

LOG OF BORING NO. E-1																				
CLIENT		PROJECT																		
Illinois Department of Natural Resources		Blackberry Creek Dam Removal																		
SITE		SITES																		
North of River Road & West of Yorkville, Illinois		Blackberry Creek Dam Removal																		
GRAPHIC LOG	DEPT. E.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, %	SPT N ¹ BLOWS / FT	WATER CONTENT, %	DRY UNIT WT, pcf	UNCONFINED STRENGTH, psf	PID (ppm)										
											Approx. Surface Elev.: 586.054 ft	585.5	CL-ML 1	SS	2	50/2	14	8	4000*	***ND
											Approx. 6" Topsoil		CL-ML 2	SS	8	50/2	11		9000*	***ND
													CL-ML 3	SS	5	50/2	10		9000*	***ND
BOTTOM OF BORING																				
Practical Auger Refusal on apparent weathered limestone at about 3 feet.																				
***ND indicates a reading of less than the field detection limit (FDL) of one (1) part per million isobutylene equivalents (ppm).																				
The stratification lines represent the approximate boundary lines between soil and rock types. In-situ, the transition may be gradual.																				
*Pocket Penetrometer **140 Lbs Automatic SPT Hammer																				
WATER LEVEL OBSERVATIONS, ft		BORING STARTED		BORING COMPLETED																
WL 6.5	WD 3	AB	3-27-12	3-27-12																
Terracon		RIG 68 FOREMAN JA		APPROVED KCB JOB # 11125018																
Exhibit A-4																				

LOG OF BORING NO. E-2																				
CLIENT		PROJECT																		
Illinois Department of Natural Resources		Blackberry Creek Dam Removal																		
SITE		SITES																		
North of River Road & West of Yorkville, Illinois		Blackberry Creek Dam Removal																		
GRAPHIC LOG	DEPT. E.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, %	SPT N ¹ BLOWS / FT	WATER CONTENT, %	DRY UNIT WT, pcf	UNCONFINED STRENGTH, psf	PID (ppm)										
											Approx. Surface Elev.: 584.733 ft	584	CL-ML 1	SS	16	9	20	16	3000*	***ND
											Approx. 6" Topsoil		CL-ML 2	SS	13	88	9		9000*	1.0
													CL-ML 3	SS	2	50/5	11		9000*	1.6
BOTTOM OF BORING																				
Practical Auger Refusal on apparent weathered limestone at about 5 1/2 feet.																				
***ND indicates a reading of less than the field detection limit (FDL) of one (1) part per million isobutylene equivalents (ppm).																				
The stratification lines represent the approximate boundary lines between soil and rock types. In-situ, the transition may be gradual.																				
*Pocket Penetrometer **140 Lbs Automatic SPT Hammer																				
WATER LEVEL OBSERVATIONS, ft		BORING STARTED		BORING COMPLETED																
WL 6.5	WD 3	AB	3-27-12	3-27-12																
Terracon		RIG 68 FOREMAN JA		APPROVED KCB JOB # 11125018																
Exhibit A-5																				

LOG OF BORING NO. E-3																				
CLIENT		PROJECT																		
Illinois Department of Natural Resources		Blackberry Creek Dam Removal																		
SITE		SITES																		
North of River Road & West of Yorkville, Illinois		Blackberry Creek Dam Removal																		
GRAPHIC LOG	DEPT. E.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, %	SPT N ¹ BLOWS / FT	WATER CONTENT, %	DRY UNIT WT, pcf	UNCONFINED STRENGTH, psf	PID (ppm)										
											Approx. Surface Elev.: 584.726 ft	584.5	CL-ML 1	SS	12	14	24			***ND
											Approx. 5" Topsoil		CL-ML 2	SS	NR	4				
													CL-ML 3	SS	14	6	28		<500*	***ND
													GP-GM 4	SS	11	11	19			***ND
													GP-GM 5	SS	11	18	10			***ND
BOTTOM OF BORING																				
Practical Auger Refusal at about 11 1/2 feet.																				
***ND indicates a reading of less than the field detection limit (FDL) of one (1) part per million isobutylene equivalents (ppm).																				
The stratification lines represent the approximate boundary lines between soil and rock types. In-situ, the transition may be gradual.																				
*Pocket Penetrometer **140 Lbs Automatic SPT Hammer																				
WATER LEVEL OBSERVATIONS, ft		BORING STARTED		BORING COMPLETED																
WL 6.5	WD 3	AB	3-27-12	3-27-12																
Terracon		RIG 68 FOREMAN JA		APPROVED KCB JOB # 11125018																
Exhibit A-6																				

LOG OF BORING NO. E-4																				
CLIENT		PROJECT																		
Illinois Department of Natural Resources		Blackberry Creek Dam Removal																		
SITE		SITES																		
North of River Road & West of Yorkville, Illinois		Blackberry Creek Dam Removal																		
GRAPHIC LOG	DEPT. E.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, %	SPT N ¹ BLOWS / FT	WATER CONTENT, %	DRY UNIT WT, pcf	UNCONFINED STRENGTH, psf	PID (ppm)										
											Approx. Surface Elev.: 584.881 ft	584.0	CL-ML 1	SS	16	6	23		2000*	***ND
											Approx. 5" Topsoil		OL-CH 2	SS	10	4	53		<500*	***ND
													OL-CH 3	SS	11	5	31		<500*	***ND
													GP	SS	1	23	5			***ND
BOTTOM OF BORING																				
Practical Auger Refusal at about 11 1/2 feet.																				
***ND indicates a reading of less than the field detection limit (FDL) of one (1) part per million isobutylene equivalents (ppm).																				
The stratification lines represent the approximate boundary lines between soil and rock types. In-situ, the transition may be gradual.																				
*Pocket Penetrometer **140 Lbs Automatic SPT Hammer																				
WATER LEVEL OBSERVATIONS, ft		BORING STARTED		BORING COMPLETED																
WL 6.5	WD 3	AB	3-27-12	3-27-12																
Terracon		RIG 68 FOREMAN JA		APPROVED KCB JOB # 11125018																
Exhibit A-7																				

LOG OF BORING NO. S-8																			
CLIENT		PROJECT																	
Illinois Department of Natural Resources		Blackberry Creek Dam Removal																	
SITE		SITES																	
North of River Road & West of Yorkville, Illinois		Blackberry Creek Dam Removal																	
GRAPHIC LOG	DEPT. E.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, %	SPT N ¹ BLOWS / FT	WATER CONTENT, %	DRY UNIT WT, pcf	UNCONFINED STRENGTH, psf	ORGANIC CONTENT, %									
											Approx. Surface Elev.: 583.280 ft	583	OL-CH 1	ST	12	53	500*	4.8	
													OL-CH 2	ST	14	72	53	1000*	8.3
													OL-CH 3	ST	13	71		<500*	
													OL-CH 4	SS	20	3	83		<500*
BOTTOM OF BORING																			
Practical Auger Refusal at about 13 feet.																			
***Classification of rock materials based on drilling characteristics and observation of disturbed samples. Core samples and petrographic analysis may indicate other rock types.																			
The stratification lines represent the approximate boundary lines between soil and rock types. In-situ, the transition may be gradual.																			
*Pocket Penetrometer **140 Lbs Automatic SPT Hammer																			
WATER LEVEL OBSERVATIONS, ft		BORING STARTED		BORING COMPLETED															
WL 6.5	WD 3.5	AB	3-27-12	3-27-12															
Terracon		RIG 68 FOREMAN JA		APPROVED KCB JOB # 11125018															
Exhibit A-11																			

LOG OF BORING NO. S-9																			
CLIENT		PROJECT																	
Illinois Department of Natural Resources		Blackberry Creek Dam Removal																	
SITE		SITES																	
North of River Road & West of Yorkville, Illinois		Blackberry Creek Dam Removal																	
GRAPHIC LOG	DEPT. E.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, %	SPT N ¹ BLOWS / FT	WATER CONTENT, %	DRY UNIT WT, pcf	UNCONFINED STRENGTH, psf	ORGANIC CONTENT, %									
											Approx. Surface Elev.: 584.249 ft	584	OL-CH 1	ST	12	42	86	<500*	4.8
													OL-CH 2	ST	14	50	80	1000*	8.6
													OL-CH 3	ST	19	63		<500*	
													CL-ML 4	SS	16	4	25		1000*
BOTTOM OF BORING																			
Practical Auger Refusal at about 14 feet.																			
***Classification of rock materials based on drilling characteristics and observation of disturbed samples. Core samples and petrographic analysis may indicate other rock types.																			
The stratification lines represent the approximate boundary lines between soil and rock types. In-situ, the transition may be gradual.																			
*Pocket Penetrometer **140 Lbs Automatic SPT Hammer																			
WATER LEVEL OBSERVATIONS, ft		BORING STARTED		BORING COMPLETED															
WL 6.5	WD 5.5	AB	3-27-12	3-27-12															
Terracon		RIG 68 FOREMAN JA		APPROVED KCB JOB # 11125018															
Exhibit A-12																			

LOG OF BORING NO. S-10																				
CLIENT		PROJECT																		
Illinois Department of Natural Resources		Blackberry Creek Dam Removal																		
SITE		SITES																		
North of River Road & West of Yorkville, Illinois		Blackberry Creek Dam Removal																		
GRAPHIC LOG	DEPT. E.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, %	SPT N ¹ BLOWS / FT	WATER CONTENT, %	DRY UNIT WT, pcf	UNCONFINED STRENGTH, psf	ORGANIC CONTENT, %										
											Approx. Surface Elev.: 582.812 ft	582	CL-ML 1	SS	NR	4				
											Approx. 8" Topsoil		OL-CH 2	SS	18	WCH	78		<500*	
													CL-ML 3	SS	22	2	36		<500*	
													CL-ML 4	SS	11	24	30			
													SM	SS	NR	50/1	28			
BOTTOM OF BORING																				
Practical Auger Refusal at about 11 1/2 feet.																				
***Classification of rock materials based on drilling characteristics and observation of disturbed samples. Core samples and petrographic analysis may indicate other rock types.																				
The stratification lines represent the approximate boundary lines between soil and rock types. In-situ, the transition may be gradual.																				
*Pocket Penetrometer **140 Lbs Automatic SPT Hammer																				
WATER LEVEL OBSERVATIONS, ft		BORING STARTED		BORING COMPLETED																
WL 6.5	WD 2	AB	3-27-12	3-27-12																
Terracon		RIG 68 FOREMAN JA		APPROVED KCB JOB # 11125018																
Exhibit A-13																				

LOG OF BORING NO. S-11																			
CLIENT		PROJECT																	
Illinois Department of Natural Resources		Blackberry Creek Dam Removal																	
SITE		SITES																	
North of River Road & West of Yorkville, Illinois		Blackberry Creek Dam Removal																	
GRAPHIC LOG	DEPT. E.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, %	SPT N ¹ BLOWS / FT	WATER CONTENT, %	DRY UNIT WT, pcf	UNCONFINED STRENGTH, psf	ORGANIC CONTENT, %									
											Approx. Surface Elev.: 684.678 ft	584	OL-CH 1	SS	10	6	32		1000*
													OL-CH 2	SS	8	5	30		420
													OL-CH 3	SS	14	5	48		1000*
													SP-SM	SS	10	13	20		
BOTTOM OF BORING																			
Practical Auger Refusal at about 11 1/2 feet.																			
***Classification of rock materials based on drilling characteristics and observation of disturbed samples. Core samples and petrographic analysis may indicate other rock types.																			
The stratification lines represent the approximate boundary lines between soil and rock types. In-situ, the transition may be gradual.																			
*Pocket Penetrometer **140 Lbs Automatic SPT Hammer																			
WATER LEVEL OBSERVATIONS, ft		BORING STARTED		BORING COMPLETED															
WL 5	WD 4	AB	3-27-12	3-27-12															
Terracon		RIG 68 FOREMAN JA		APPROVED KCB JOB # 11125018															
Exhibit A-14																			

Designed By WTC Checked By TMM
 Drawn By JUF Checked By TMM
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