ATTACHMENT 2

Subsurface Logs

DATE:
START 9/18/2008
FINISH 9/18/2008

SHEET 1 OF 2

SJB SERVICES, INC.
SUBSURFACE LOG

PROJ. NO. AD-08-051
HOLE NO. **B-4**
SURF. ELEV. 1900.58'
G.W. DEPTH See Below

PROJECT: Subsurface Investigation
Belleayre UMP

LOCATION: Town of Shandaken
Ulster County, New York

DEPTH (ft.)	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	REC. (ft.)	SOIL OR ROCK CLASSIFICATION	NOTES
	1	2	3	3	4	6	1.0	TOPSOIL, roots, organics +/- 0.6'	Driller reports coarse auger advance from surface; augered through or past boulder 6' - 7.3'. Becomes less coarse thereafter.
	2	10	21	23	27	44	1.7	Brown fine SAND, some Silt, little coarse sand and gravel (Moist - Loose) +/- 2.0'	
	3	12	35	100/.1	-	-	0.9	Brown SAND and GRAVEL, trace silt (Dry - Compact) - Similar; becomes Reddish Brown, gravel portion more angular. (Dry - Very Compact)	
5	4	100/.2	-	-	-	-	0.1	Brown Gray SAND and SANDSTONE boulder fragments (Dry - Very Compact)	Falling head permeabilty test performed @ 19.0'; no measureable ground-water prior to performing test.
	5	14	13	15	14	28	1.8	Reddish Brown SAND and GRAVEL, trace to little silt (Damp - Firm)	
10	6	12	16	18	23	34	1.7	- Similar (Damp - Compact)	
15	7	24	17	21	30	38	1.9	Reddish Brown SAND and GRAVEL, Some Silt (Moist - Compact) USCS: SM-GM +/- 19.0'	Driller reports augering through boulder @ 26' to 28'. Falling head permeabilty test performed @ 34.0'.
20	8	17	35	48	63	83	2.0	TILL: Reddish Brown SILT and fine SAND w/embedded coarser sands, gravel (Moist - Very Compact)	Water level @ 23.3' upon completion of sampling (drill water).
25	9	34	41	62	94	103	1.9	- Similar; sandstone boulder fragments in shoe	
30	10	19	44	65	100/.4	109	1.8	- Similar; w/boulder fragments in shoe	
35	11	22	37	49	91	86	1.8	- Similar	
40								USCS: SM-GM	

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW

CLASSIFICATION: Visual by Geotechnical Engineer

DRILLER: Tom Farrell DRILL RIG TYPE: CME 550x

METHOD OF INVESTIGATION: 4 1/4" Hollow Stem Augers, 3" FJ Casing

All recovered samples will be retained for approximately sixty (60) days, at which time the samples will be discarded unless directed otherwise.

DATE:
START 9/18/2008
FINISH 9/18/2008

SHEET 2 OF 2

SJB SERVICES, INC.
SUBSURFACE LOG

PROJ. NO. AD-08-051
HOLE NO. **B-4**
SURF. ELEV. 1900.58'
G.W. DEPTH See Below

PROJECT: Subsurface Investigation
Belleayre UMP

LOCATION: Town of Shandaken
Ulster County, New York

DEPTH (ft.)	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	REC. (ft.)	SOIL OR ROCK CLASSIFICATION	NOTES
	12	29	40	69	100/.1	109	1.5	TILL: Reddish Brown fine SAND, some Silt w/embedded coarser sands, gravel (Very Moist - Very Compact)	
								End of Boring @ 41.6'	
45									Hole backfilled with bentonite chips 41.6' to 34.0', then tremie grout w/ bentonite slurry to surface.
50									
55									
60									
65									
70									
75									
80									

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW

CLASSIFICATION: Visual by Geotechnical Engineer

DRILLER: Tom Farrell

DRILL RIG TYPE: CME 550x

METHOD OF INVESTIGATION: 4 1/4" Hollow Stem Augers, 3" FJ Casing

All recovered samples will be retained for approximately sixty (60) days, at which time the samples will be discarded unless directed otherwise.

DATE:
START 9/16/2008
FINISH 9/16/2008

SHEET 1 OF 1

SJB SERVICES, INC.
SUBSURFACE LOG

SJB SERVICES, INC.

PROJ. NO. AD-08-051
HOLE NO. **B-5**
SURF. ELEV. 1915.34'
G.W. DEPTH See Below

PROJECT: Subsurface Investigation
Belleayre UMP

LOCATION: Town of Shandaken
Ulster County, New York

DEPTH (ft.)	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	REC. (ft.)	SOIL OR ROCK CLASSIFICATION	NOTES
	1	3	6	8	10	14	1.2	TOPSOIL +/- 0.4'	Driller notes coarse material in upper 13'.
								Brown SAND and GRAVEL, little to some silt (Damp - Firm)	
	2	52	29	26	22	55	1.4	Red Brown GRAVEL and silty SAND to 2.5', then Brown SAND and GRAVEL, trace to little silt (Dry - Very Compact)	Augered through or past boulder @ 9' - 10'.
5	3	17	23	24	52	47	1.6	- Similar; Gray Brown (Dry - Compact)	Becomes less coarse thereafter.
	4	18	19	17	18	36	1.7	Brown Gray fine to coarse SAND, Some Gravel, trace silt	
	5	13	17	100/.2	-	-	0.8	Brown Gray SAND and GRAVEL, trace silt (Dry - Very Compact)	
10	6	21	100/.3	-	-	-	0.7	- Similar; becomes Reddish Brown	3" flushjoint casing installed to 33.5'; cleaned out with 2-15/16" roller-bit to 33.5'.
15	7	20	15	18	27	33	1.7	Brown fine to coarse SAND, little gravel and silt (Damp to Moist - Compact)	
20	8	19	13	14	16	27	1.6	- Similar; grades to Some Silt (Moist - Firm)	Driller notes change to hard augering @ 22.5' and auger refusal @ 33.5'.
								USCS: SM-GM +/- 24.0'	
25	9	40	24	31	38	55	1.8	Brown TILL: Reddish Brown SILT and fine SAND with embedded coarser sand, occasional gravel and rock fragments. (Moist - Very Compact)	Water level at 36.8' upon completion of rock coring, hole open to 38.5'.
30	10	65	31	45	50	76	1.6	TILL: Reddish Light Brown fine SAND and SILT, intermixed with coarser sand, gravel, rock fragments (Damp - Very Compact)	Hole backfilled w/ bentonite chips 38.5' to 33.5', then tremie grout w/ bentonite slurry to surface.
	11	100/.1	-	-	-	-	<0.1	Rock fragments in shoe (sandstone) (Dry - Very Compact)	Hole is dry before coring NQ Core Run
35								Gray SANDSTONE, medium hard to hard, weathered, thin bedded to bedded, occasional medium to high angle fractures noted with reddish clayey soil (thin seams) at	Run #1: 33.5' - 38.5' REC = 92% (4.6') RQD = 25% (1.25')
40								End of Boring @ 38.5'	

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW

CLASSIFICATION: Visual by Geotechnical Engineer

DRILLER: Tom Farrell DRILL RIG TYPE: CME 550x

METHOD OF INVESTIGATION: 4 1/4" Hollow Stem Augers, 3" (NW) Casing w/Diamond Bit, 2-15/16" Roller Bit, and NQ Dual Tube Core Barrel

All recovered samples will be retained for approximately sixty (60) days, at which time the samples will be discarded unless directed otherwise.

DATE:
START 9/17/2008
FINISH 9/17/2008

SHEET 1 OF 1

SJB SERVICES, INC.
SUBSURFACE LOG

PROJ. NO. AD-08-051
HOLE NO. **B-6**
SURF. ELEV. 1931.29'
G.W. DEPTH See Below

PROJECT: Subsurface Investigation
Belleayre UMP

LOCATION: Town of Shandaken
Ulster County, New York

DEPTH (ft.)	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	REC. (ft.)	SOIL OR ROCK CLASSIFICATION	NOTES
	1	4	6	9	21	15	1.7	TOPSOIL +/- 0.4'	Driller reports auger refusal
								Brown SAND and GRAVEL, little silt, cobble pcs., fill? (Damp - Firm)	at 23.8'. 3" flushjoint
	2	19	34	28	30	62	1.8	Gray Brown fine to coarse SAND and cobble/boulder	casing installed to 23.8';
								fragments @ 2.5' (Dry - Very Compact)	2-15/16" roller-bit to 24.5'.
5	3	20	23	27	31	50	1.7	Brown SAND and GRAVEL, little silt	
								(Moist - Compact)	No measureable ground-
	4	35	29	30	33	59	1.9	- Similar; very compact	water in hole prior to
	5	17	36	33	30	69	1.6	- Similar; grades to little to some silt	
10									Water level at 22.5' upon
	6	16	22	27	40	49	1.5	Brown fine to coarse SAND, little gravel and silt	completion of coring,
								(Moist - Compact)	hole open to 29.5'.
15	7	15	10	13	15	23	1.7	- Similar; grades to some Gravel	
								(Moist - Firm)	
								USCS: SM-GM +/- 19'	
20	8	21	37	36	34	73	1.8	TILL: Reddish Brown fine SAND and SILT intermixed with	
								coarser sand, gravel, rock fragments	
								(Damp - Very Compact)	
	9	50/.0	-	-	-	-	0.0	- No Recovery +/- 24.5'	
25								Gray SANDSTONE, medium hard to hard, lightly weathered,	NQ Core
								thin bedded to bedded, near vertical fractures noted	Run #1: 24.5' - 29.5'
								from 26.5' to 27.5'.	REC = 92% (4.6')
									RQD = 69% (3.45')
30								End of Boring @ 29.5'	
									Hole backfilled w/ bentonite chips 29.5' to 24.5', then tremie grout w/ bentonite slurry to surface.
35									
40									

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW

CLASSIFICATION: Visual by Geotechnical Engineer

DRILLER: Tom Farrell DRILL RIG TYPE: CME 550x

METHOD OF INVESTIGATION: 4 1/4" Hollow Stem Augers, 2-15/16" Rollerbit, NQ Core

All recovered samples will be retained for approximately sixty (60) days, at which time the samples will be discarded unless directed otherwise.

DATE:
START 9/22/2008
FINISH 9/22/2008

SHEET 1 OF 1

SJB SERVICES, INC.
SUBSURFACE LOG

PROJ. NO. AD-08-051
HOLE NO. B-7
SURF. ELEV. 1926.90'
G.W. DEPTH See Below

PROJECT: Subsurface Investigation
Belleayre UMP

LOCATION: Town of Shandaken
Ulster County, New York

DEPTH (ft.)	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	REC. (ft.)	SOIL OR ROCK CLASSIFICATION	NOTES
									Driller reports coarse augering from surface, ground up till in cuttings at 20'. Becomes very hard augering at 24'.
5									Driller reports auger refusal at 25'. No measureable ground-water in augers prior to coring.
10	1	22	27	31	38	58	1.8	Brown fine to coarse SAND, Some Gravel, little silt (Damp - Very Compact) USCS: SM-GM	Falling head permeability test performed at 12.5'
15									
20								+/- 20'	
25								+/- 25.0' Gray SANDSTONE, medium hard to hard, lightly weathered to weathered at lower end of run, then soil seams noted at fracture noted at approximately 27'.	NQ Core Run #1: 25' - 30' REC = 100% (5.0') RQD = 62% (3.1')
30								End of Boring @ 30.0'	Water level at 22.0' upon completion of coring.
35									Hole backfilled w/ bentonite chips 30.0' to 24.0', then tremie grout w/ bentonite slurry to surface.
40									

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW

CLASSIFICATION: Visual by Geotechnical Engineer

DRILLER: Tom Farrell

DRILL RIG TYPE: CME 550x

METHOD OF INVESTIGATION: 4 1/4" Hollow Stem Augers, 3" FJ Casing, NQ Core

All recovered samples will be retained for approximately sixty (60) days, at which time the samples will be discarded unless directed otherwise.