

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**Illinois Department of Transportation**  
Division of Highways  
District Seven Materials

### SOIL BORING LOG

Page 1 of 2  
Date 7/28/96

ROUTE FAP 857 (IL 14) DESCRIPTION Fox River LOGGED BY D. Lux

SECTION 10IBR-6 LOCATION NW 14, SEC. 29, TWP. 4 S, RING. 14 E, 3 PM

COUNTY White DRILLING METHOD Solid stem auger HAMMER TYPE Automatic

STRUCT. NO. 097-0031  
Station 174+14.21

BORING NO. 7  
Station 176+90  
Offset 46.60ft Lt  
Ground Surface Elev. 365.81 ft (ft) (6") (tsf) (%)

Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	(ft)	(6")	(tsf)	(%)
N/A	N/A			358.3		N/A				

Estimated medium to stiff, damp to very damp, brown marbled gray, CLAY w/high sand content.

353.31 Medium, damp to very damp, CLAY w/roots. 6 0.6 34

352.31 Soft, very damp to wet, gray, CLAY w/small roots. 3 0.4 34

350.81 Very soft, wet, brown marbled gray and red, CLAY. 3 0.2 33

354.81 Very loose, water bearing, fine grained, SAND. 1 0.2 33

345.81 3% passing #200 sieve. 1 18

325.81 5% passing #200 sieve. 26 15

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

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STRUCT. NO. 097-0031  
Station 174+14.21

BORING NO. 7  
Station 176+90  
Offset 46.60ft Lt  
Ground Surface Elev. 365.81 ft (ft) (6") (tsf) (%)

Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	(ft)	(6")	(tsf)	(%)
N/A	N/A			358.3		N/A				

Medium, water bearing, fine grained, brown, SAND w/gravel. 28 11

7% passing #200 sieve. 13 14

319.81 Loose, water bearing, brown, SAND w/gravel. 9 16

5% passing #200 sieve. 315.81 17

314.96 Very dense, very moist, gray, beddy weathered, SANDSTONE. \* 17

Extent of exploration. Auger refusal - hitting drill rig off ground.

\* 100 blows /0.85' penetration

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

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Date 5/201

ROUTE FAP 857 (IL 14) DESCRIPTION Fox River - Shelby Tubes LOGGED BY B. Keller

SECTION 10IBR-6 LOCATION NW 14, SEC. 29, TWP. 4 S, RING. 14 E, 3 PM

COUNTY White DRILLING METHOD Hydraulic push HAMMER TYPE N/A

STRUCT. NO. 097-0031  
Station 174+14.21

BORING NO. A-4S  
Station 173+61  
Offset 23.90ft Lt  
Ground Surface Elev. 365.16 ft (ft) (6") (tsf) (%)

Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	(ft)	(6")	(tsf)	(%)
N/A	N/A									

No sample.

363.16 Stiff, damp, gray, CLAY, A7-6 1.788 23  
1.768 29  
1.048 28

361.66 Soft, wet, gray, CLAY, A7-6 0.345 35

360.66 No recovery.

359.16 Sample disturbed - moisture only 359.16 -5 0.245 37

359.66 V soft, v moist, gray, CLAY, A7-6 0.285 38

359.16 No recovery.

358.16 V soft, v wet, brown to gray, C, A7-6 0.155 36  
0.155 36  
0.205 34  
0.195 34

355.66 No recovery.

355.16 Sample disturbed - moisture only 355.16 -10 0.238 33

354.16 Very soft, very wet, gray, SiC, A-6 0.238 32

354.16 Soft, very wet, gray, SiCL, A-6 0.278 33  
0.335 32

353.16 Sample disturbed - moisture only 352.66 35

352.16 Soft, wet, gray, SiCL, A-6 0.368 33

351.66 Medium, moist, gray, SiCL, A-6 0.538 37

351.16 Soft, moist, gray, SiCL, A-6 0.305 33

350.66 Medium, moist, gray, SILTY CLAY, A-6 w/sand seam. 0.565 29

350.16 No recovery.

348.16 Very soft, very moist, gray, SANDY CLAY, A-4 w/gravel. 0.225 27  
0.065 22  
0.045 23  
0.055 18

Extent of exploration.

Shelby Tube laboratory log shown.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

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ROUTE FAP 857 (IL 14) DESCRIPTION Fox River - Shelby Tubes LOGGED BY B. Keller

SECTION 10IBR-6 LOCATION NW 14, SEC. 29, TWP. 4 S, RING. 14 E, 3 PM

COUNTY White DRILLING METHOD Hydraulic push HAMMER TYPE N/A

STRUCT. NO. 097-0031  
Station 174+14.21

BORING NO. A-6S  
Station 174+36  
Offset 23.60ft Lt  
Ground Surface Elev. 365.81 ft (ft) (6") (tsf) (%)

Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	(ft)	(6")	(tsf)	(%)
N/A	N/A									

365.31 Soft, moist, brown, SiC, A-6 0.478 32

364.81 Medium, moist, brown, SiC, A7-6 0.565 18

364.31 Stiff, moist, brown, SiC, A7-6 1.975 19

363.81 No recovery.

362.81 Stiff, damp, brown, SiC, A7-6 1.808 29  
1.065 31

361.81 Medium, moist, brown to gray, SiC, A-6 0.485 34

361.31 No recovery.

360.81 Soft, wet, gray to brown, SiC, A-6 0.268 35  
0.458 37

359.81 No recovery.

358.81 V soft, wet, gray to brown, SiC, A-6 0.150 36  
0.268 35

357.31 Soft, wet, gray, C to SiC, A-6 0.438 33

356.31 No recovery.

356.31 Soft, wet, gray, C to SiC, A-6 0.348 38  
0.338 38

354.81 No recovery.

353.81 Soft, wet, gray, SiC to C, A-6 0.488 34

353.31 Medium, wet, gray, SiC to C, A-6 0.638 42

352.31 Soft, wet, gray, C to SiC, A7-6 0.488 60

351.81 Soft, wet, gray, SiC, A7-6 0.65 33

350.81 No recovery.

Extent of exploration.

Shelby Tube laboratory log shown.

Abbreviations:  
C Clay  
SiC Silty Clay  
SiCL Silty Clay Loam

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BBS, from 137 (Rev. 8-99)

**BORING DETAILS**  
F.A.P. RT. 857 SEC. 10IBR-6  
WHITE COUNTY  
STATION 171+58.50  
STRUCTURE NO. 097-0071