



COLEMAN ENGINEERING COMPANY

635 CIRCLE DRIVE
 IRON MOUNTAIN, MICHIGAN 49801
 Telephone: (906)-774-3440 Fax: (906)-774-7776

JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-1

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: Offset 50' S. of stake due to trees - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: M. Lessard / W. Lake

DRILLING METHOD: 5" Solid Stem Auger BORING DEPTH: 10.0

DATE STARTED: 4/9/14 DATE COMPLETED: 4/9/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS													
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4	-4	-200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf)	q _u (tsf)						
1				0	(SP) SAND, brown, fine to coarse, trace silt, trace fine gravel, moist																	
				1																		
				2																		
				3																		
				4																		
				5																		
				6																		
				7																		
				8																		
				9																		
				10																		
				10		End of Boring	10.0'															
				11																		
				12																		
				13																		
				14																		
				15																		
				16																		
				17																		
				18																		
				19																		
				20																		

- AS-Auger Sample
- BS-Bag Sample
- RC-Rock-Core
- GS-Grab Sample
- PS-Piston Tube
- 2SS-2" Split Spoon
- 3SS-3" Split Spoon
- 2ST-2" Shelby Tube
- 3ST-3" Shelby Tube
- while drilling
- after drilling

after _____ hours

BORING NO.:
B-1



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JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-2

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: As staked - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: M. Lessard / W. Lake

DRILLING METHOD: 5" Solid Stem Auger BORING DEPTH: 10.0

DATE STARTED: 4/9/14 DATE COMPLETED: 4/9/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS											
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf) q _u (tsf)							
1				0	LEAF LITTER															
				0.5	(SP) SAND, brown, fine to medium, trace silt, some gravel, moist															
				1																
				2																
				3																
				4																
				5																
				6																
				7																
				8																
				9																
			10	10.0'	End of Boring															
			11																	
			12																	
			13																	
			14																	
			15																	
			16																	
			17																	
			18																	
			19																	
			20																	

- AS-Auger Sample
- BS-Bag Sample
- RC-Rock-Core
- GS-Grab Sample
- PS-Piston Tube
- 2S2" Split Spoon
- 3SS-3" Split Spoon
- 2ST-2" Shelby Tube
- 3ST-3" Shelby Tube
- while drilling
- after drilling

after _____ hours

BORING NO.:
B-2



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JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-3

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: Offset 50' S. of stake due to trees - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: M. Lessard / W. Lake

DRILLING METHOD: 5" Solid Stem Auger BORING DEPTH: 10.0

DATE STARTED: 4/9/14 DATE COMPLETED: 4/9/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS											
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf) q _u (tsf)							
1				0	LEAF LITTER															
				0.5																
				1	(SP) SAND, dark brown, fine to medium, some gravel, trace silt, moist															
				2																
				3																
				4	...gravel seam at ± 4.0'															
				5																
				6																
				7																
				8																
			9																	
			10	10.0'	End of Boring															
			11																	
			12																	
			13																	
			14																	
			15																	
			16																	
			17																	
			18																	
			19																	
			20																	

- AS-Auger Sample -GS-Grab Sample -3SS-3" Split Spoon while drilling
- BS-Bag Sample -PS-Piston Tube -2ST-2" Shelby Tube after drilling
- RC-Rock-Core -2SS-2" Split Spoon -3ST-3" Shelby Tube

after hours BORING NO.:
B-3



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JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-4

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: Offset 25' S. of stake due to trees - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: M. Lessard / W. Lake

DRILLING METHOD: 5" Solid Stem Auger BORING DEPTH: 10.0

DATE STARTED: 4/9/14 DATE COMPLETED: 4/9/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS												
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4	-4	-200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf)	q _u (tsf)					
1				0	LEAF LITTER																
				0.5	(SP) SAND, brown, fine to medium, trace silt, moist																
				1																	
				2																	
				3																	
				4																	
				5																	
				6																	
				7																	
				8		...gravel seam at ± 7.5'															
			9																		
			10		End of Boring																
			11																		
			12																		
			13																		
			14																		
			15																		
			16																		
			17																		
			18																		
			19																		
			20																		

- AS-Auger Sample -GS-Grab Sample -3SS-3" Split Spoon while drilling
- BS-Bag Sample -PS-Piston Tube -2ST-2" Shelby Tube after drilling
- RC-Rock-Core -2SS-2" Split Spoon -3ST-3" Shelby Tube

after _____ hours BORING NO.: **B-4**



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JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-5

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: As staked - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: M. Lessard / W. Lake

DRILLING METHOD: 5" Solid Stem Auger BORING DEPTH: 10.0

DATE STARTED: 4/8/14 DATE COMPLETED: 4/8/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS						
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf) q _u (tsf)		
1				0	LEAF LITTER			Frost 0.4' deep							
				0.5	(SP) SAND, light brown, fine to medium, trace silt, moist										
				1											
				2											
				3											
				4											
				5											
				6											
				7											
				8											
				9											
				10	End of Boring										
				11											
				12											
				13											
				14											
				15											
				16											
				17											
				18											
				19											
				20											

- AS-Auger Sample -GS-Grab Sample -3SS-3" Split Spoon while drilling
- BS-Bag Sample -PS-Piston Tube -2ST-2" Shelby Tube after drilling
- RC-Rock-Core -2SS-2" Split Spoon -3ST-3" Shelby Tube

BORING NO.:
B-5



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JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-6

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: As staked - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: M. Lessard / W. Lake

DRILLING METHOD: 5" Solid Stem Auger BORING DEPTH: 10.0

DATE STARTED: 4/8/14 DATE COMPLETED: 4/8/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS											
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4	-4	-200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf)	q _u (tsf)				
1				0	LEAF LITTER															
				0.5	(SP) SAND, light brown, fine to medium, trace silt, moist															
				1																
				2																
				3																
				4																
				5																
				6																
				7																
				8																
				9																
			10		End of Boring															
			11																	
			12																	
			13																	
			14																	
			15																	
			16																	
			17																	
			18																	
			19																	
			20																	

- AS-Auger Sample
- BS-Bag Sample
- RC-Rock-Core
- GS-Grab Sample
- PS-Piston Tube
- 2SS-2" Split Spoon
- 3SS-3" Split Spoon
- 2ST-2" Shelby Tube
- 3ST-3" Shelby Tube
- while drilling
- after drilling

after hours

BORING NO.:
B-6



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JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-7

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: As staked - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: M. Lessard / J. Edlebeck

DRILLING METHOD: 5" Solid Stem Auger BORING DEPTH: 10.0

DATE STARTED: 4/8/14 DATE COMPLETED: 4/8/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS											
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4	-4	-200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf)	q _u (tsf)				
1				0	LEAF LITTER															
				0.5																
				1	(SP) SAND, light brown, fine to medium, trace silt, moist															
				2																
				3																
				4																
				5																
				6																
				7																
				8																
			9		...some gravel at 9.0'															
			10		End of Boring															
			11																	
			12																	
			13																	
			14																	
			15																	
			16																	
			17																	
			18																	
			19																	
			20																	

- AS-Auger Sample
- BS-Bag Sample
- RC-Rock-Core
- GS-Grab Sample
- PS-Piston Tube
- 2SS-2" Split Spoon
- 3SS-3" Split Spoon
- 2ST-2" Shelby Tube
- 3ST-3" Shelby Tube
- while drilling
- after drilling

after hours

BORING NO.:
B-7



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JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-8

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: Offset 8' S. of stake - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: J. Edlebeck / M. Lessard

DRILLING METHOD: 2" O.D. x 5' Macrocore BORING DEPTH: 6.0

DATE STARTED: 4/7/14 DATE COMPLETED: 4/7/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS					
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf) q _u (tsf)	
1				0	(SP) SAND, dark brown to light brown, fine to coarse, some gravel, trace silt, moist									
				1										
				2										
				3										
				4										
				5										
2				6	Drive Refusal and End of Boring		6.0'							
				7										
				8										
				9										
				10										
				11										
				12										
				13										
				14										
				15										
				16										
				17										
				18										
				19										
				20										

- AS-Auger Sample -GS-Grab Sample -3SS-3" Split Spoon while drilling
- BS-Bag Sample -PS-Piston Tube -2ST-2" Shelby Tube after drilling
- RC-Rock-Core -2SS-2" Split Spoon -3ST-3" Shelby Tube

BORING NO.:
B-8



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JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-9

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: As staked - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: M. Lessard / J. Edlebeck

DRILLING METHOD: 2" O.D. x 5' Macrocore BORING DEPTH: 5.0

DATE STARTED: 4/7/14 DATE COMPLETED: 4/7/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS						
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf) q _u (tsf)		
1				0	TOPSOIL			Driller's note: Very hard driving							
				0.1'											
				1	(SP) SAND, brown, fine to coarse, some gravel, trace silt, moist										
				2											
				3											
				4											
				5	Drive Refusal and End of Boring										
				5.0'											
				6											
				7											
				8											
				9											
				10											
				11											
				12											
				13											
				14											
				15											
				16											
				17											
				18											
				19											
				20											

- AS-Auger Sample -GS-Grab Sample -3SS-3" Split Spoon while drilling
- BS-Bag Sample -PS-Piston Tube -2ST-2" Shelby Tube after drilling
- RC-Rock-Core -2SS-2" Split Spoon -3ST-3" Shelby Tube

BORING NO.:
B-9



COLEMAN ENGINEERING COMPANY

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 Telephone: (906)-774-3440 Fax: (906)-774-7776

JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-10

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: As staked - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: M. Lessard / J. Edlebeck

DRILLING METHOD: 2" O.D. x 5' Macrocore BORING DEPTH: 8.0

DATE STARTED: 4/7/14 DATE COMPLETED: 4/7/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS											
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4	-4	-200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf)	q _u (tsf)				
1				0	LEAF LITTER															
				0.1'	(SP) SAND, light brown, fine to coarse, trace silt															
2				5																
				8	Drive Refusal and End of Boring															
				20																

- AS-Auger Sample -GS-Grab Sample -3SS-3" Split Spoon while drilling
- BS-Bag Sample -PS-Piston Tube -2ST-2" Shelby Tube after drilling
- RC-Rock-Core -2SS-2" Split Spoon -3ST-3" Shelby Tube

BORING NO.:
B-10



COLEMAN ENGINEERING COMPANY

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 Telephone: (906)-774-3440 Fax: (906)-774-7776

JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-12

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: As staked - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: J. Edlebeck / M. Lessard

DRILLING METHOD: 2" O.D. x 5' Macrocore BORING DEPTH: 10.0

DATE STARTED: 4/7/14 DATE COMPLETED: 4/7/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS									
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4	-4	-200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf)	q _u (tsf)		
1				0	TOPSOIL			Driller's note: Hard driving										
				0.5	(SP) SAND, light brown, fine to medium, trace silt, trace gravel, moist													
2				1														
				2														
				3														
				4														
				5														
				6														
				7														
				8														
				9														
				10	End of Boring													
				11														
				12														
				13														
				14														
				15														
				16														
				17														
				18														
				19														
				20														

- AS-Auger Sample -GS-Grab Sample -3SS-3" Split Spoon while drilling
- BS-Bag Sample -PS-Piston Tube -2ST-2" Shelby Tube after drilling
- RC-Rock-Core -2SS-2" Split Spoon -3ST-3" Shelby Tube

BORING NO.: **B-12**



COLEMAN ENGINEERING COMPANY

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JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-13

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: As staked - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: J. Edlebeck / M. Lessard

DRILLING METHOD: 2" O.D. x 5' Macrocore BORING DEPTH: 10.0

DATE STARTED: 4/7/14 DATE COMPLETED: 4/7/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS							
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4	-4	-200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf)	q _u (tsf)
1				0	LEAF LITTER											
								0.3'								
								ORGANIC SAND, dark brown								
								1.1'								
								(SP) SAND, light brown to buff, fine to medium, trace silt, moist								
								2								
								3								
								4								
								5								
2				6												
								7								
								8								
								9								
								10								
								10.0'	End of Boring							
								11								
								12								
								13								
				14												
				15												
				16												
				17												
				18												
				19												
				20												

- AS-Auger Sample -GS-Grab Sample -3SS-3" Split Spoon while drilling
- BS-Bag Sample -PS-Piston Tube -2ST-2" Shelby Tube after drilling
- RC-Rock-Core -2SS-2" Split Spoon -3ST-3" Shelby Tube

after hours

BORING NO.:
B-13



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JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-14

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: As staked - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: M. Lessard / W. Lake

DRILLING METHOD: 5" Solid Stem Auger BORING DEPTH: 10.0

DATE STARTED: 4/9/14 DATE COMPLETED: 4/9/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS											
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4	-4	-200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf)	q _u (tsf)				
1				0	(SP) SAND, brown, fine to medium, some gravel, trace silt, moist															
				1																
				2																
				3																
				4																
				5																
				6																
				7																
				8																
				9																
				10																
				10	End of Boring	10.0'														
				11																
				12																
				13																
				14																
				15																
				16																
				17																
				18																
				19																
				20																

- AS-Auger Sample
- BS-Bag Sample
- RC-Rock-Core
- GS-Grab Sample
- PS-Piston Tube
- 2ST-2" Split Spoon
- 3SS-3" Split Spoon
- 2ST-2" Shelby Tube
- 3ST-3" Shelby Tube
- while drilling
- after drilling

after _____ hours

BORING NO.: **B-14**



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JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-20

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: As staked - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: M. Lessard / W. Lake

DRILLING METHOD: 5" Solid Stem Auger BORING DEPTH: 10.0

DATE STARTED: 4/8/14 DATE COMPLETED: 4/8/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS										
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf) q _u (tsf)						
1				0	(SP) SAND, light brown, fine to medium, trace silt, moist														
				1															
				2															
				3															
				4															
				5															
				6															
				7															
				8															
				9															
				10	...some gravel at ± 9.5'														
				10	End of Boring		10.0'												
				11															
				12															
				13															
				14															
				15															
				16															
				17															
				18															
				19															
				20															

- AS-Auger Sample
- BS-Bag Sample
- RC-Rock-Core
- GS-Grab Sample
- PS-Piston Tube
- 2ST-2" Split Spoon
- 3SS-3" Split Spoon
- 2ST-2" Shelby Tube
- 3ST-3" Shelby Tube
- while drilling
- after drilling

after _____ hours

BORING NO.:
B-20



COLEMAN ENGINEERING COMPANY

635 CIRCLE DRIVE
 IRON MOUNTAIN, MICHIGAN 49801
 Telephone: (906)-774-3440 Fax: (906)-774-7776

JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-21

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: As staked - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: M. Lessard / W. Lake

DRILLING METHOD: 5" Solid Stem Auger BORING DEPTH: 10.0

DATE STARTED: 4/8/14 DATE COMPLETED: 4/8/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS													
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4	-4	-200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf)	q _u (tsf)						
1				0	(SP) SAND, light brown, fine to medium, trace silt, moist																	
				1																		
				2																		
				3																		
				4																		
				5																		
				6																		
				7																		
				8	...some gravel at ± 8.0'																	
				9																		
				10	End of Boring		10.0'															
				11																		
				12																		
				13																		
				14																		
				15																		
				16																		
				17																		
				18																		
				19																		
				20																		

- AS-Auger Sample
- BS-Bag Sample
- RC-Rock-Core
- GS-Grab Sample
- PS-Piston Tube
- 2SS-2" Split Spoon
- 3SS-3" Split Spoon
- 2ST-2" Shelby Tube
- 3ST-3" Shelby Tube
- while drilling
- after drilling

after _____ hours

BORING NO.:
B-21



COLEMAN ENGINEERING COMPANY

635 CIRCLE DRIVE
 IRON MOUNTAIN, MICHIGAN 49801
 Telephone: (906)-774-3440 Fax: (906)-774-7776

JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-25

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: As staked - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: M. Lessard / W. Lake

DRILLING METHOD: 5" Solid Stem Auger BORING DEPTH: 10.0

DATE STARTED: 4/8/14 DATE COMPLETED: 4/8/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS										
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf) q _u (tsf)						
1				0	LEAF LITTER														
				0.5	(SP) SAND, light brown, fine to medium, trace silt, moist														
				1															
				2															
				3															
				4															
				5															
				6															
				7															
				8															
				9															
			10	10.0'	End of Boring														
			11																
			12																
			13																
			14																
			15																
			16																
			17																
			18																
			19																
			20																

- AS-Auger Sample -GS-Grab Sample -3SS-3" Split Spoon while drilling
- BS-Bag Sample -PS-Piston Tube -2ST-2" Shelby Tube after drilling
- RC-Rock-Core -2SS-2" Split Spoon -3ST-3" Shelby Tube

BORING NO.: **B-25**



COLEMAN ENGINEERING COMPANY

635 CIRCLE DRIVE
 IRON MOUNTAIN, MICHIGAN 49801
 Telephone: (906)-774-3440 Fax: (906)-774-7776

JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-26

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: As staked - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: M. Lessard / W. Lake

DRILLING METHOD: 5" Solid Stem Auger BORING DEPTH: 10.0

DATE STARTED: 4/8/14 DATE COMPLETED: 4/8/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS											
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf) q _u (tsf)							
1				0	LEAF LITTER															
				0.5	(SP) SAND, light brown, fine to medium, trace silt, moist															
				1																
				2																
				3																
				4																
				5																
				6																
				7																
				8																
				9																
			10	10.0'	End of Boring															
			11																	
			12																	
			13																	
			14																	
			15																	
			16																	
			17																	
			18																	
			19																	
			20																	

- AS-Auger Sample
- BS-Bag Sample
- RC-Rock-Core
- GS-Grab Sample
- PS-Piston Tube
- 2SS-2" Split Spoon
- 3SS-3" Split Spoon
- 2ST-2" Shelby Tube
- 3ST-3" Shelby Tube
- while drilling
- after drilling

after hours

BORING NO.:
B-26



COLEMAN ENGINEERING COMPANY

635 CIRCLE DRIVE
 IRON MOUNTAIN, MICHIGAN 49801
 Telephone: (906)-774-3440 Fax: (906)-774-7776

JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-27

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: As staked - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: M. Lessard / W. Lake

DRILLING METHOD: 5" Solid Stem Auger BORING DEPTH: 10.0

DATE STARTED: 4/8/14 DATE COMPLETED: 4/8/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS						
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf) q _u (tsf)		
1				0	(SP) SAND, dark brown, fine to medium, trace silt, trace gravel, moist			Frost 0.5' deep							
				1											
				2											
				3											
				4											
				5											
				6											
				7	...some gravel 7.0' to 7.5'										
				8											
				9											
			10	...some gravel 9.5' to 10.0'											
				10.0'	End of Boring										
				11											
				12											
				13											
				14											
				15											
				16											
				17											
				18											
				19											
				20											

- AS-Auger Sample -GS-Grab Sample -3SS-3" Split Spoon while drilling
- BS-Bag Sample -PS-Piston Tube -2ST-2" Shelby Tube after drilling
- RC-Rock-Core -2SS-2" Split Spoon -3ST-3" Shelby Tube

BORING NO.:
B-27



COLEMAN ENGINEERING COMPANY

635 CIRCLE DRIVE
 IRON MOUNTAIN, MICHIGAN 49801
 Telephone: (906)-774-3440 Fax: (906)-774-7776

JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-28

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: As staked - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: M. Lessard / W. Lake

DRILLING METHOD: 5" Solid Stem Auger BORING DEPTH: 10.0

DATE STARTED: 4/9/14 DATE COMPLETED: 4/9/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS													
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4	-4	-200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf)	q _u (tsf)						
1				0	(SP) SAND, light brown, fine to medium, trace silt, moist																	
				1																		
				2																		
				3																		
				4																		
				5																		
				6																		
				7																		
				8																		
				9																		
				10																		
				10		End of Boring	10.0'															
				11																		
				12																		
				13																		
				14																		
				15																		
				16																		
				17																		
				18																		
				19																		
				20																		

- AS-Auger Sample -GS-Grab Sample -3SS-3" Split Spoon while drilling
- BS-Bag Sample -PS-Piston Tube -2ST-2" Shelby Tube after drilling
- RC-Rock-Core -2SS-2" Split Spoon -3ST-3" Shelby Tube

BORING NO.:
B-28



COLEMAN ENGINEERING COMPANY

635 CIRCLE DRIVE
 IRON MOUNTAIN, MICHIGAN 49801
 Telephone: (906)-774-3440 Fax: (906)-774-7776

JOB NO.: 13432.GPJ

PROJECT: Wazee Subdivision BORING NO.: B-29

CLIENT: Ho-Chunk Nation 1 OF 1

BORING LOCATION: As staked - See soil boring location map ELEV.: _____

RIG TYPE: Geoprobe 66DT DRILL CREW: M. Lessard / W. Lake

DRILLING METHOD: 5" Solid Stem Auger BORING DEPTH: 10.0

DATE STARTED: 4/9/14 DATE COMPLETED: 4/9/14 REVIEWED BY: C. Rasmussen DATE: 4/16/14

HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS											
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4	-4	-200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf)	q _u (tsf)				
1				0	LEAF LITTER															
				0.5	(SP) SAND, light brown, fine to medium, trace silt, moist															
				1																
				2																
				3																
				4																
				5																
				6																
				7																
				8																
				9																
			10	10.0'	End of Boring															
			11																	
			12																	
			13																	
			14																	
			15																	
			16																	
			17																	
			18																	
			19																	
			20																	

- AS-Auger Sample
- BS-Bag Sample
- RC-Rock-Core
- GS-Grab Sample
- PS-Piston Tube
- 2SS-2" Split Spoon
- 3SS-3" Split Spoon
- 2ST-2" Shelby Tube
- 3ST-3" Shelby Tube
- while drilling
- after drilling

after hours

BORING NO.:
B-29