



Illinois Department of Transportation
State of Illinois
Office of Research and Technology Services

SOIL BORING LOG

Page 1 of 2
Date: 7/10/02

ROUTE (APPROX.) DESCRIPTION: Big Salt Creek LOGGED BY: E. Sandegren

SECTION: 7B-1 LOCATION: SW 1/4, SEC 26, TWP. 34 N, R. 6 E, S 20

COUNTY: Effingham DRILLING METHOD: Hollow stem auger & split spoon HAMMER TYPE: Automatic 140#

DEPTH (ft)	BLOW COUNT (SPT)	UNSATURATED WATERS (%)	MOISTURE (%)	Soil Description	DEPTH (ft)	BLOW COUNT (SPT)	UNSATURATED WATERS (%)	MOISTURE (%)	Soil Description
0				Surface Water Elev. 523.00 ft Ground Surface Elev. 521.00 ft	0				Surface Water Elev. 523.00 ft Ground Surface Elev. 521.00 ft
0.5				Soft, damp, gray, CLAY with black mottling (oxidized)	0.5				Soft, damp, gray, CLAY with black mottling (oxidized)
1.0				Soft, very damp, brown, CLAY w/ rock fragments	1.0				Soft, very damp, brown, CLAY w/ rock fragments
1.5				Medium damp, brown, CLAY w/ some silt and few sesquioxide fragments	1.5				Medium damp, brown, CLAY w/ some silt and few sesquioxide fragments
2.0				Medium damp, brown, CLAY w/ some silt and few sesquioxide fragments	2.0				Medium damp, brown, CLAY w/ some silt and few sesquioxide fragments
2.5				Very soft, very damp, brown, CLAY w/ black mottling	2.5				Very soft, very damp, brown, CLAY w/ black mottling
3.0				Medium damp, brown, CLAY w/ pebbles	3.0				Medium damp, brown, CLAY w/ pebbles
3.5				Soft to medium, very damp, brown, SANDY LOAM w/ many sandstone fragments	3.5				Soft to medium, very damp, brown, SANDY LOAM w/ many sandstone fragments
4.0				Very dense, moist, gray, SANDSTONE	4.0				Very dense, moist, gray, SANDSTONE
4.5				Very dense, moist, gray, SANDSTONE	4.5				Very dense, moist, gray, SANDSTONE
5.0				Gray, fine grained, CLAY	5.0				Gray, fine grained, CLAY
5.5				Very soft, very damp, gray, SILTY CLAY w/ few sand lenses and many wood chunks	5.5				Very soft, very damp, gray, SILTY CLAY w/ few sand lenses and many wood chunks
6.0				Very soft, very damp, gray, SILTY CLAY	6.0				Very soft, very damp, gray, SILTY CLAY
6.5					6.5				
7.0					7.0				
7.5					7.5				
8.0					8.0				
8.5					8.5				
9.0					9.0				
9.5					9.5				
10.0					10.0				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (R-Subso, S-Shear, P-Plasticity)
The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D 1586)
S&S, Form 137 (Rev. 9-99)



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ROCK CORE LOG

Page 2 of 2
Date: 7/10/02

ROUTE (APPROX.) DESCRIPTION: Big Salt Creek LOGGED BY: E. Sandegren

SECTION: 7B-1 LOCATION: SW 1/4, SEC 26, TWP. 34 N, R. 6 E, S 20

COUNTY: Effingham DRILLING METHOD: Rock core and split spoon

STRUCT. NO.: 025-0101 CORING BARREL TYPE: Split Spoon
Station: 146+62.50
Boring No.: 1 of 2 (Used 2nd)
Station: 146+74
Offset: 11.00 ft
Ground Surface Elev.: 521.00 ft
Gray SANDSTONE within bank byw.

DEPTH (ft)	ROCK TYPE	GRAIN SIZE	COHESION (psi)	UNIT WEIGHT (pcf)	MOISTURE (%)	COMMENTS
0.5	CLAY	Very Fine	0	120	20	Soft, damp, gray, CLAY with black mottling (oxidized)
1.0	CLAY	Very Fine	0	120	20	Soft, very damp, brown, CLAY w/ rock fragments
1.5	CLAY	Very Fine	0	120	20	Medium damp, brown, CLAY w/ some silt and few sesquioxide fragments
2.0	CLAY	Very Fine	0	120	20	Medium damp, brown, CLAY w/ some silt and few sesquioxide fragments
2.5	CLAY	Very Fine	0	120	20	Very soft, very damp, brown, CLAY w/ black mottling
3.0	SANDY LOAM	Very Fine	0	120	20	Soft to medium, very damp, brown, SANDY LOAM w/ many sandstone fragments
3.5	SANDY LOAM	Very Fine	0	120	20	Soft to medium, very damp, brown, SANDY LOAM w/ many sandstone fragments
4.0	SANDSTONE	Very Fine	1000	130	20	Very dense, moist, gray, SANDSTONE
4.5	SANDSTONE	Very Fine	1000	130	20	Very dense, moist, gray, SANDSTONE
5.0	CLAY	Very Fine	0	120	20	Gray, fine grained, CLAY
5.5	SILT CLAY	Very Fine	0	120	20	Very soft, very damp, gray, SILTY CLAY w/ few sand lenses and many wood chunks
6.0	SILT CLAY	Very Fine	0	120	20	Very soft, very damp, gray, SILTY CLAY
6.5						
7.0						
7.5						
8.0						
8.5						
9.0						
9.5						
10.0						

Color photos of the cores
Cores will be stored for future use until
The "Strength" column represents the unconfined compressive strength of the core sample (ASTM D 2938)
SPC, Form 138 (Rev. 9-99)

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORINGS SHEET 1 OF 2
ILLINOIS ROUTE 33 OVER
BIG SALT CREEK
F.A.P. ROUTE 95
SECTION 7B-1
EFFINGHAM COUNTY
STA. 146+62.50
STRUCTURE NUMBER 025-0101

DATE: APR, 2002 DRAWN BY: NJV
CHECKED BY: SJK