



SUBSURFACE BORING LOG

AET JOB NO: **22-02681** LOG OF BORING NO. **B-101 (p. 1 of 1)**
 PROJECT: **CSAH 101 Minnetonka Side Streets; Minnetonka, MN**
 SURFACE ELEVATION: **899.2** Hennepin Co. Coordinates: **N 137971.735 E 466507.281**

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS					
							WC	DEN	LL	PL	%-#200	
1	7.75" Bituminous pavement	FILL	50/.5*	F	SS	8	14					
2	FILL, mostly sandy lean clay with gravel, brown, frozen to 4' (A-6)											
3												
4	SANDY LEAN CLAY, a little gravel, brown, a little gray, very stiff, laminations of sandy silt (CL) (A-6)	TILL	19	M	SS	14	19					
5												
6												
7												
8												
9												
10	CLAYEY SAND, light brown and dark brown, very stiff, laminations of sandy silt and silty sand (SC) (A-6)	15	M/W	SS	8	12						
11	CLAYEY SAND, a little gravel, brown, stiff (SC) (A-2-6)											
12		16	M	SS	18	14						
13	SANDY LEAN CLAY, a little gravel, gray, a little brown, very stiff, laminations of silty sand (CL) (A-6)											
14												
15												
16	END OF BORING <i>*Blow counts influenced by frost</i>											

DEPTH: 0-14½'	DRILLING METHOD: 3.25" HSA	WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE: 2/6/14	TIME: 11:10	SAMPLED DEPTH: 16.0	CASING DEPTH: 14.5	CAVE-IN DEPTH: 15.7	DRILLING FLUID LEVEL:	WATER LEVEL: None	
BORING COMPLETED: 2/6/14									
DR: SG	LG: CD	Rig: 91C							

AET_CORP W-COORDINATES 22-02681.GPJ AET+CPT+WELL.GDT 3/5/14



SUBSURFACE BORING LOG

AET JOB NO: **22-02681** LOG OF BORING NO. **B-102 (p. 1 of 1)**
 PROJECT: **CSAH 101 Minnetonka Side Streets; Minnetonka, MN**
 SURFACE ELEVATION: **910.7** Hennepin Co. Coordinates: **N 137685.532 E 466664.578**

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS								
							WC	DEN	LL	PL	%#200				
1	7.75" Bituminous pavement	FILL													
2	FILL, mostly lean clay with sand, a little gravel, brown, frozen (A-6)						18								
3	SANDY LEAN CLAY, a little gravel, brown, frozen to 4' (CL) (A-6) (possible fill)	TILL OR FILL					22								
4															
5	LEAN CLAY, brown and light brown, stiff, laminations of silty sand (CL) (A-6)	FINE ALLUVIUM	11	M	SS	8	22								
6															
7	SANDY LEAN CLAY, a little gravel, brown, a little light brown, firm to very stiff, laminations of silt and lean clay (CL) (A-6)	TILL	8	M	SS	6	23								
8															
9															
10			20	M	SS	16	17								
11															
12	CLAYEY SAND, a little gravel, brown, very stiff, laminations of silty sand (SC) (A-2-6)		27	M	SS	14	16								
13															
14															
15			24	M	SS	16	20								
16	END OF BORING														

DEPTH: 0-14½'	DRILLING METHOD: 3.25" HSA	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
		2/6/14	12:02	16.0	14.5	15.9			None
BORING COMPLETED: 2/6/14									
DR: SG	LG: CD	Rig: 91C							

AET_CORP W-COORDINATES 22-02681.GPJ AET+CPT+WELL.GDT 3/5/14



SUBSURFACE BORING LOG

AET JOB NO: **22-02681** LOG OF BORING NO. **B-103 (p. 1 of 1)**
 PROJECT: **CSAH 101 Minnetonka Side Streets; Minnetonka, MN**
 SURFACE ELEVATION: **922.4** Hennepin Co. Coordinates: **N 137762.266 E 467177.929**

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	%-#200
1	5.5" Bituminous pavement FILL, mostly clayey sand, a little gravel, brown, frozen (A-6)	FILL					14				
2	SANDY LEAN CLAY, a little gravel, brown, frozen to 4' (CL) (A-6)	TILL					20				
5	CLAYEY SAND, a little gravel, brown, stiff, laminations of silty sand (SC) (A-6)		12	M	SS	10	18				
7	SANDY LEAN CLAY, a little gravel, brown, stiff (CL) (A-6)		9	W	SS	12	27				
10	SANDY LEAN CLAY, a little gravel, grayish brown, a little brown, very stiff, laminations of sandy silt and silty sand (CL) (A-6)		21	M	SS	14	16				
13			19	M	SS	12	17				
15			26	M	SS	14	18				
16	END OF BORING										

DEPTH: 0-14½'	DRILLING METHOD: 3.25" HSA	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE: 2/6/14	TIME: 1:14	SAMPLED DEPTH: 16.0	CASING DEPTH: 14.5	CAVE-IN DEPTH: 15.7	DRILLING FLUID LEVEL		WATER LEVEL: None
BORING COMPLETED: 2/6/14									
DR: SG LG: CD Rig: 91C									

AET_CORP W-COORDINATES 22-02681.GPJ AET+CPT+WELL.GDT 3/5/14



SUBSURFACE BORING LOG

AET JOB NO: **22-02681** LOG OF BORING NO. **B-104 (p. 1 of 1)**
 PROJECT: **CSAH 101 Minnetonka Side Streets; Minnetonka, MN**
 SURFACE ELEVATION: **923.8** Hennepin Co. Coordinates: **N 138096.684 E 467205.404**

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS								
							WC	DEN	LL	PL	%-#200				
1	8" Bituminous pavement	FILL													
2	FILL, mostly silty sand, a little gravel and clayey sand, brown, frozen	TILL OR FILL													
3	SANDY LEAN CLAY, a little gravel, brown, frozen to 4' (CL) (A-6) (possible fill)														
4															
5	SILTY SAND, a little gravel, fine grained, light brown, moist, medium dense, laminations of lean clay (SM) (A-2-4) (possible fill)	COARSE ALLUVIUM OR FILL	19	M	SS	12									
6															
7	CLAYEY SAND, a little gravel, brown, a little dark brown, very stiff to stiff, laminations of sandy silt (SC) (A-6)	TILL	18	M	SS	10	15								
8															
9															
10			14	M	SS	14	18								
11															
12	SILTY SAND, a little gravel, brown, a little gray, medium dense, lenses and laminations of sand with silt (SM)	COARSE ALLUVIUM	25	M	SS	16									
13	SAND WITH SILT AND GRAVEL, fine to medium grained, light brown, moist, medium dense (SP-SM) (A-1-b)														
14															
15			19	M	SS	12									
16	END OF BORING														

DEPTH: 0-14½'	DRILLING METHOD: 3.25" HSA	WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE: 2/6/14	TIME: 2:00	SAMPLED DEPTH: 16.0	CASING DEPTH: 14.5	CAVE-IN DEPTH: 15.8	DRILLING FLUID LEVEL:	WATER LEVEL: None	
BORING COMPLETED: 2/6/14									
DR: SG	LG: CD	Rig: 91C							

AET_CORP W-COORDINATES 22-02681.GPJ AET+CPT+WELL.GDT 3/5/14



SUBSURFACE BORING LOG

AET JOB NO: **22-02681** LOG OF BORING NO. **B-105 (p. 1 of 1)**
 PROJECT: **CSAH 101 Minnetonka Side Streets; Minnetonka, MN**
 SURFACE ELEVATION: **901.1** Hennepin Co. Coordinates: **N 138430.308 E 467184.737**

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS								
							WC	DEN	LL	PL	%#200				
1	6.25" Bituminous pavement	FILL													
1	FILL, mostly gravelly silty sand, brown, frozen (A-1-b)	TILL OR FILL													
2	CLAYEY SAND, a little gravel, brown, frozen to 4' (SC) (A-6) (possible fill)														
3															
4															
5	CLAYEY SAND, a little gravel, brown, a little gray, stiff, laminations of silty sand (SC) (A-6) (possible fill)		9	M	SS	8									
6															
7	SANDY LEAN CLAY, a little gravel, gray, a little dark gray, stiff (CL) (A-6) (possible fill)	TILL													
8			13	M	SS	8									
9															
10			15	M	SS	16									
11															
12	CLAYEY SAND WITH GRAVEL, brown and dark brown, stiff (SC) (A-1-b)														
13	SANDY LEAN CLAY, a little gravel, brown, a little gray, stiff (CL) (A-6)		14	M	SS	12									
14															
15	SANDY LEAN CLAY, a little gravel, brown, stiff (CL) (A-6)		15	M	SS	16									
16	END OF BORING														

DEPTH: 0-14½'	DRILLING METHOD: 3.25" HSA	WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
		2/6/14	2:40	16.0	14.5	15.9		None	
BORING COMPLETED: 2/6/14									
DR: SG	LG: CD	Rig: 91C							

AET_CORP W-COORDINATES 22-02681.GPJ AET+CPT+WELL.GDT 3/5/14



SUBSURFACE BORING LOG

AET JOB NO: **22-02681** LOG OF BORING NO. **B-106 (p. 1 of 1)**
 PROJECT: **CSAH 101 Minnetonka Side Streets; Minnetonka, MN**
 SURFACE ELEVATION: **909.2** Hennepin Co. Coordinates: **N 138709.557 E 467013.146**

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS								
							WC	DEN	LL	PL	%#200				
1	9" Bituminous pavement	FILL													
2	FILL, mostly silty sand with gravel, a little clayey sand, brown, frozen (A-1-b)														
3	FILL, mostly clayey sand, a little gravel, brown, frozen to 4' (A-6)							15							
4															
5	CLAYEY SAND, a little gravel, brown, stiff (SC) (A-6)	TILL	13	M	SS	10	15								
6															
7	SAND WITH SILT, fine to medium grained, brown, a little gray, moist, loose, lenses and laminations of silt and lean clay (SP-SM) (A-2-4)	COARSE ALLUVIUM	9	M	SS	10									
8															
9	SILTY SAND, a little gravel, brown, loose (SM) (A-2-4)	TILL	10	M	SS	4									
10															
11															
12	SANDY LEAN CLAY, a little gravel, gray, very stiff (CL)		19	M	SS	12	16								
13															
14	LEAN CLAY, gray, very stiff, laminations of silt (CL) (A-6)	FINE ALLUVIUM	16	M	SS	18	28								
15															
16	END OF BORING														

DEPTH: 0-14½'	DRILLING METHOD: 3.25" HSA	WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE: 2/6/14	TIME: 3:20	SAMPLED DEPTH: 16.0	CASING DEPTH: 14.5	CAVE-IN DEPTH: 15.3	DRILLING FLUID LEVEL:	WATER LEVEL: None	
BORING COMPLETED: 2/6/14									
DR: SG	LG: CD	Rig: 91C							

AET_CORP W-COORDINATES 22-02681.GPJ AET+CPT+WELL.GDT 3/5/14



SUBSURFACE BORING LOG

AET JOB NO: **22-02681** LOG OF BORING NO. **B-107 (p. 1 of 1)**
 PROJECT: **CSAH 101 Minnetonka Side Streets; Minnetonka, MN**
 SURFACE ELEVATION: **916.6** Hennepin Co. Coordinates: **N 139017.868 E 467017.296**

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS							
							WC	DEN	LL	PL	%#200			
1	8.25" Bituminous pavement	FILL												
2	FILL, mostly gravelly silty sand, brown, frozen (A-1-b)													
3	FILL, mostly clayey sand, a little gravel, brown, frozen to 4' (A-2-6)													
4														
5	CLAYEY SAND, a little gravel, grayish brown, very stiff, laminations of silty sand (SC) (A-6)	TILL	23	M	SS	16	14							
6														
7														
8				26	M	SS	16	17						
9														
10				26	M	SS	16	16						
11														
12	CLAYEY SAND, a little gravel, brownish gray to gray, very stiff (SC) (A-6)	TILL	25	M	SS	18	15							
13														
14														
15				17	M	SS	16	16						
16	END OF BORING													

DEPTH: 0-14½'	DRILLING METHOD: 3.25" HSA	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
		2/7/14	12:45	16.0	14.5	15.2			None
BORING COMPLETED: 2/7/14									
DR: SG	LG: MF	Rig: 85							

AET_CORP W-COORDINATES 22-02681.GPJ AET+CPT+WELL.GDT 3/5/14



SUBSURFACE BORING LOG

AET JOB NO: **22-02681** LOG OF BORING NO. **B-108 (p. 1 of 1)**
 PROJECT: **CSAH 101 Minnetonka Side Streets; Minnetonka, MN**
 SURFACE ELEVATION: **902.2** Hennepin Co. Coordinates: **N 138857.687 E 467255.543**

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS							
							WC	DEN	LL	PL	%-#200			
1	8.75" Bituminous pavement	FILL												
2	FILL, mostly gravelly silty sand, light brown, frozen (A-1-b)				F									
3	FILL, mostly sandy lean clay, a little gravel, brown, frozen to 4' (A-6)			F										
4														
5	SANDY LEAN CLAY, a little gravel, brown mottled, a little light gray, very stiff, laminations of sandy silt (CL) (A-6)	TILL	17	M	SS	16	16							
6														
7														
8			20	M	SS	18	17							
9														
10														
11			15	M	SS	16	17							
12	SILTY SAND, a little gravel, fine grained, brown, moist, medium dense (SM) (A-2-4)	COARSE ALLUVIUM	28	M	SS	10								
13														
14	SILTY SAND WITH GRAVEL, fine to medium grained, brown, wet, medium dense (SM) (A-1-b)		25	M	SS	12								
15														
16	END OF BORING													

DEPTH: 0-14½'	DRILLING METHOD: 3.25" HSA	WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
		2/7/14	1:55	16.0	14.5	15.2		14.7	
BORING COMPLETED: 2/7/14									
DR: SG LG: MF Rig: 85									

AET_CORP W-COORDINATES 22-02681.GPJ AET+CPT+WELL.GDT 3/5/14



SUBSURFACE BORING LOG

AET JOB NO: **22-02681** LOG OF BORING NO. **B-109 (p. 1 of 1)**
 PROJECT: **CSAH 101 Minnetonka Side Streets; Minnetonka, MN**
 SURFACE ELEVATION: **905.8** Hennepin Co. Coordinates: **N 139107.139 E 467424.981**

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS								
							WC	DEN	LL	PL	%#200				
1	8" Bituminous pavement	FILL													
2	FILL, mostly silty sand with gravel, a little clayey sand, brown, frozen														
3	FILL, mostly clayey sand, a little gravel, brown, frozen to 4' (A-6)														
4															
5	CLAYEY SAND, a little gravel, possible cobbles around 7'-8.5', brown, very stiff, laminations of silty sand (SC) (A-6)	TILL	27	M	SS	16	11								
6															
7															
8				26	M	SS	2	11							
9															
10	SILTY SAND, a little gravel, brown, medium dense (SM/SC) (A-2-4)	TILL	22	M	SS	16									
11															
12															
13				18	M	SS	16								
14															
15				12	M	SS	16								
16	END OF BORING														

DEPTH: 0-14½'	DRILLING METHOD: 3.25" HSA	WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
		2/7/14	2:50	16.0	14.5	15.4		None	
BORING COMPLETED: 2/7/14									
DR: SG	LG: MF	Rig: 85							

AET_CORP W-COORDINATES 22-02681.GPJ AET+CPT+WELL.GDT 3/5/14



SUBSURFACE BORING LOG

AET JOB NO: **22-02681** LOG OF BORING NO. **B-110 (p. 1 of 1)**
 PROJECT: **CSAH 101 Minnetonka Side Streets; Minnetonka, MN**
 SURFACE ELEVATION: **912.2** Hennepin Co. Coordinates: **N 139304.338 E 467307.619**

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS								
							WC	DEN	LL	PL	%-#200				
1	8.25" Bituminous pavement	FILL			SU										
2	FILL, mostly silty sand with gravel, brown, frozen (A-1-b)				F	SU									
3	FILL, mostly sandy lean clay, a little gravel, dark brown, frozen (A-6)				F	SU	15								
4															
5			28*	F/M	SS	6	20								
6															
7	SANDY LEAN CLAY, a little gravel, gray and brown mottled, firm (CL) (A-6)	TILL													
8			8	M	SS	12	21								
9															
10				7	M	SS	14	20							
11															
12	CLAYEY SAND, a little gavel, brown and gray mottled, a little dark brown, stiff to firm, laminations of silty sand (SC) (A-6)														
13			10	M	SS	12	14								
14															
15			7	M	SS	12	17								
16	END OF BORING <i>*Blow counts influenced by frost</i>														

DEPTH: 0-14½'	DRILLING METHOD: 3.25" HSA	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
		2/10/14	9:48	16.0	14.5	15.1			None
BORING COMPLETED: 2/10/14									
DR: SG	LG: TM	Rig: 91C							

AET_CORP W-COORDINATES 22-02681.GPJ AET+CPT+WELL.GDT 3/5/14



SUBSURFACE BORING LOG

AET JOB NO: **22-02681** LOG OF BORING NO. **B-111 (p. 1 of 1)**
 PROJECT: **CSAH 101 Minnetonka Side Streets; Minnetonka, MN**
 SURFACE ELEVATION: **922.9** Hennepin Co. Coordinates: **N 139310.235 E 466965.549**

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS								
							WC	DEN	LL	PL	%-#200				
1	8.5" Bituminous pavement	FILL													
2	11.5" FILL, crushed limestone base, light brown, frozen (A-1-b)				F	SU		15							
3	FILL, mostly sandy lean clay, a little gravel, brown, frozen (A-6)														
4					F/M	SU		17							
5	CLAYEY SAND, a little gravel, brown and grayish brown mottled, a little light brown, very stiff, laminations of sandy silt and silty sand (SC) (A-6)	TILL	19		M	SS	12	14							
6															
7															
8					23		M	SS	14	16					
9															
10															
11															
12															
13															
14															
15															
16															
16	END OF BORING														

DEPTH: 0-14½'	DRILLING METHOD: 3.25" HSA	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
		2/10/14	10:35	16.0	14.5	15.3			None
BORING COMPLETED: 2/10/14									
DR: SG	LG: TM	Rig: 91C							

AET_CORP W-COORDINATES 22-02681.GPJ AET+CPT+WELL.GDT 3/5/14



SUBSURFACE BORING LOG

AET JOB NO: **22-02681** LOG OF BORING NO. **B-112 (p. 1 of 1)**
 PROJECT: **CSAH 101 Minnetonka Side Streets; Minnetonka, MN**
 SURFACE ELEVATION: **930.0** Hennepin Co. Coordinates: **N 139300.294 E 466701.875**

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS								
							WC	DEN	LL	PL	%#200				
1	9.75" Bituminous pavement	FILL			SU										
2	20.25" Crushed limestone base, light brown, frozen		F		SU										
3	FILL, mostly sandy lean clay, a little gravel, brown, frozen (A-6)		F		SU	18									
4	CLAYEY SAND, a little gravel, brown, a little brownish gray, frozen to 5.5' then firm to very stiff, laminations of silty sand (SC) (A-6)	TILL	20*	F/M	SS	12	15								
5															
6															
7					7	M	SS	6	16						
8															
9															
10			19	M	SS	14	15								
11															
12															
13			28	M	SS	14	15								
14															
15			26		SS	NR									
16	END OF BORING <i>*Blow counts influenced by frost</i>														

DEPTH: 0-14½'	DRILLING METHOD: 3.25" HSA	WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
		2/10/14	11:17	16.0	14.5	14.5		None	
BORING COMPLETED: 2/10/14									
DR: SG LG: TM Rig: 91C									

AET_CORP W-COORDINATES 22-02681.GPJ AET+CPT+WELL.GDT 3/5/14



SUBSURFACE BORING LOG

AET JOB NO: **22-02681** LOG OF BORING NO. **B-113 (p. 1 of 1)**
 PROJECT: **CSAH 101 Minnetonka Side Streets; Minnetonka, MN**
 SURFACE ELEVATION: **940.6** Hennepin Co. Coordinates: **N 140825.713 E 467817.22**

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS								
							WC	DEN	LL	PL	%-#200				
1	5" Bituminous pavement	FILL			SU										
	16" FILL, crushed limestone base, light brown, frozen (A-1-b)				F	SU									
2	FILL, mostly silty sand, a little gravel, dark brown, frozen (A-2-4)														
3					F	SU									
4															
5	FILL, mixture of silty sand and clayey sand, brown, dark brown and gray, frozen to 6' (A-2-6)	COARSE ALLUVIUM	70*		F	SS	12	9							
6															
7															
8				18		M	SS	14	14						
9															
10	SAND WITH SILT AND GRAVEL, fine to medium grained, light brown, moist, loose to medium dense (SP-SM) (A-1-b)			8		M	SS	12							
11															
12															
13			21		M	SS	12								
14															
15			27		M	SS	12								
16	END OF BORING <i>*Blow counts influenced by frost</i>														

DEPTH: 0-14½'	DRILLING METHOD: 3.25" HSA	WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
		2/10/14	1:22	16.0	14.5	15.7		None	
BORING COMPLETED: 2/10/14									
DR: SG	LG: TM	Rig: 91C							

AET_CORP W-COORDINATES 22-02681.GPJ AET+CPT+WELL.GDT 3/5/14



SUBSURFACE BORING LOG

AET JOB NO: **22-02681** LOG OF BORING NO. **B-114 (p. 1 of 1)**
 PROJECT: **CSAH 101 Minnetonka Side Streets; Minnetonka, MN**
 SURFACE ELEVATION: **949.2** Hennepin Co. Coordinates: **N 140460.219 E 466802.458**

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS							
							WC	DEN	LL	PL	%#200			
1	7" Bituminous pavement	FILL												
1	FILL, mostly silty sand, a little gravel, brown, frozen (A-2-4)													
2	LEAN CLAY, light brown, frozen to 3.5' (CL) (A-6)	FINE ALLUVIUM	47*	F	SS	18	27							
3														
4	LEAN CLAY, light brown and brown, stiff, laminations of silty sand (CL) (A-6)													
5														
6			11	M	SS	17	14							
7	SILTY SAND, a little gravel, light brown, a little dark brown, medium dense, laminations of sandy silt (SM) (A-2-4)		20	M	SS	14								
8														
9	SILTY SAND, a little gravel, light brown, medium dense (SM) (A-2-4)		18	M	SS	15								
10														
11														
12	CLAYEY SAND, a little gravel, grayish brown, very stiff, laminations of silty sand (SC) (A-2-6)	TILL	26	M	SS	16	8							
13														
14														
15	SILTY SAND, a little gravel, brown, medium dense (SM) (A-2-4)		21	M	SS	16								
16	END OF BORING <i>*Blow counts influenced by frost</i>													

DEPTH: 0-14½'	DRILLING METHOD: 3.25" HSA	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE: 1/24/14	TIME: 1:20	SAMPLED DEPTH: 16.0	CASING DEPTH: 14.5	CAVE-IN DEPTH: 15.9	DRILLING FLUID LEVEL		WATER LEVEL: None
BORING COMPLETED: 1/24/14									
DR: SG	LG: SB	Rig: 91C							

AET_CORP W-COORDINATES 22-02681.GPJ AET+CPT+WELL.GDT 3/5/14



SUBSURFACE BORING LOG

AET JOB NO: **22-02681** LOG OF BORING NO. **B-115 (p. 1 of 1)**
 PROJECT: **CSAH 101 Minnetonka Side Streets; Minnetonka, MN**
 SURFACE ELEVATION: **910.2** Hennepin Co. Coordinates: **N 141685.283 E 468465.126**

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS								
							WC	DEN	LL	PL	%#200				
1	12" Bituminous pavement	FILL													
2	6" FILL, crushed limestone base, frozen (A-1-b)				F	SU									
3	FILL, mostly clayey sand, brownish gray, frozen to 4' (A-2-6)				F/M	SU	18								
4															
5	CLAYEY SAND, a little gravel, brown, a little gray mottled, firm (SC) (A-6)	TILL	7		M	SS	14	15							
6															
7															
8				7		M	SS	16	17						
9															
10	CLAYEY SAND, a little gravel, gray to gray and brown mottled, firm (SC) (A-6)			8		M	SS	16	15						
11															
12															
13			6		M	SS	15	13							
14															
15			8		W	SS	17	11							
16	END OF BORING														

DEPTH: 0-14½'	DRILLING METHOD: 3.25" HSA	WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
		2/11/14	11:45	16.0	14.5	14.5		9.0	
BORING COMPLETED: 2/11/14									
DR: SG	LG: SB	Rig: 91C							

AET_CORP_W-COORDINATES 22-02681.GPJ AET+CPT+WELL.GDT 3/5/14



SUBSURFACE BORING LOG

AET JOB NO: **22-02681** LOG OF BORING NO. **B-116 (p. 1 of 1)**
 PROJECT: **CSAH 101 Minnetonka Side Streets; Minnetonka, MN**
 SURFACE ELEVATION: **927.6** Hennepin Co. Coordinates: **N 143337.64 E 468157.489**

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	%#200
1	10" Bituminous pavement	FILL		F	SU						
2	FILL, mostly silty sand, a little gravel, brown, frozen (A-2-4)				F	SU					
3											
4											
5	FILL, mostly silty sand, a little gravel, brown, frozen (A-2-4)		8	F/M	SS	12					
6											
7											
8			4	M	SS	16					
9	FILL, mostly silty sand, a little gravel, dark brown and brown (A-2-4)										
10			11	M	SS	15					
11											
12											
13			5	M	SS	14					
14											
15			14	M	SS	16					
16											
17	FILL, mixture of silty sand, clayey sand and sandy lean clay, a little gravel, dark brown, brown and gray (A-2-6)		13	M	SS	17	17				
18											
19	LEAN CLAY, light gray, brown and dark brown, stiff, laminations of silt, silty sand and clayey sand (CL) (A-6) (possible fill)	FINE ALLUVIUM OR FILL	9	M	SS	18	28				
20											
21	END OF BORING										

DEPTH: 0-19½'	DRILLING METHOD: 3.25" HSA	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
		2/13/14	11:20	21.0	19.5	19.5			None
BORING COMPLETED: 2/13/14									
DR: SG	LG: TM	Rig: 91C							

AET_CORP W-COORDINATES 22-02681.GPJ AET+CPT+WELL.GDT 3/5/14



SUBSURFACE BORING LOG

AET JOB NO: **22-02681** LOG OF BORING NO. **B-117 (p. 1 of 1)**
 PROJECT: **CSAH 101 Minnetonka Side Streets; Minnetonka, MN**
 SURFACE ELEVATION: **929.0** Hennepin Co. Coordinates: **N 143527.612 E 467899.245**

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS							
							WC	DEN	LL	PL	%-#200			
1	8" Bituminous pavement	FILL			F	SU								
2	FILL, mostly silty sand, a little gravel, dark brown, frozen (A-1-b)				F	SU								
3	FILL, mostly sand with silt, light brown, frozen to 4' (A-3)				F	SU								
4														
5	FILL, mostly sand with silt, a little gravel, light brown (A-1-b)	TILL	18		M	SS	12							
6														
7														
8				15		M	SS	14						
9														
10	CLAYEY SAND, a little gravel, gray, stiff (SC) (A-6)		14		M	SS	17	13						
11														
12														
13			15		M	SS	12	13						
14														
15	CLAYEY SAND, a little gravel, gray, a little brown, stiff, laminations of silty sand (SC/SM) (A-2-6)		14		M	SS	2							
16	END OF BORING													

DEPTH: 0-14½'	DRILLING METHOD: 3.25" HSA	WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
		2/13/14	12:20	16.0	14.5	14.5		None	
BORING COMPLETED: 2/13/14									
DR: SG	LG: SB	Rig: 91C							

AET_CORP W-COORDINATES 22-02681.GPJ AET+CPT+WELL.GDT 3/5/14



SUBSURFACE BORING LOG

AET JOB NO: **22-02681** LOG OF BORING NO. **B-118 (p. 1 of 1)**
 PROJECT: **CSAH 101 Minnetonka Side Streets; Minnetonka, MN**
 SURFACE ELEVATION: **936.4** Hennepin Co. Coordinates: **N 140325.812 E 466514.664**

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS							
							WC	DEN	LL	PL	%-#200			
1	7" Bituminous pavement	FILL												
1	9" FILL, crushed limestone base, frozen (A-1-b)			F	SU									
2	LEAN CLAY, light brown and brown, frozen to 4' (CL) (A-6)	FINE ALLUVIUM												
3				F/M	SU		30							
4														
5	LEAN CLAY, brown, a little gray and dark brown, stiff to very stiff, laminations of silt and sandy silt (CL) (A-6)		9	M	SS	14	27							
6														
7														
8			16	M	SS	12	27							
9														
10	SILTY SAND, a little gravel, brown and gray, medium dense (SM/SC) (A-2-4)	TILL	29	M	SS	12								
11														
12	CLAYEY SAND, a little gravel, gray, a little brown and dark brown to brown, very stiff, laminations of silty sand (SC) (A-6)		29	M	SS	14	12							
13														
14														
15			20	M	SS	16	11							
16	END OF BORING													

DEPTH: 0-14½'	DRILLING METHOD: 3.25" HSA	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
		2/10/14	12:39	16.0	14.5	14.5			None
BORING COMPLETED: 2/10/14									
DR: SG	LG: TM	Rig: 91C							

AET_CORP W-COORDINATES 22-02681.GPJ AET+CPT+WELL.GDT 3/5/14