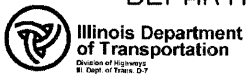


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**SOIL BORING LOG**

Page 2 of 2  
Date 10/21/05

ROUTE FAP 824 (US 45) DESCRIPTION	Un-named Stream	LOGGED BY E. Sandschaefer
SECTION 16-2, 19X-2RS-1, 19B, 19BR LOCATION	SE 1/4, SEC. 23, TWP. 12 N, RNG. 7 E, 3 PM	
COUNTY	Coles	HAMMER TYPE Auto 140#
STRUCT. NO. 015-2006 Station 1381+23.5	Surface Water Elev. Dry ft Stream Bed Elev. 718.83 ft	D B U M E L C O P O S I T W S H S Qu T
BORING NO. 3 Station 1381+89	Groundwater Elev.: First Encounter Dry ft Upon Completion 587.7 ft Ground Surface Elev. 726.22 ft	(ft) (ft) (ft) (%)
Black TOPSOIL w/ roots.	Very stiff to medium, damp, gray, CLAY TILL. (continued)	7 0.9 12
724.63	Stiff to medium, damp, gray, CLAY LOAM TILL.	4 1.7 12
722.13		3 1.0 13
719.63		2 1.2 13
714.63		1 1.1 13
712.13		5 1.4 13
		10 1.4 13
		3 1.7 12
		4 1.9 12
		11 1.9 12
		4 2.1 12
		10 2.1 12
		5 2.1 12
		26 2.1 12
		30 2.1 12
		40 2.1 12
		687.16 40 3
Benchmarks: Chiseled square on NW corner of E headwall of existing box culvert = 726.63		

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)

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAP 824	*	COLES	52	42
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	Contract #74157	*(16-2, 19X-2RS-1, 19B, 19BR)



**SOIL BORING LOG**

Page 1 of 2  
Date 10/21/05

ROUTE FAP 824 (US 45) DESCRIPTION	Un-named Stream	LOGGED BY E. Sandschaefer
SECTION 16-2, 19X-2RS-1, 19B, 19BR LOCATION	SE 1/4, SEC. 23, TWP. 12 N, RNG. 7 E, 3 PM	
COUNTY	Coles	HAMMER TYPE Auto 140#
STRUCT. NO. 015-2006 Station 1381+23.5	Surface Water Elev. Dry ft Stream Bed Elev. 718.83 ft	D B U M E L C O P O S I T W S H S Qu T
BORING NO. 2 Station 1381+24	Groundwater Elev.: First Encounter Dry ft Upon Completion 689.2 ft Ground Surface Elev. 727.16 ft	(ft) (ft) (ft) (%)
Dark brown, TOPSOIL w/ roots.	Stiff to very stiff, damp, gray, CLAY LOAM TILL. (continued)	9 2.2 12
725.16		11 4 12
722.86		4 1.9 12
720.16		2 1.4 20
715.16		1 0.2 25
712.16		0 1.3 15
		4 1.1 14
		5 2.1 12
		10 2.1 12
		26 2.1 12
		30 2.1 12
		40 2.1 12
		687.16 40 3
Benchmarks: Chiseled square on NW corner of E headwall of existing box culvert = 726.63		

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)



**SOIL BORING LOG**

Page 1 of 2  
Date 10/21/05

ROUTE FAP 824 (US 45) DESCRIPTION	Un-named Stream	LOGGED BY E. Sandschaefer
SECTION 16-2, 19X-2RS-1, 19B, 19BR LOCATION	SE 1/4, SEC. 23, TWP. 12 N, RNG. 7 E, 3 PM	
COUNTY	Coles	HAMMER TYPE Auto 140#
STRUCT. NO. 015-2006 Station 1381+23.5	Surface Water Elev. Dry ft Stream Bed Elev. 718.83 ft	D B U M E L C O P O S I T W S H S Qu T
BORING NO. 1 Station 1379+94	Groundwater Elev.: First Encounter Dry ft Upon Completion 590.1 ft Ground Surface Elev. 726.63 ft	(ft) (ft) (ft) (%)
Black, TOPSOIL w/ roots.	Very stiff to medium, damp, gray, CLAY TILL. (continued)	7 0.9 12
724.63	Stiff to medium, damp, gray, CLAY LOAM TILL.	4 1.7 12
722.13		3 1.0 13
719.63		2 1.2 13
714.63		1 1.1 13
712.13		5 1.4 13
		10 1.4 13
		3 1.7 12
		4 1.9 12
		11 1.9 12
		4 2.1 12
		10 2.1 12
		5 2.1 12
		26 2.1 12
		30 2.1 12
		40 2.1 12
		687.16 40 3
Benchmarks: Chiseled square on NW corner of E headwall of existing box culvert = 726.63		

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)



**SOIL BORING LOG**

Page 1 of 2  
Date 10/21/05

ROUTE FAP 824 (US 45) DESCRIPTION	Un-named Stream	LOGGED BY E. Sandschaefer
SECTION 16-2, 19X-2RS-1, 19B, 19BR LOCATION	SE 1/4, SEC. 23, TWP. 12 N, RNG. 7 E, 3 PM	
COUNTY	Coles	HAMMER TYPE Auto 140#
STRUCT. NO. 015-2006 Station 1381+23.5	Surface Water Elev. Dry ft Stream Bed Elev. 718.83 ft	D B U M E L C O P O S I T W S H S Qu T
BORING NO. 3 Station 1381+89	Groundwater Elev.: First Encounter Dry ft Upon Completion 587.7 ft Ground Surface Elev. 726.22 ft	(ft) (ft) (ft) (%)
Black TOPSOIL w/ roots.	Medium to stiff, damp, gray, CLAY LOAM TILL. (continued)	6 0.7 12
725.16		2 0.9 13
722.13		4 0.9 13
719.63		2 1.0 13
714.63		1 1.1 13
712.13		5 1.4 13
		10 1.4 13
		3 1.7 12
		4 1.9 12
		11 1.9 12
		4 2.1 12
		10 2.1 12
		5 2.1 12
		26 2.1 12
		30 2.1 12
		40 2.1 12
		687.22 40 3
Benchmarks: Chiseled square on NW corner of E headwall of existing box culvert = 726.63		

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)



**SOIL BORING LOG**

Page 2 of 2  
Date 10/21/05

ROUTE FAP 824 (US 45) DESCRIPTION	Un-named Stream	LOGGED BY E. Sandschaefer
SECTION 16-2, 19X-2RS-1, 19B, 19BR LOCATION	SE 1/4, SEC. 23, TWP. 12 N, RNG. 7 E, 3 PM	
COUNTY	Coles	HAMMER TYPE Auto 140#
STRUCT. NO. 015-2006 Station 1381+23.5	Surface Water Elev. Dry ft Stream Bed Elev. 718.83 ft	D B U M E L C O P O S I T W S H S Qu T
BORING NO. 3 Station 1381+89	Groundwater Elev.: First Encounter Dry ft Upon Completion 587.7 ft Ground Surface Elev. 726.22 ft	(ft) (ft) (ft) (%)
Stiff, damp, gray, CLAY LOAM TILL.		6 1.7 12
686.22		9 1.7 12
Extent of exploration		
Benchmarks: Chiseled square on NW corner of E headwall of existing box culvert = 726.63		

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)

**ESCA**  
CONSULTANTS, INC.

DESIGNED BY: DAJ 07/08  
DRAWN BY: HAS 07/08  
CHECKED BY: ELH 07/08  
APPROVED BY: RDP 07/08

SOIL BORING LOGS  
US 45 OVER KICKAPOO CREEK  
FAP ROUTE 824  
SECTION (16-2, 19X-2)RS-1, 19B, 19BR  
COLES COUNTY  
STATION 1381+22.50  
STRUCTURE NO. 015-2023