HOLCOMB FOUNDATION ENGINEERING INC.
P.O. Box 88 618-529-5262
Carbondale, IL 62903 618-457-8991 fax
Page 1 of 2

Bridge Foundation Boring Log

Project: H-09146 Bridge over Freedwell Branch Date: 12/3/09
Section: 08-09121-00-BR Station
Route: Bored by: J. Carter
County: Vermilion Checked By: T. Holcomb

Boring No: 1
Station:
Offset:

Surface Water Elev.
Ground Water Elev. During Drilling 642.7
Upon Completion 654.2

Elevation	N	Qu	tsf	W %
Ground Surface 671.2 0				
2" A-3 Surface 5" Cr. Stone				
Dark Brown Silty CLAY (A-6)				
	12	2.39	23	
667.2				
Brown Mottled Grey Silty CLAY to CLAY (A-6)	7	1.82	27	
665.2				
Brown Silty CLAY (CL) with sand	4	1.18	20	
662.7				
Gray Mottled Brown Sandy CLAY (A-6)	8	4.45	16	
	20	---	13	
	8	1.48	18	
	12	1.48	14	
	11	2.98	11	
	12	1.38	12	

Elevation	N	Qu	tsf	W %
sandy clay (continued)				
645.2				
Grey Sandy CLAY (CL) with trace gravel				
	53	12.25	8	
	38	7.05	10	
	62	11.35	9	
	44	10.75	10	

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
Qu-Unconfined Compressive Strength in tons/sq.ft. w-Water Content-percentage of oven dry weight-%
B = Bulge Failure S = Shear Failure E = Estimated Value P = Penetrometer

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Boring No: 1
Station:
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Surface Water Elev.
Ground Water Elev. During Drilling 642.7
Upon Completion 654.2

Elevation	N	Qu	tsf	W %
sandy clay (continued)				
	45	43	7.68	11
	36	8.75	11	
	47	8.75	11	
	52	8.25	12	
Gray LIMESTONE 608.2	100			
Auger Refusal	71	---	1	
End of Boring @ -63.0'				

Elevation	N	Qu	tsf	W %
sandy clay (continued)				
	17	5.09	16	
	54	---	9	
	50	2.58	13	
	52	9.55	10	
	36	2.38	14	

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
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Project: H-09146 Bridge over Freedwell Branch Date: 12/3/09
Section: 08-09121-00-BR Station
Route: Bored by: J. Carter
County: Vermilion Checked By: T. Holcomb

Boring No: 2
Station:
Offset:

Surface Water Elev.
Ground Water Elev. During Drilling 642.8
Upon Completion 661.3

Elevation	N	Qu	tsf	W %
Ground Surface 671.3 0				
2" A-3 Surface 5" Cr. Stone				
Gray CLAY (A-7-6)				
	13	3.35	26	
	8	2.18	28	
665.3				
Gray Mottled Brown Silty CLAY (A-4) with sand and gravel	3	0.38	30	
662.8				
Gray Mottled Brown Silty CLAY (A-6)	2	0.48	25	
660.3				
Brown To Gray Sandy CLAY (A-6)	10	2.38	13	
	10	2.68	13	
	12	2.38	13	
	17	4.28	11	
	15	3.88	11	

Elevation	N	Qu	tsf	W %
sandy clay (continued)				
	17	5.09	16	
	54	---	9	
	50	2.58	13	
	52	9.55	10	
	36	2.38	14	

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
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Bridge Foundation Boring Log

Project: H-09146 Bridge over Freedwell Branch Date: 12/3/09
Section: 08-09121-00-BR Station
Route: Bored by: J. Carter
County: Vermilion Checked By: T. Holcomb

Boring No: 2
Station:
Offset:

Surface Water Elev.
Ground Water Elev. During Drilling 642.8
Upon Completion 661.3

Elevation	N	Qu	tsf	W %
sandy clay (continued)				
	45	50	8.05	10
	74	6.75	10	
	48	2.23	16	
	58	2.38	11	

Elevation	N	Qu	tsf	W %
sandy clay (continued)				
602.8				
Black SHALE	100			
600.3	75	---	10	
Gray SHALE	100			
	72	---	6	
597.3	100			
End of Boring @ -74.0'	72	---	6	

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
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ESI CONSULTANTS, LTD
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CHARLESTON, IL 61920
(217) 348-1906
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ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184-003885

DATE: 02-05-10 DRAWN BY: JEH CHECKED BY: DF

SHEET NO. 7 OF 7 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	08-09121-00-BR	VERMILION	14	10
	SN 092-3514	CONTRACT NO. 91431		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

PRINTED DATE: 2/23/2010
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