY CLS