

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Contract No. 68087



Illinois Department of Transportation
Division of Highways
1001

SOIL BORING LOG

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Date 4/12/02

ROUTE FAS 1190 (US 150) DESCRIPTION US 150 over Henderson Creek, 9 miles North of Galesburg LOGGED BY DBR

SECTION (125 BY) BR LOCATION NE 1/4, SE 1/4, SEC. 33, TWP. 13N, RNG. 1E, 4th PM

COUNTY Knox DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. 048-0027(EXISTING) Station 150+65
BORING NO. 1 Station 150+17
Offset 15.50ft LT of CL
Ground Surface Elev. 719.07 ft

Surface Water Elev. 702.97 ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter 699.3 ft
Upon Completion None ft
After 24 Hrs. 710.5 ft

DEPTH (ft)	DIAMETER (in)	SOIL TYPE	UNIT WEIGHT (pcf)	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	UNCONFINED COMPRESSIVE STRENGTH (psi)	SPT (blows)
0-1		Dark Gray CLAY LOAM (continued)						
1-2	0.5	Dark Gray SILTY CLAY LOAM						
2-3	0.5							
3-4	0.5							
4-5	0.7	Light Brown SILTY CLAY LOAM						
5-6	0.7							
6-7	0.7							
7-8	0.2	Light Brown SILTY CLAY						
8-9	0.2							
9-10	0.2							
10-11	0.4	Light Brown CLAY LOAM						
11-12	0.4							
12-13	0.4							
13-14	0.4	Gray CLAY LOAM						
14-15	0.4							
15-16	1.8	Dark Gray CLAY LOAM						
16-17	1.8							
17-18	0.7							
18-19	0.7							
19-20	0.1	Free Water @ 19.75' (6.02m)						

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 T205)



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ROCK CORE LOG

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Date 4/12/02

ROUTE FAS 1190 (US 150) DESCRIPTION US 150 over Henderson Creek, 9 miles North of Galesburg LOGGED BY DBR

SECTION (125 BY) BR LOCATION NE 1/4, SE 1/4, SEC. 33, TWP. 13N, RNG. 1E, 4th PM

COUNTY Knox CORING METHOD 5' DOUBLE TUBE

STRUCT. NO. 048-0027(EXISTING) Station 150+65
BORING NO. 1 Station 150+17
Offset 15.50ft LT of CL
Ground Surface Elev. 719.07 ft

CORING BARREL TYPE & SIZE 5' NWD4 2.98" O.D.
Core Diameter 2.1 in
Top of Rock Elev. 686.40 ft
Begin Core Elev. 684.73 ft

DEPTH (ft)	DIAMETER (in)	SOIL TYPE	UNCONFINED COMPRESSIVE STRENGTH (psi)
0-1		Gray SHALE	
1-2	8.7	11.5% H2O	22.2
2-3	8.7	11.5% H2O	12.6
3-4	8.7	11.2% H2O	15.7
4-5	8.7	12.1% H2O	4.0
5-6	8.7	11.6% H2O	12.0
6-7	8.7	11.8% H2O	14.3
7-8	8.7	12.0% H2O	6.5
8-9	10.0	11.9% H2O	16.6
9-10	10.0	12.1% H2O	9.0
10-11		End of Boring	

Color pictures of the cores _____ No _____
Cores will be stored for examination until _____
The 'Strength' column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

DESIGNED SMR
CHECKED FT
DRAWN JMI, KBF
CHECKED SMR/FT

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

BORING LOGS