BORING LOG

PROJECT: Fyfeshire Dam

LOCATION: Bolton, MA

BORING ID:

 $\frac{B-1}{1 \text{ of } 3}$

SHEET: <u>1 of 3</u> PROJECT NO: <u>20090501.A10</u>

CONTRACTOR: GeoSearch

OPERATOR: Justin

F&O REPRESENTATIVE: <u>C. Cullen</u>

DRILLING METHOD: <u>HSA (3 ¾" ID)</u> SAMPLING METHOD: <u>Split Spoon (2" OD)</u>

HAMMER WT: <u>140 lbs</u> HAMMER FALL (IN): <u>30"</u> BORING LOCATION: <u>Crest – 20 feet right of spillway</u>

GROUND ELEVATION: 371 (approx.)

DATE STARTED: 10/5/09 DATE FINISHED: 10/5/09

WATER LEVEL MEASUREMENTS								
DATE	MS. PT.	WATER AT	TIME					
10/5/09	Ground Surface	7.4'						
10/15/09	Ground Surface	7.5'						

Time and Date of Completion: 10/5/09

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN (IN/IN)	BLOWS/	SAMPLE DESCRIPTION	STRATA CHANGE	USCS Class.	NOTES
0								
1	S-1	0-2	0/24	5-2-3-5	No recovery; tree root fragment in spoon tip			
2								
3	S-2	2-4	0/24	8-9-6-4	Broken ROCK and GRAVEL, little fine to medium Sand			
4								
5	S-3	4-6	6/24	6-4-3-5	Broken ROCK and COBBLES, little Gravel, trace Sand			1
6								
7	S-4	6-8	6/24	11-13-16- 18	Broken ROCK and COBBLES	Rock, cobbles, gravel		
8								
9								
10								
11	S-5	10-12	14/24	14-20-37- 45	Broken ROCK (rock fragment stuck in spoon tip)			
12								
13								
14								

MINOR CONSTITUENT PROPORTIONS USED:

Trace 0 to 10% Some Little 10 to 20% And

Some 20 to 35% And 35 to 50% **REMARKS:** 1: Rounded stones and cobbles visible on augers. No soil on augers.

BORING LOG

PROJECT: Fyfeshire Dam

LOCATION: Bolton, MA

BORING ID: SHEET:

 $\frac{B-1}{2 \text{ of } 3}$

PROJECT NO: <u>20090501.A10</u>

CONTRACTOR: GeoSearch
OPERATOR: Justin
F&O REPRESENTATIVE: C. Cullen
DRILLING METHOD: HSA (3 ¾" ID)
SAMPLING METHOD: Split Spoon (2" OD)
HAMMER WT: 140 lbs HAMMER FALL (IN): 30"
BORING LOCATION: <u>Crest – 20 feet right of spillway</u>
GROUND ELEVATION: 371 (approx.)
DATE STARTED: 10/5/09 DATE FINISHED: 10/5/09

WATER LEVEL MEASUREMENTS								
DATE	MS. PT.	WATER AT	TIME					
Time and Date of Completion:								

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN (IN/IN)	BLOWS/ 6"	SAMPLE DESCRIPTION	STRATA CHANGE	USCS Class.	NOTES
15								
16	S-6	15-17	24/24	20-20-28- 46	Broken ROCK, some Gravel, trace Sand, trace Silt	Rock,		
17						Cobbles		
18						-		
19								2
20								
21	S-7	20-22	24/24	3-4-3-4	Loose, brown, fine to coarse SAND, trace Silt		sw	
22								
23								
24						Sand		
25						-		
26	S-8	25-27	16/24	WOH- WOH-2-2	Very loose, brown, fine SAND, trace Silt	-	SP	
27								
28								
29								

MINOR CONSTITUENT PROPORTIONS USED:

Trace 0 to 10% Little 10 to 20% Some 20 to 35% And 35 to 50% **REMARKS:** 2: Transition from cobbles to sand at approximately 19 feet.

BORING LOG

PROJECT: Fyfeshire Dam

LOCATION: Bolton, MA

BORING ID: SHEET:

B-1 3 of 3

PROJECT NO: 20090501.A10

	· · · · · · · · · · · · · · · · · · ·					
CONTRACTOR: GeoSearch OPERATOR: Justin	<u> </u>		WATER	LEVEL 1	MEASUREMENT	rs .
F&O REPRESENTATIVE: C. Cullen		DATE	MS.	PT.	WATER AT	TIME
DRILLING METHOD: HSA (3 3/4" ID)						
SAMPLING METHOD: Split Spoon (2" OD)						
HAMMER WT: 140 lbs HAMMER FA	ALL (IN): <u>30"</u>					
BORING LOCATION: Crest – 20 feet right of s	<u>spillway</u>					
GROUND ELEVATION: 371 (approx.)						
DATE STARTED: 10/5/09 DATE FINE	ISHED: <u>10/5/09</u>					
		Time and D	ate of Com	pletion:		
				-		

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN (IN/IN)	BLOWS/	SAMPLE DESCRIPTION	STRATA CHANGE	USCS Class.	NOTES
30								
31	S-9	30-32	24/24	4-4-8-7	Medium dense, brown, fine to coarse SAND, trace Silt, trace Gravel		SW	
32								
•						Sand		3
•								
•								
50					Boring terminated at 50 feet			

MINOR CONSTITUENT PROPORTIONS USED:

Trace 0 to 10% Little 10 to 20%

Some 20 to 35% And 35 to 50% **REMARKS:** 3: Auger advanced without sampling from 32 feet to 50 feet. No soil on augers.

BORING LOG

PROJECT: Fyfeshire Dam

LOCATION: Bolton, MA

BORING ID: SHEET:

B-2 1 of 1

SHEET: <u>1 of 1</u> PROJECT NO: <u>20090501.A10</u>

Localiton, Bolton,	1711				
CONTRACTOR: Fuss & O'Neill, Inc.		WATER I	EVEL MEASUR	EMENTS	
OPERATOR:		1			
F&O REPRESENTATIVE: <u>C. Cullen</u>	DATE	MS. P	T. WATE	R AT	TIME
DRILLING METHOD: Hand Auger (4" OD)					
SAMPLING METHOD: Hand Auger (4" OD)					
HAMMER WT: HAMMER FALL (IN):					
BORING LOCATION: (see plan)					
GROUND ELEVATION: 371 (approx.)					
DATE STARTED: 10/15/09 DATE FINISHED: 10/15/09					
DITTE STRICTED. 10/13/07 DITTE THAISHED. 10/13/07	Time and D	ate of Comp	letion:		
	Time and D	ate of Comp	<u></u>		
DEPTH SAMPLE SAMPLE REC/DEPTH PEN 6'' SAMI	PLE DESCRIPT	TION	STRATA CHANGE	USCS Class.	NOTES

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN (IN/IN)	BLOWS/	SAMPLE DESCRIPTION	STRATA CHANGE	USCS Class.	NOTES
0						Rock,		
1	S-1	0-2	24/24		COBBLES and Rounded GRAVEL, trace Sand, trace Silt	gravel		1
2					Hand auger refusal at 2 feet			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								

MINOR CONSTITUENT PROPORTIONS USED:

Trace 0 to 10% Some 20 to 35% Little 10 to 20% And 35 to 50%

REMARKS: 1: Rounded stones and cobbles encountered.