




SEDIMENT DESCRIPTION

WGNHS ID 70002293 **Field ID** LL01 **Site Name** WGNHS Central Sands LL01
County Waushara **WUWN** VQ817
Lat 44.20982 **Long** -89.45635 **Elevation** 1110.92 ft **Method** RTK_Offset
Describer S. Dodge **Date** 7/30/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 21 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.7 feet sample recovered)		18-377 X	10 YR 6/4 Light Yellowish Brown	sand & gravel	moderate				Fine-medium sand with gravel, road grade
				10 YR 7/4 Very Pale Brown	medium sand	well				Medium-coarse sand
2			18-378 X	7.5 YR 7/4 Pink to 10 YR 6/4 Light Yellowish Brown	medium sand	moderate	horizontal bedding (>1cm)	Oxidation around gravel		Gravel beds @ 53-60cm, 64-67cm, silt around gravel
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



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Notes Corehole was completed as a monitoring well
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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 3 feet sample recovered)		18-381 X		n/a, Recore, Distortion					Recore, Distortion
7				7.5 YR 7/3 Pink	medium sand	well	horizontal lamination ($<1\text{cm}$)	Oxidation		Coarser sand laminations, coarse sand bed @ 61-67cm, clast @ 76cm
8										
9										
10										

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Drill Method direct push **Total Depth** 21 ft
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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
	Section 3 (10 - 15 feet, 2.9 feet sample recovered)		18-382 X		n/a, Recore					Recore
11				7.5 YR 7/3 Pink	medium sand	well	horizontal bedding (>1cm)		weak	Possible H. bedding of coarser sand: 28cm, 42cm, 46-49cm, 54cm, 75cm, wet core, mild HCl reaction for clasts @ 64-69cm
12										
13			18-383 X							
14										
15										

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County Waushara **WUWN** VQ817
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Describer S. Dodge **Date** 7/30/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 21 ft
Notes Corehole was completed as a monitoring well
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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
	Section 4 (15 - 21 feet, 4.7 feet sample recovered)				n/a, Recore					Recore
16				7.5 YR 6/4 Light Brown	medium sand	well	horizontal lamination (<1cm)			Slight H. laminations, wet core, slightly silty
17										
18			18-384 18-385 18-386	7.5 YR 6/4 Light Brown	medium sand	moderate	horizontal lamination (<1cm)			Medium sand & silty V. F. sand, silty V. F. sand, H. laminations within H. bedding, silt beds @ 84-93cm, 104-129cm, 137-144cm, sand beds @ 93-104cm, 129-137cm
19			18-387 18-388 18-389							
20										End of borehole LL01

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002319 **Field ID** LL01B

County Waushara

Lat 44.20981 **Long** -89.45634

Describer Ana Genthe **Date** 2/13/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands LL01B

WUWN VQ841

Elevation 1110.54 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 52 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
26	Section 2 (25 - 30 feet, 4.8 feet sample recovered)			7.5YR 5/4 Brown	fine sand	well	horizontal lamination ($<1\text{cm}$)	redox laminations	weak	sample collection started at 21 feet, see LL01 for upper intervals.
27										
28										
29										
30										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002319 **Field ID** LL01B

County Waushara

Lat 44.20981 **Long** -89.45634

Describer Ana Genthe **Date** 2/13/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands LL01B

WUWN VQ841

Elevation 1110.54 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 52 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
31	Section 3 (30 - 34 feet, 4.8 feet sample recovered)			7.5YR 5/3 Brown	fine sand	well			weak	
32										
33				7.5YR 5/3 Brown	fine sand	well	horizontal lamination (<1cm)	redox laminations	weak	
34				7.5 YR 4/3 Brown	fine sand	well	horizontal lamination (<1cm)	redox laminations	moderate	Some laminations are distorted
35			19-332 X							

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SEDIMENT DESCRIPTION

WGNHS ID 70002319 **Field ID** LL01B **Site Name** WGNHS Central Sands LL01B
County Waushara **WUWN** VQ841
Lat 44.20981 **Long** -89.45634 **Elevation** 1110.54 ft **Method** RTK
Describer Ana Genthe **Date** 2/13/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 52 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
36	Section 4 (34 - 37 feet, 4.8 feet sample recovered)			7.5 YR 4/3 Brown (continued)	fine sand (continued)	well (continued)	horizontal lamination (<1cm) (continued)	redox laminations (continued)	moderate (continued)	Some laminations are distorted (continued)
37				7.5 YR 4/3 Brown	fine sand	well	horizontal lamination (<1cm)	redox laminations	moderate	intervals of medium grained sand beds at 37cm, 60cm, 91cm, 93cm and 99cm
38										
39	Section 5 (37 - 40 feet, 4.7 feet sample recovered)		19-335 X							
40										

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Site Name WGNHS Central Sands LL01B

County Waushara

WUWN VQ841

Lat 44.20981 **Long** -89.45634

Elevation 1110.54 ft **Method** RTK

Describer Ana Genthe **Date** 2/13/18



Project Central Sands Lakes Study

Drill Method direct push

Total Depth 52 ft

Notes Corehole was completed as a monitoring well

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
41	Section 6 (40 - 42.5 feet, 4.1 feet sample recovered)		19-336	7.5 YR 4/3 Brown (continued) 7.5YR 5/2 Brown	fine sand (continued) fine sand	well (continued) well	horizontal lamination (<1cm) (continued) horizontal lamination (<1cm)	redox laminations (continued) redox laminations	moderate (continued) weak	intervals of medium grained sand beds at 37cm, 60cm, 91cm, 93cm and 99cm (continued)
42										
43	Section 7 (42.5 - 45 feet, 4.2 feet sample recovered)		19-338	7.5YR 4/3 Brown	fine sand	well	horizontal lamination (<1cm)	redox laminations	moderate	laminations are distorted laminations are distorted
44				7.5YR 5/3 Brown	fine sand	well			moderate	
45				7.5 YR 5/4 Brown	fine sand	well	horizontal lamination (<1cm)		weak	
				7.5YR 4/3 Brown	silt	well			weak	

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SEDIMENT DESCRIPTION

WGNHS ID 70002319 **Field ID** LL01B

Site Name WGNHS Central Sands LL01B

County Waushara

WUWN VQ841

Lat 44.20981 **Long** -89.45634

Elevation 1110.54 ft **Method** RTK

Describer Ana Genthe **Date** 2/13/18



Project Central Sands Lakes Study

Drill Method direct push

Total Depth 52 ft

Notes Corehole was completed as a monitoring well

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
46	Section 8 (45 - 47.5 feet, 2 feet sample recovered)		19-341 X	7.5YR 4/3 Brown (continued)	silt (continued) fine sand	well (continued) moderate	horizontal lamination (<1 cm)		weak (continued) weak	
47				7.5YR 5/4 Brown	medium sand	well	horizontal lamination (<1 cm)		weak	
48	Section 9 (47.5 - 50 feet, 2.7 feet sample recovered)			7.5 YR 5/4 Brown	fine sand	moderate	horizontal lamination (<1 cm)			laminations are distorted
49										
50										

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SEDIMENT DESCRIPTION

WGNHS ID 70002319 **Field ID** LL01B **Site Name** WGNHS Central Sands LL01B
County Waushara **WUWN** VQ841
Lat 44.20981 **Long** -89.45634 **Elevation** 1110.54 ft **Method** RTK
Describer Ana Genthe **Date** 2/13/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 52 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
51	Section 10 (50 - 52 feet, 3 feet sample recovered)		19-344 ✕	7.5 YR 5/4 Brown	fine sand (continued) fine sand	moderate (continued) moderate	horizontal bedding (>1cm)			
52										
<div><div>19-345 ✕</div></div> <div>End of borehole LL01B.</div>										

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SEDIMENT DESCRIPTION

WGNHS ID 70002294 **Field ID** LL02 **Site Name** WGNHS Central Sands LL02
County Waushara **WUWN** VQ818
Lat 44.20786 **Long** -89.46113 **Elevation** 1108.14 ft **Method** RTK
Describer Stef Dodge **Date** 8/20/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 20 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 3.1 feet sample recovered)		18-624 X	10 YR 6/3 pale brown	medium sand	well				Road grade
2				10 YR 6/4 light yellowish brown	sand & gravel	well	horizontal lamination (<1cm)			Med sand & gravel, Slight laminations, Granule size gravel
3				10 YR 6/2 light brownish gray	medium sand	well				Silty med sand
4										
5										

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SEDIMENT DESCRIPTION

WGNHS ID 70002294 **Field ID** LL02 **Site Name** WGNHS Central Sands LL02
County Waushara **WUWN** VQ818
Lat 44.20786 **Long** -89.46113 **Elevation** 1108.14 ft **Method** RTK
Describer Stef Dodge **Date** 8/20/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 20 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 2.4 feet sample recovered)		18-627 ×	10 YR 6/2 light brownish gray	medium sand	well				Silty med sand
				10 YR 7/4 very pale brown	medium sand	well				Minimal gravel @ 20-24cm, 53-61cm
7				10 YR 5/2 grayish brown	silt	well				Med sandy silt, Mottled structure
8			18-628 ×							
9										
10										

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SEDIMENT DESCRIPTION

WGNHS ID 70002294 **Field ID** LL02 **Site Name** WGNHS Central Sands LL02
County Waushara **WUWN** VQ818
Lat 44.20786 **Long** -89.46113 **Elevation** 1108.14 ft **Method** RTK
Describer Stef Dodge **Date** 8/20/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 20 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 3.2 feet sample recovered)		18-630 ×	10 YR 6/3 pale brown	n/a, Recore medium sand	moderate				Recore
										Heavy gravel @ 37-62, 86-94cm, Silty fine sand pockets throughout 37-62cm
12										
13										
14										
15										

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SEDIMENT DESCRIPTION

WGNHS ID 70002294 **Field ID** LL02 **Site Name** WGNHS Central Sands LL02
County Waushara **WUWN** VQ818
Lat 44.20786 **Long** -89.46113 **Elevation** 1108.14 ft **Method** RTK
Describer Stef Dodge **Date** 8/20/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 20 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
	Section 4 (15 - 20 feet, 4.7 feet sample recovered)		18-634		n/a, Recore					Recore
16				10 YR 5/3 brown	medium sand	poor	horizontal bedding (>1cm)			H bedding of med sand/coarse sand & gravel from 18-144.5cm
17										
18										
19										
				10 YR 5/3 brown	sand & gravel	poor				Coarse sand & gravel
				10 YR 5/3 brown	medium sand	poor				
				10 YR 5/3 brown	sand & gravel	poor				Coarse sand & gravel
20										End of borehole LL02

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SEDIMENT DESCRIPTION

WGNHS ID 70002320 **Field ID** LL02B **Site Name** WGNHS Central Sands LL02B
County Waushara **WUWN** VQ842
Lat 44.20784 **Long** -89.46113 **Elevation** 1107.96 ft **Method** RTK
Describer Stef Dodge **Date** 1/25/19 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 42.5 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
21	Section 1 (20 - 25 feet, 1.9 feet sample recovered)		19-147 X	7.5YR 6/4 Light Brown	medium sand	moderate				sample collection started at 20 feet, see LL02 for upper intervals.
22										Large clast at 54-57cm
23										
24										
25										

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SEDIMENT DESCRIPTION

WGNHS ID 70002320 **Field ID** LL02B **Site Name** WGNHS Central Sands LL02B
County Waushara **WUWN** VQ842
Lat 44.20784 **Long** -89.46113 **Elevation** 1107.96 ft **Method** RTK
Describer Stef Dodge **Date** 1/25/19 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 42.5 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
26	Section 2 (25 - 30 feet, 4.9 feet sample recovered)		19-148 X 19-149 X 19-150 X	7.5 YR 6/3 Light Brown	medium sand	moderate				
27				7.5 YR 5/2 Brown	fine sand	well	horizontal lamination (<1cm)			Pocket of medium sand at 106 cm
28										
29										
30			19-152 X							

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SEDIMENT DESCRIPTION

WGNHS ID 70002320 **Field ID** LL02B

Site Name WGNHS Central Sands LL02B

County Waushara

WUWN VQ842

Lat 44.20784 **Long** -89.46113

Elevation 1107.96 ft **Method** RTK

Describer Stef Dodge **Date** 1/25/19

Project Central Sands Lakes Study

Drill Method direct push

Total Depth 42.5 ft

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
31	Section 3 (30 - 35 feet, 4.9 feet sample recovered)			7.5YR 5/2 Brown	fine sand	well	horizontal lamination (<1cm)			
32										
33										
34										
35										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002320 **Field ID** LL02B

County Waushara

Lat 44.20784 **Long** -89.46113

Describer Stef Dodge **Date** 1/25/19

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands LL02B

WUWN VQ842

Elevation 1107.96 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 42.5 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
36	Section 4 (35 - 38 feet, 4.9 feet sample recovered)		19-157 X	7.5YR 5/2 Brown	fine sand	well	horizontal lamination (<1cm)			
37				7.5YR 5/2 Brown	silt	well				Trace clay
38				7.5YR 6/2 Pinkish Gray	medium sand	well				
				7.5YR 5/2 Brown	fine sand	well	horizontal lamination (<1cm)			Slightly Distorted Silt Laminations 7.5YR 5/3 Brown
39	Section 5 (38 - 40 feet, 2.6 feet sample recovered)		19-158 X 19-161 X	7.5YR 5/2 Brown	silt	well	horizontal lamination (<1cm)			
40						well				

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SEDIMENT DESCRIPTION

WGNHS ID 70002320 **Field ID** LL02B

County Waushara

Lat 44.20784 **Long** -89.46113

Describer Stef Dodge **Date** 1/25/19

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands LL02B

WUWN VQ842

Elevation 1107.96 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 42.5 ft


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
41	Section 6 (40 - 42.5 feet, 1.6 feet sample recovered)		19-162 X	7.5YR 5/3 Brown (continued) 7.5YR 6/3 Light Brown	medium sand (continued) medium sand	well (continued) well				
42										End of borehole LL02B.

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002295 **Field ID** LL03 **Site Name** WGNHS Central Sands LL03
County Waushara **WUWN** VQ819
Lat 44.2066 **Long** -89.46092 **Elevation** 1114.67 ft **Method** RTK
Describer Stef Dodge **Date** 10/16/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 25 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
	Section 1 (0 - 5 feet, 1.3 feet sample recovered)		18-636 X		n/a, Road grade					Road grade
1				7.5 YR 6/4 light brown	medium sand	well		Oxidation		
2										
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002295 **Field ID** LL03 **Site Name** WGNHS Central Sands LL03
County Waushara **WUWN** VQ819
Lat 44.2066 **Long** -89.46092 **Elevation** 1114.67 ft **Method** RTK
Describer Stef Dodge **Date** 10/16/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 25 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 2.4 feet sample recovered)		18-637 X	7.5 YR 7/4 pink	medium sand	well	horizontal lamination (<1cm)			Slight laminations, Gravel @ 15-19cm
				7.5 YR 7/4 pink	medium sand	well	horizontal bedding (>1cm)	Oxidation		Silt @ 40-41cm
7			18-638 X	7.5 YR 7/4 pink	sand & gravel	poor				Silty med sand & gravel
			18-639 X	7.5 YR 8/2 pinkish white	medium sand	well				
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002295 **Field ID** LL03 **Site Name** WGNHS Central Sands LL03
County Waushara **WUWN** VQ819
Lat 44.2066 **Long** -89.46092 **Elevation** 1114.67 ft **Method** RTK
Describer Stef Dodge **Date** 10/16/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 25 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 3.2 feet sample recovered)		18-641 X		n/a, Recore					Recore
12				7.5 YR 8/3 pink	fine sand	well	horizontal lamination (<1cm)			Fine-med sand, Slight laminations
13				7.5 YR 8/2 pinkish white	medium sand	well				
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002295 **Field ID** LL03 **Site Name** WGNHS Central Sands LL03
County Waushara **WUWN** VQ819
Lat 44.2066 **Long** -89.46092 **Elevation** 1114.67 ft **Method** RTK
Describer Stef Dodge **Date** 10/16/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 25 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 2.3 feet sample recovered)	No picture available		10 YR 5/4 yellowish brown	sand & gravel	moderate				Med sand & gravel, Well rounded, <5% gravel, 7.5 YR 4/6 strong brown clay beds @ 30-34cm & 51-52cm
			18-1167 X							
17			18-1168 X							
				7.5 YR 5/3 brown	medium sand	well				Fine-med sand, Well rounded
			18-1169 X							
18										
19										
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002295 **Field ID** LL03 **Site Name** WGNHS Central Sands LL03
County Waushara **WUWN** VQ819
Lat 44.2066 **Long** -89.46092 **Elevation** 1114.67 ft **Method** RTK
Describer Stef Dodge **Date** 10/16/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 25 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
					n/a, Recore					Recore
			18-642 7.5 YR 6/4 light brown		fine sand	well		Reduction		
21			18-643 7.5 YR 5/3 brown		silt	well	horizontal lamination (<1cm)	Reduction		Clayish silt, Fine sand bed @ 41-45cm
			18-644							
			18-645							
22			18-646 7.5 YR 5/2 brown		silt	well	horizontal lamination (<1cm)	Reduction		Clayish silt, Angular/distorted laminations @ 68-87cm
			18-647							
			18-648							
23			18-649							
			18-650							
			18-651							
			18-652							
24										End of borehole LL03
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002296 **Field ID** LL04 **Site Name** WGNHS Central Sands LL04
County Waushara **WUWN** VQ820
Lat 44.20398 **Long** -89.45143 **Elevation** 1124.91 ft **Method** RTK_Offset
Describer Ana Genthe **Date** 11/2/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 35 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.5 feet sample recovered)		18-1210 X	7.5YR 3/3 Dark Brown	medium sand	moderate				Road grade/Topsoil
				7.5YR 4/6 Strong Brown	medium sand	moderate				Roots
2				5YR 4/6 Yellowish Red	medium sand	well				Gravel ~5% of core
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002296 **Field ID** LL04 **Site Name** WGNHS Central Sands LL04
County Waushara **WUWN** VQ820
Lat 44.20398 **Long** -89.45143 **Elevation** 1124.91 ft **Method** RTK_Offset
Describer Ana Genthe **Date** 11/2/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 35 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 2 feet sample recovered)		18-1215 X	5YR 4/6 Yellowish Red	medium sand	moderate				
				7.5YR 6/4 Light Brown	medium sand	poor			moderate	
				10YR 6/4 Light Yellowish Brown	medium sand	poor	horizontal bedding (>1cm)		weak	Clay bed
				7.5YR 7/3 Pink	medium sand	moderate				Gravel beds
7										
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002296 **Field ID** LL04 **Site Name** WGNHS Central Sands LL04
County Waushara **WUWN** VQ820
Lat 44.20398 **Long** -89.45143 **Elevation** 1124.91 ft **Method** RTK_Offset
Describer Ana Genthe **Date** 11/2/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 35 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 2.9 feet sample recovered)		18-1222 ×	7.5YR 7/3 Pink	medium sand	moderate				
				7.5YR 6/4 Light Brown	medium sand	well				
				7.5YR 7/3 Pink	medium sand	moderate poor				
				10YR 7/3 Very Pale Brown	medium sand	well	horizontal lamination ($<1\text{cm}$)			
				7.5YR 6/4 Light Brown	medium sand					
12										
				10YR 7/4 Very Pale Brown	medium sand	moderate				
				10YR 6/4 Light Yellowish Brown	coarse sand	moderate				
13										
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002296 **Field ID** LL04 **Site Name** WGNHS Central Sands LL04
County Waushara **WUWN** VQ820
Lat 44.20398 **Long** -89.45143 **Elevation** 1124.91 ft **Method** RTK_Offset
Describer Ana Genthe **Date** 11/2/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 35 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 2.9 feet sample recovered)		18-1226 X	7.5YR 4/3 Brown	coarse sand	poor			strong	
				7.5YR 6/3 Light Brown	medium sand	poor				
				10YR 7/3 Very Pale Brown	medium sand	moderate				
				10YR 5/4 Yellowish Brown	medium sand	poor				
17				7.5YR 2.5/3 Very Dark Brown	medium sand	poor moderate				
				10YR 7/4 Very Pale Brown	medium sand	poor				
				7.5YR 7/4 Very Pale Brown	medium sand	well				
18				7.5YR 7/4 Very Pale Brown	coarse sand	poor well				
				7.5YR 7/3 Pink	fine sand					
				10YR 7/3 Very Pale Brown						
19				7.5YR 8/3 Pink						
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002296 **Field ID** LL04 **Site Name** WGNHS Central Sands LL04
County Waushara **WUWN** VQ820
Lat 44.20398 **Long** -89.45143 **Elevation** 1124.91 ft **Method** RTK_Offset
Describer Ana Genthe **Date** 11/2/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 35 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 2.9 feet sample recovered)		18-1236 X	10YR 7/3 Very Pale Brown	coarse sand	poor				Blue stopper from 0-2cm
				10YR 6/4 Light Yellowish Brown	medium sand	well	horizontal bedding (>1cm)			
22				10YR 6/4 Light Yellowish Brown	medium sand	moderate well	horizontal lamination (<1cm)			Clay Laminations
				10YR 6/4 Light Yellowish Brown	medium sand	moderate	horizontal lamination (<1cm)			Clay Laminations
23				10YR 5/4 Yellowish Brown	medium sand					
24										
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002296 **Field ID** LL04 **Site Name** WGNHS Central Sands LL04
County Waushara **WUWN** VQ820
Lat 44.20398 **Long** -89.45143 **Elevation** 1124.91 ft **Method** RTK_Offset
Describer Ana Genthe **Date** 11/2/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 35 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
26	Section 6 (25 - 30 feet, 4 feet sample recovered)		18-1240 X	7.5YR 6/4 Light Brown	medium sand	well	horizontal lamination (<1cm)			Blue stopper at 11-12cm
27				7.5YR 5/4 Brown	fine sand	well	horizontal bedding (>1cm)			
28				10YR 6/6 Brownish Yellow	medium sand	moderate	horizontal lamination (<1cm)			
29				7.5YR 5/4 Brown	fine sand	well				
30			18-1244 X	7.5YR 5/4 Brown						

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002296 **Field ID** LL04 **Site Name** WGNHS Central Sands LL04
County Waushara **WUWN** VQ820
Lat 44.20398 **Long** -89.45143 **Elevation** 1124.91 ft **Method** RTK_Offset
Describer Ana Genthe **Date** 11/2/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 35 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
31	Section 7 (30 - 35 feet, 4.5 feet sample recovered)		18-1247 ×	7.5YR 6/4 Light Brown	fine sand	well	horizontal lamination (<1cm)			Laminations and Beds are distorted
32				7.5 6/4 Light Brown	fine sand	well	horizontal lamination (<1cm)			Laminations and Beds are distorted
33				7.5 6/4 Light Brown	medium sand	well				
34				7.5 6/4 Light Brown	fine sand	well	horizontal lamination (<1cm)			Beds are distorted
35										End of borehole LL04

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002297 **Field ID** LL05 **Site Name** WGNHS Central Sands LL05
County Waushara **WUWN** _____
Lat 44.2053 **Long** -89.44784 **Elevation** 1108.57 ft **Method** RTK-Assume
Describer S. Dodge **Date** 7/30/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 20 ft
Notes _____

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.3 feet sample recovered)		18-345 ×	10 YR 5/4 Yellowish Brown	fine sand	well				Fine-med sand
				10 YR 4/4 Dark Yellowish Brown	medium sand	well	horizontal bedding (>1cm)			Fine-med sand, slight H. bedding (slightly distorted)
2			18-346 ×	10 YR 6/4 Light Yellowish Brown	sand & gravel	moderate				Medium sand & gravel
3			18-347 ×							
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002297 **Field ID** LL05

County Waushara

Lat 44.2053 **Long** -89.44784

Describer S. Dodge **Date** 7/30/18

Drill Method direct push

Notes

Site Name WGNHS Central Sands LL05

WUWN

Elevation 1108.57 ft **Method** RTK-Assume

Project Central Sands Lakes Study

Total Depth 20 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 3.5 feet sample recovered)		18-348 ×	10 YR 5/4 Yellowish Brown	fine sand	well				Fine-medium sand
				10 YR 4/4 Dark Yellowish Brown	medium sand	well	horizontal lamination (<1cm)			Silty medium sand, H. laminations: 10 YR 3/2, V. dark grayish, brown silty med sand
7				10 YR 4/4 Dark Yellowish Brown	medium sand	well	horizontal bedding (>1cm)			Silty medium sand, possible H. bedding, wet
8			18-350 ×	5Y 2.5/1 Black	medium sand	well				Silty medium sand & organics
9			18-351 ×							
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002297 **Field ID** LL05 **Site Name** WGNHS Central Sands LL05
County Waushara **WUWN** _____
Lat 44.2053 **Long** -89.44784 **Elevation** 1108.57 ft **Method** RTK-Assume
Describer S. Dodge **Date** 7/30/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 20 ft
Notes _____

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
					n/a, Recore					Recore
11				5Y 5/2 Grayish Brown	coarse sand	moderate	horizontal lamination (<1cm)	Reduced		Coarse sand & organics (black)
12				10 YR 4/1 Dark Gray	medium sand	moderate	horizontal bedding (>1cm)	Reduced	Strong	Silty med-coarse sand & organics, H. Bedding: sandy organics, silty sand, strong reaction w/HCl @ 122-127cm, 2.5Y 5/1 gray V. fine sandy silt
13										
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002297 **Field ID** LL05

County Waushara

Lat 44.2053 **Long** -89.44784

Describer S. Dodge **Date** 7/30/18

Drill Method direct push

Notes

Site Name WGNHS Central Sands LL05

WUWN

Elevation 1108.57 ft **Method** RTK-Assume

Project Central Sands Lakes Study

Total Depth 20 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 4.5 feet sample recovered)			10 YR 5/2 Grayish Brown	coarse sand	moderate		Reduced		Coarse sand & organics, distorted, possible recore
17										
18				5 Y 5/1 Gray	silt	well		Reduced	strong	Very fine sandy silt
19			18-355 X	5 Y 3/1 Very Dark Gray	silt	well		Reduced	strong	Very fine sandy silt
19				5 Y 2.5/1 Black	silt	well		Reduced	strong	Silt (organics)
20			18-356 X	10 YR 4/2 Dark Grayish Brown	medium sand	well				Minimal silt End of borehole LL05

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002298 **Field ID** LL05B

Site Name WGNHS Central Sands LL05B

County Waushara

WUWN VQ821

Lat 44.20534 **Long** -89.44784

Elevation 1108.57 ft **Method** RTK

Describer S. Dodge **Date** 7/30/18


Project Central Sands Lakes Study

Drill Method direct push

Total Depth 20 ft

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 1.6 feet sample recovered)		18-357 X	10 YR 5/4 Yellowish Brown	medium sand	well				sample collection started at 20 feet, see LL05 for upper intervals. Fine-medium sand, minimal granules
				10 YR 4/6 Dark Yellowish Brown	medium sand	well	horizontal lamination (<1cm)			Medium-coarse sand and minimal gravel, possible H. laminations
2										
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002298 **Field ID** LL05B

Site Name WGNHS Central Sands LL05B

County Waushara

WUWN VQ821

Lat 44.20534 **Long** -89.44784

Elevation 1108.57 ft **Method** RTK

Describer S. Dodge **Date** 7/30/18

Project Central Sands Lakes Study

Drill Method direct push

Total Depth 20 ft

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
	Section 2 (5 - 10 feet, 2.8 feet sample recovered)		18-360 X		n/a, Recore					Recore
6				10 YR 5/4 Yellowish Brown	medium sand	well	horizontal bedding (>1cm)			Silty medium sand w/ minimal gravel, 10 YR 3/3 dark brown beds
7										
8				10 YR 4/3 Brown	medium sand	well	horizontal bedding (>1cm)			Silty medium-coarse sand, medium sorted @ 82-86cm, H. bedding of 10 YR 3/2 very dark greyish brown, wet, heavy gravel @ 82-86 cm
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002298 **Field ID** LL05B **Site Name** WGNHS Central Sands LL05B
County Waushara **WUWN** VQ821
Lat 44.20534 **Long** -89.44784 **Elevation** 1108.57 ft **Method** RTK
Describer S. Dodge **Date** 7/30/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 20 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 3 feet sample recovered)		18-363 ×	10 YR 3/1 Very Dark Gray	medium sand	well				Possible recore from 0-8cm
12				Black, Closest to 10 YR 2/1 Black	silt	moderate	horizontal bedding (>1cm)	Reduction		Silt with organics, minimal gravel, H. bedding of 2.5 Y 4/1 dark gray medium-coarse sand, silt laminations within beds
13				5Y 5/1 Gray	silt	well		Reduction	strong	Minimal very fine sand
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002298 **Field ID** LL05B **Site Name** WGNHS Central Sands LL05B
County Waushara **WUWN** VQ821
Lat 44.20534 **Long** -89.44784 **Elevation** 1108.57 ft **Method** RTK
Describer S. Dodge **Date** 7/30/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 20 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 3.3 feet sample recovered)		18-366 X	5 Y 5/1 Gray	silt	well		Reduction	strong	Silt w/ minimal very fine sand
17				5 Y 2.5/1	silt	well		Reduction	strong	Silt w/ Organics, organics @80-83cm
18				10 YR 4/2 Dark Grayish Brown	medium sand	well				
19										End of borehole LL05B
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002321 **Field ID** LL05C **Site Name** WGNHS Central Sands LL05C
County Waushara **WUWN** VQ843
Lat 44.20535 **Long** -89.44784 **Elevation** 1108.64 ft **Method** RTK
Describer Ana Genthe **Date** 2/14/19 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 56 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 1 (20 - 25 feet, 4.6 feet sample recovered)		19-348 ×	7.5YR 6/3 Light Brown	medium sand	well				sample collection started at 40 feet, see LL05 and LL05B for upper intervals. ~5% cobbles
22										
23				10YR 6/4 Light Yellowish Brown	coarse sand	moderate				~25% cobbles
24				7.5YR 6/4 Light Brown	coarse sand	well				~5% cobbles
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002321 **Field ID** LL05C

County Waushara

Lat 44.20535 **Long** -89.44784

Describer Ana Genthe **Date** 2/14/19

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands LL05C

WUWN VQ843

Elevation 1108.64 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 56 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
26	Section 2 (25 - 30 feet, 3.8 feet sample recovered)		19-353 X	10YR 5/6 Yellowish Brown	medium sand	well				~5% cobbles
				7.5YR 6/4 Light Brown	medium sand	well				
				7.5YR 6/4 Light Brown	medium sand	moderate				~25% cobbles
27				7.5YR 6/4 Light Brown	medium sand	well				
				7.5YR 6/4 Light Brown	medium sand	moderate				~5% cobbles
				7.5YR 6/4 Light Brown	medium sand	well				
28				10YR 6/4 Light Yellowish Brown	medium sand	moderate				~5% cobbles
29										
30										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002321 **Field ID** LL05C **Site Name** WGNHS Central Sands LL05C
County Waushara **WUWN** VQ843
Lat 44.20535 **Long** -89.44784 **Elevation** 1108.64 ft **Method** RTK
Describer Ana Genthe **Date** 2/14/19 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 56 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
31	Section 3 (30 - 35 feet, 4.3 feet sample recovered)			10YR 5/4 Yellowish Brown	medium sand	moderate	horizontal bedding (>1cm)		weak	~2% cobbles
32										
33										
34										
35										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002321 **Field ID** LL05C **Site Name** WGNHS Central Sands LL05C
County Waushara **WUWN** VQ843
Lat 44.20535 **Long** -89.44784 **Elevation** 1108.64 ft **Method** RTK
Describer Ana Genthe **Date** 2/14/19 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 56 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
36	Section 4 (35 - 40 feet, 3.9 feet sample recovered)			10YR 5/4 Yellowish Brown	medium sand	moderate	horizontal bedding (>1cm)		weak	Especially well sorted from 51-64cm, ~2% cobbles
37										
38										
39										
40										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002321 **Field ID** LL05C

County Waushara

Lat 44.20535 **Long** -89.44784

Describer Ana Genthe **Date** 2/14/19

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands LL05C

WUWN VQ843

Elevation 1108.64 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 56 ft


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
41	Section 5 (40 - 45 feet, 4.5 feet sample recovered)		19-362 ×	10YR 5/4 Yellowish Brown	medium sand	moderate	horizontal bedding (>1cm)			~2% cobbles
42										
43				10YR 5/3 Brown	fine sand	well	horizontal bedding (>1cm)			
44				10YR 5/3 Brown	medium sand	well				
45										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002321 **Field ID** LL05C **Site Name** WGNHS Central Sands LL05C
County Waushara **WUWN** VQ843
Lat 44.20535 **Long** -89.44784 **Elevation** 1108.64 ft **Method** RTK
Describer Ana Genthe **Date** 2/14/19 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 56 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
46	Section 6 (45 - 50 feet, 4 feet sample recovered)			10YR 5/3 Brown	medium sand	well	horizontal bedding (>1cm)		weak	Beds appear more distorted as depth increases
47										
48										
49										
50										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002321 **Field ID** LL05C

County Waushara

Lat 44.20535 **Long** -89.44784

Describer Ana Genthe **Date** 2/14/19

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands LL05C

WUWN VQ843

Elevation 1108.64 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 56 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
51	Section 7 (50 - 55 feet, 3.7 feet sample recovered)		19-369 X	10YR 6/4 Light Yellowish Brown	medium sand	well	horizontal bedding (>1cm)			43-66cm looks like a gradual layered transition from the top sediment to the bottom
52										
53				7.5YR 6/4 Light Brown	fine sand	well	horizontal lamination (<1cm)			
54										
55										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002321 **Field ID** LL05C

County Waushara

Lat 44.20535 **Long** -89.44784

Describer Ana Genthe **Date** 2/14/19

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands LL05C


WUWN VQ843

Elevation 1108.64 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 56 ft

For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
56	Section 8 (55 - 56 feet, 0.2 feet sample recovered)		19-370 X	7.5YR 6/4 Light Brown	fine sand	well				
										End of borehole LL05C.

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002299 **Field ID** LL06 **Site Name** WGNHS Central Sands LL06
County Waushara **WUWN** VQ822
Lat 44.20646 **Long** -89.45102 **Elevation** 1124.61 ft **Method** RTK
Describer Stef Dodge **Date** 8/20/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 30 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 1.7 feet sample recovered)		18-609 X		n/a, Road grade	poor				Road grade
				7.5 YR 7/4 pink	medium sand	well				Med-coarse sand, 7.5 YR 5/6 strong brown @ 32-44cm
2										
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002299 **Field ID** LL06 **Site Name** WGNHS Central Sands LL06
County Waushara **WUWN** VQ822
Lat 44.20646 **Long** -89.45102 **Elevation** 1124.61 ft **Method** RTK
Describer Stef Dodge **Date** 8/20/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 30 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
	Section 2 (5 - 10 feet, 2.4 feet sample recovered)		18-611 X		n/a, Recore					Recore
6				7.5 YR 6/4 light brown	medium sand	well	horizontal bedding (>1cm)	Oxidation		
7				7.5 YR 8/3 pink	medium sand	well	horizontal lamination (<1cm)			Gravel @ 52-55, 62-65cm
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002299 **Field ID** LL06 **Site Name** WGNHS Central Sands LL06
County Waushara **WUWN** VQ822
Lat 44.20646 **Long** -89.45102 **Elevation** 1124.61 ft **Method** RTK
Describer Stef Dodge **Date** 8/20/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 30 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 2.7 feet sample recovered)		18-613 X		n/a, Recore					Recore
				7.5 YR 6/4 light brown	medium sand	well	horizontal lamination (<1cm)			
12				7.5 YR 6/4 light brown	sand & gravel	poor			weak	Med sand & gravel, Crushed rock
				7.5 YR 8/2 pinkish white	medium sand	well				
13										
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002299 **Field ID** LL06 **Site Name** WGNHS Central Sands LL06
County Waushara **WUWN** VQ822
Lat 44.20646 **Long** -89.45102 **Elevation** 1124.61 ft **Method** RTK
Describer Stef Dodge **Date** 8/20/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 30 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 3.2 feet sample recovered)		18-615 ×		n/a, Recore					Recore
17				7.5 YR 7/3 pink	sand & gravel	moderate	horizontal bedding (>1cm)			Med sand & gravel, Gravel bedding @ 45-57, 69-75cm
18										
19										
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002299 **Field ID** LL06 **Site Name** WGNHS Central Sands LL06
County Waushara **WUWN** VQ822
Lat 44.20646 **Long** -89.45102 **Elevation** 1124.61 ft **Method** RTK
Describer Stef Dodge **Date** 8/20/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 30 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 3.3 feet sample recovered)		18-618 X		n/a, Recore					Recore
				7.5 YR 7/3 pink	sand & gravel	poor				Possible recore, Med sand & gravel
22				7.5 YR 7/3 pink	medium sand	well	horizontal lamination (<1cm)			Fine sand & silt/med sand laminations
23										
24										
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002299 **Field ID** LL06 **Site Name** WGNHS Central Sands LL06
County Waushara **WUWN** VQ822
Lat 44.20646 **Long** -89.45102 **Elevation** 1124.61 ft **Method** RTK
Describer Stef Dodge **Date** 8/20/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 30 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
26	Section 6 (25 - 30 feet, 3.2 feet sample recovered)		18-621 X	7.5 YR 6/4 light brown	n/a, Recore medium sand	well	horizontal lamination (<1cm)			Recore Fine-med sand
27										
28										
29										End of borehole LL06
30										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002300 **Field ID** LL07 **Site Name** WGNHS Central Sands LL07
County Waushara **WUWN** VQ823
Lat 44.20842 **Long** -89.454 **Elevation** 1119.33 ft **Method** RTK_Offset
Describer S. Dodge **Date** 9/4/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 30 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.9 feet sample recovered)		18-731 X	10 YR 4/4 Dark Yellowish Brown	medium sand	well				
				7.5 YR 6/4 Light Brown	medium sand	well				Fine-medium sand
2				7.5 YR 5/6 Strong Brown	medium sand	moderate				Silty fine-medium sand and gravel, diamict?
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002300 **Field ID** LL07 **Site Name** WGNHS Central Sands LL07
County Waushara **WUWN** VQ823
Lat 44.20842 **Long** -89.454 **Elevation** 1119.33 ft **Method** RTK_Offset
Describer S. Dodge **Date** 9/4/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 30 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
					n/a, Recore, distorted					Recore, distorted
6	Section 2 (5 - 10 feet, 2.5 feet sample recovered)		18-734 X	7.5 YR 7/4 Pink	medium sand	well	horizontal bedding (>1cm)	Oxidized beds		Fine sand @ base, coarse bed @ 61.5 - 63.5cm
7										
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002300 **Field ID** LL07

County Waushara

Lat 44.20842 **Long** -89.454

Describer S. Dodge **Date** 9/4/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands LL07


WUWN VQ823

Elevation 1119.33 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 30 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 1.9 feet sample recovered)		18-736 ×	7.5 YR 7/4 Pink	n/a, Recore medium sand	well	horizontal lamination (<1cm)	Oxidized Lamination		Recore
12										
13										
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002300 **Field ID** LL07

County Waushara

Lat 44.20842 **Long** -89.454

Describer S. Dodge **Date** 9/4/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands LL07

WUWN VQ823

Elevation 1119.33 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 30 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 2.1 feet sample recovered)		18-741 18-742 X X	7.5 YR 7/3 Pink	medium sand	well	horizontal bedding (>1cm)			Horizontal bedding from 0-20cm, medium-coarse sand @ 0-10cm and @ 12.5-20cm, minimal gravel
				7.5 YR 7/3 Pink	fine sand	well				
				7.5 YR 7/3 Pink	coarse sand	well				
				7.5 YR 7/3 Pink	medium sand	well				Medium-coarse sand @ 0-10cm
				7.5 YR 7/3 Pink	medium sand	well				
17				7.5 YR 7/3 Pink	medium sand	well				Fine-medium sand, silty sand @ 57-61cm
18										
19										
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002300 **Field ID** LL07

County Waushara

Lat 44.20842 **Long** -89.454

Describer S. Dodge **Date** 9/4/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands LL07

WUWN VQ823

Elevation 1119.33 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 30 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 3.2 feet sample recovered)		18-743 X	7.5 YR 6/3 - 6/4 Light Brown	medium sand	well				Fine-medium sand
22										
23										
24										
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002300 **Field ID** LL07

County Waushara

Lat 44.20842 **Long** -89.454

Describer S. Dodge **Date** 9/4/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands LL07


WUWN VQ823

Elevation 1119.33 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 30 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
					n/a, Recore					Recore
26	Section 6 (25 - 30 feet, 4.1 feet sample recovered)			7.5 YR 6/3 Light Brown	medium sand	well	horizontal lamination (<1cm)			Slight H. lamination
27										
28				7.5 YR 6/3 Light Brown	fine sand	well	horizontal lamination (<1cm)			Slight H. lamination, silt @ 74cm
29				7.5 YR 6/3 Brown	fine sand	well	horizontal lamination (<1cm)			Silty fine sand, silt laminations @ 107, 109, 122cm
30			18-748 X							End of borehole LL07

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002301 **Field ID** LL08

County Waushara

Lat 44.20903 **Long** -89.45995

Describer S. Dodge **Date** 9/4/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands LL08

WUWN VQ824

Elevation 1119.41 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 30 ft


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.1 feet sample recovered)		18-1015 X	7.5 YR 6/4 Light Brown	medium sand	well				Road grade, fine-medium sand
2				7.5 YR 6/4 Light Brown	medium sand	well		Oxidation Ground Root @ 46-50cm		
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002301 **Field ID** LL08 **Site Name** WGNHS Central Sands LL08
County Waushara **WUWN** VQ824
Lat 44.20903 **Long** -89.45995 **Elevation** 1119.41 ft **Method** RTK_Offset
Describer S. Dodge **Date** 9/4/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 30 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 2.8 feet sample recovered)		18-1017 X		n/a, Recore					Recore
7				7.5 YR 8/3 Pink	fine sand	well	horizontal lamination (<1cm)	Oxidized Laminations		Fine-medium sand, root @ 69cm
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002301 **Field ID** LL08 **Site Name** WGNHS Central Sands LL08
County Waushara **WUWN** VQ824
Lat 44.20903 **Long** -89.45995 **Elevation** 1119.41 ft **Method** RTK_Offset
Describer S. Dodge **Date** 9/4/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 30 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 3.1 feet sample recovered)		18-1019 X		n/a, Recore					Recore
12				7.5 YR 8/3 Pink	medium sand	well	horizontal lamination (<1cm)	Oxidized Lamination		Minimal granules throughout, gravel @83cm
13										
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002301 **Field ID** LL08 **Site Name** WGNHS Central Sands LL08
County Waushara **WUWN** VQ824
Lat 44.20903 **Long** -89.45995 **Elevation** 1119.41 ft **Method** RTK_Offset
Describer S. Dodge **Date** 9/4/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 30 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
	Section 4 (15 - 20 feet, 1.7 feet sample recovered)		18-1020 X		n/a, Recore					Recore
16				7.5 YR 6/4 Light Brown	medium sand	well	horizontal lamination (<1cm)			Slight horizontal laminations
17										
18										
19										
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002301 **Field ID** LL08 **Site Name** WGNHS Central Sands LL08
County Waushara **WUWN** VQ824
Lat 44.20903 **Long** -89.45995 **Elevation** 1119.41 ft **Method** RTK_Offset
Describer S. Dodge **Date** 9/4/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 30 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
	Section 5 (20 - 25 feet, 2.9 feet sample recovered)				n/a, Recore					Recore
				7.5 YR 6/3 Light Brown	medium sand	well				
21				7.5 YR 6/4 Light Brown	fine sand	well	horizontal lamination (<1cm)			Fine-medium sand, slight horizontal laminations
22										
			18-1023 X	7.5 YR 5/3 Brown	clay	well	horizontal lamination (<1cm)			Silty clay, silty clay/sand lamination, slightly sandy with sand laminations
23			18-1025 X							
24										
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002301 **Field ID** LL08

County Waushara

Lat 44.20903 **Long** -89.45995

Describer S. Dodge **Date** 9/4/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands LL08

WUWN VQ824

Elevation 1119.41 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 30 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
26	Section 6 (25 - 30 feet, 4.4 feet sample recovered)			7.5 YR 8/3 Pink	fine sand	well	horizontal lamination (<1cm)	Oxidized Lamination		Recore
27				7.5 YR 7/3 Pink	medium sand	well	horizontal lamination (<1cm)			Possible recore, fine-medium sand, silty clay horizontal laminations
28			18-1026 X	7.5 YR 5/3-5/4 Brown	clay	well	horizontal lamination (<1cm)			Silty clay, silty clay/sand horizontal laminations, 7.5 YR 7/3 Pink, medium sand laminations
29			18-1028 X							
			18-1030 X							
			18-1032 X							
30										End of borehole LL08

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002302 **Field ID** LL09

County Waushara

Lat 44.20542 **Long** -89.45637

Describer S. Dodge **Date** 9/4/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands LL09

WUWN VQ825

Elevation 1115.52 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 25 ft


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.3 feet sample recovered)		18-1035 X	10 YR 4/4 Dark Yellowish Brown	medium sand	well				Road grade, granite @ 32-34cm
2				7.5 YR 5/6 Strong Brown	medium sand	well		Oxidation		Medium sand with minimal gravel, slightly silty
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002302 **Field ID** LL09 **Site Name** WGNHS Central Sands LL09
County Waushara **WUWN** VQ825
Lat 44.20542 **Long** -89.45637 **Elevation** 1115.52 ft **Method** RTK
Describer S. Dodge **Date** 9/4/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 25 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
	Section 2 (5 - 10 feet, 2.6 feet sample recovered)				n/a, Recore					Recore
6				7.5 YR 6/4 Light Brown	medium sand	moderate				Minimal gravel @ 14-18cm, 25-27cm, 42cm, 51cm More gravel @54-62cm
7				7.5 YR 8/2 Pinkish White	medium sand	well	horizontal lamination (<1cm)	Oxidation @ 73-78cm		Slight H. Lamination
8			18-1037 X							
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002302 **Field ID** LL09

County Waushara

Lat 44.20542 **Long** -89.45637

Describer S. Dodge **Date** 9/4/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands LL09

WUWN VQ825

Elevation 1115.52 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 25 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 3.1 feet sample recovered)		18-1040 X	7.5 YR 8/2 Pinkish White	medium sand	well				
				7.5 YR 8/2 Pinkish White	medium sand	poor		Oxidation		Medium-course sand
12				7.5 YR 8/2 Pinkish White	medium sand	well	horizontal lamination (<1 cm)			
13										
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002302 **Field ID** LL09

County Waushara

Lat 44.20542 **Long** -89.45637

Describer S. Dodge **Date** 9/4/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands LL09

WUWN VQ825

Elevation 1115.52 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 25 ft

For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 2.5 feet sample recovered)		18-1043 X	7.5 YR 6/3 Light Brown	medium sand	well	horizontal bedding (>1cm)			Horizontal Bedding Sand/Sand and Gravel from 0cm to 77.5cm
				7.5 YR 6/3 Light Brown	sand & gravel	moderate				Medium Sand and Gravel
				7.5 YR 6/3 Light Brown	medium sand	well				
				7.5 YR 6/3 Light Brown	sand & gravel	moderate				Medium Sand and Gravel
				7.5 YR 6/3 Light Brown	fine sand	well				
				7.5 YR 6/4 Light Brown	sand & gravel	moderate				Medium Sand and Gravel
17				10 YR 6/4 Light Yellowish Brown	medium sand	well				
				10 YR 6/4 Light Yellowish Brown	sand & gravel	moderate				Medium Sand and Gravel
18				10 YR 6/4 Light Yellowish Brown						
19										
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002302 **Field ID** LL09 **Site Name** WGNHS Central Sands LL09
County Waushara **WUWN** VQ825
Lat 44.20542 **Long** -89.45637 **Elevation** 1115.52 ft **Method** RTK
Describer S. Dodge **Date** 9/4/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 25 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 3.3 feet sample recovered)		18-1049 X	7.5 YR 6/3 Light Brown	medium sand	well				Medium-course sand, gravel @ 11-19cm, silt lamination @ 77cm
22										
23				7.5 YR 5/2 Light Brown	fine sand	well	horizontal lamination (<1cm)			Fine sand with silt
24										End of borehole LL09
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002322 **Field ID** LL09B

County Waushara

Lat 44.20542 **Long** -89.45636

Describer Ana Genthe **Date** 2/4/19

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands LL09B


WUWN VQ844

Elevation 1115.37 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 75 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
26	Section 9 (25 - 30 feet, 4.3 feet sample recovered)			7.5YR 6/4 Light Brown	medium sand	moderate		oxidation on edges of tube		sample collection started at 25 feet, see LL09 for upper intervals.
				7.5YR 5/4 Brown	fine sand	poor	horizontal bedding (>1cm)			Clay beds
27										
28										
29			19-374 X	7.5YR 5/4 Brown	silt	poor	horizontal bedding (>1cm)	slight redox laminations		
30										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002322 **Field ID** LL09B

County Waushara

Lat 44.20542 **Long** -89.45636

Describer Ana Genthe **Date** 2/4/19

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands LL09B

WUWN VQ844

Elevation 1115.37 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 75 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
31	Section 10 (30 - 35 feet, 5.1 feet sample recovered)		19-377 X	7.5YR 6/4 Light Brown	medium sand	moderate				Recore
				10YR 5/3 Reddish Brown	silt	poor		redox layers		Recore?
32				7.5YR 6/4 Light Brown	medium sand	well	horizontal bedding (>1cm)			Clay beds
33				7.5YR 4/3 Brown	silt	poor	horizontal bedding (>1cm)	redox layers		Clay and sand beds
34										
35			19-379A							

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002322 **Field ID** LL09B

County Waushara

Lat 44.20542 **Long** -89.45636

Describer Ana Genthe **Date** 2/4/19

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands LL09B



WUWN VQ844

Elevation 1115.37 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 75 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
41	Section 11 (40 - 44 feet, 3.1 feet sample recovered)			7.5YR 5/2 Brown	silt	well	horizontal lamination (<1cm)	redox layers		
42										
43										
44	Section 12 (44 - 50 feet, 5.1 feet sample recovered)			7.5YR 5/3 Brown	silt	moderate	horizontal lamination (<1cm)	redox layers		
45										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002322 **Field ID** LL09B

County Waushara

Lat 44.20542 **Long** -89.45636

Describer Ana Genthe **Date** 2/4/19

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands LL09B


WUWN VQ844

Elevation 1115.37 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 75 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
46	Section 12 (44 - 50 feet, 5.1 feet sample recovered)			7.5YR 5/3 Brown (continued)	silt (continued)	moderate (continued)	horizontal lamination ($<1\text{cm}$) (continued)	redox layers (continued)		
47										
48										
49										
50										
			19-383 X							

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002322 **Field ID** LL09B

County Waushara

Lat 44.20542 **Long** -89.45636

Describer Ana Genthe **Date** 2/4/19

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands LL09B


WUWN VQ844

Elevation 1115.37 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 75 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
51	Section 13 (54 - 55 feet, 3.5 feet sample recovered)									
52										
53										
54										
55										
			19-385	7.5YR 6/4 Light Brown	medium sand	well				

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002322 **Field ID** LL09B

County Waushara

Lat 44.20542 **Long** -89.45636

Describer Ana Genthe **Date** 2/4/19

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands LL09B


WUWN VQ844

Elevation 1115.37 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 75 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
56	Section 14 (55 - 60 feet, 3.4 feet sample recovered)		19-388 ×	7.5YR 6/4 Light Brown (continued) 7.5YR 6/4 Light Brown	medium sand (continued) medium sand	well (continued) well				
57										
58										
59										
60										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002322 **Field ID** LL09B

County Waushara

Lat 44.20542 **Long** -89.45636

Describer Ana Genthe **Date** 2/4/19

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands LL09B


WUWN VQ844

Elevation 1115.37 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 75 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
61	Section 15 (62 - 70 feet, 4.4 feet sample recovered)			7.5YR 6/3 Light Brown	medium sand	well	horizontal lamination (<1cm)			
62										
63										
64										
65										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002322 **Field ID** LL09B

Site Name WGNHS Central Sands LL09B

County Waushara

WUWN VQ844

Lat 44.20542 **Long** -89.45636

Elevation 1115.37 ft **Method** RTK

Describer Ana Genthe **Date** 2/4/19


Project Central Sands Lakes Study

Drill Method direct push

Total Depth 75 ft

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
66	Section 15 (62 - 70 feet, 4.4 feet sample recovered)		19-391 X	7.5YR 6/3 Light Brown (continued)	medium sand (continued)	well (continued)	horizontal lamination (<1 cm) (continued)			
67										
68										
69										
70										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002322 **Field ID** LL09B

County Waushara

Lat 44.20542 **Long** -89.45636

Describer Ana Genthe **Date** 2/4/19

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands LL09B

WUWN VQ844

Elevation 1115.37 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 75 ft

For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
71	Section 16 (70 - 75 feet, 5 feet sample recovered)			7.5YR 6/4 Light Brown	medium sand	well				Granules below 100cm
72										
73										
74										
75										
			19-393							
			19-395							
				7.5YR 6/4 Light Brown	coarse sand	poor				
				7.5YR 4/3 Brown	clay	well				
										End of borehole LL09B

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002303 **Field ID** LL10 **Site Name** WGNHS Central Sands LL10
County Waushara **WUWN** VQ826
Lat 44.20664 **Long** -89.45761 **Elevation** 1117.1 ft **Method** RTK
Describer Stef Dodge **Date** 8/20/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 25 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.3 feet sample recovered)		18-587 X	7.5 YR 6/4 light brown	medium sand	well				Road grade
2				7.5 YR 5/6 strong brown	medium sand	well				Small % gravel
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002303 **Field ID** LL10 **Site Name** WGNHS Central Sands LL10
County Waushara **WUWN** VQ826
Lat 44.20664 **Long** -89.45761 **Elevation** 1117.1 ft **Method** RTK
Describer Stef Dodge **Date** 8/20/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 25 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
	Section 2 (5 - 10 feet, 2.6 feet sample recovered)		18-590 X		n/a, Recore					Recore
6				7.5 YR 5/6 strong brown	medium sand	well		Oxidation		Med-coarse sand
7				7.5 YR 8/2 pinkish brown	medium sand	well	horizontal lamination (<1cm)	Oxidation		Med-coarse sand, minimal % gravel
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002303 **Field ID** LL10 **Site Name** WGNHS Central Sands LL10
County Waushara **WUWN** VQ826
Lat 44.20664 **Long** -89.45761 **Elevation** 1117.1 ft **Method** RTK
Describer Stef Dodge **Date** 8/20/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 25 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 4.2 feet sample recovered)		18-596 ✕		n/a, Recore					Recore
12				7.5 YR 8/2 pinkish white	medium sand	well	horizontal bedding (>1cm)			Horizontal bedding from 39-118cm
13				7.5 YR 8/2 pinkish white	sand & gravel medium sand	well				Med sand & gravel
				7.5 YR 8/2 pinkish white		well				
14				7.5 YR 8/2 pinkish white	sand & gravel	well				Med sand & gravel
				7.5 YR 7/3 pink	medium sand	well	horizontal lamination (<1cm)			
15		7.5 YR 8/3 pink	medium sand	well				Med-coarse sand		

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002303 **Field ID** LL10 **Site Name** WGNHS Central Sands LL10
County Waushara **WUWN** VQ826
Lat 44.20664 **Long** -89.45761 **Elevation** 1117.1 ft **Method** RTK
Describer Stef Dodge **Date** 8/20/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 25 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 4.6 feet sample recovered)				n/a, Recore					Recore
17				7.5 YR 7/3 pink	medium sand	well	horizontal bedding (>1cm)			Gravel beds
18										
19										
20			18-597 18-598 18-599 18-600	7.5 YR 5/4 brown	clay	well	horizontal lamination (<1cm)			Silty clay, Clay/sand laminations

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002303 **Field ID** LL10 **Site Name** WGNHS Central Sands LL10
County Waushara **WUWN** VQ826
Lat 44.20664 **Long** -89.45761 **Elevation** 1117.1 ft **Method** RTK
Describer Stef Dodge **Date** 8/20/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 25 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 4.7 feet sample recovered)				n/a, Recore					Recore
22										
23			18-601 X	7.5 YR 5/4 brown	clay	well	horizontal lamination (<1cm)	Oxidation		Silty clay, Clay/sand laminations, Clay beds @ 102-104, 129-130, 131-133cm
			18-602 X							
			18-603 X							
			18-604 X							
			18-605 X							
24			18-606 X							
			18-607 X							
			18-608 X							
25										End of borehole LL10

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN _____


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.7 feet sample recovered)		0-79 X	10 YR 3/3	sand loam	poor			none	A horizon
2				10 YR 3/6	silty/sandy loam	poor			none	B horizon
3				10 YR 6/6	medium sand	well			none	
4										
5										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 15 feet, 7 feet sample recovered)		5-89 X	7.5 YR 5/8	medium to coarse sand	moderate				darker at ~30 cm, looks mixed
7				10 YR 5/8	coarse sand & gravel	poor				
8										
9										
10										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 2 (5 - 15 feet, 7 feet sample recovered)			10 YR 6/4	medium to coarse sand	moderate to well				cobble @ 110 cm
12										
13										
14										
15										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 3 (15 - 25 feet, 7.5 feet sample recovered)				n/a, recore					recore
17				10 YR 6/4	medium to coarse sand & gravel	moderate to well				darker at ~63 cm where there is a weathered cobble, more gravel from 60-110 cm
18										
19			15-117 X							
20										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 3 (15 - 25 feet, 7.5 feet sample recovered)			10 YR 6/4	medium to coarse sand	well				pebble at ~20 cm
22										
23										
24										
25										

20-108
X

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN _____

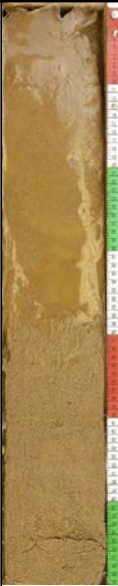
Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
26	Section 4 (25 - 45 feet, 13.6 feet sample recovered)		25-68 X	10 YR 5/6	fine to medium sand	well				
27										
28										
29										
30										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
31	Section 4 (25 - 45 feet, 13.6 feet sample recovered)		30-104 X	10 YR 5/6	fine sand	well				hint of silty clay lamination at ~20 cm
32										
33										
34										
35										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

Site Name WGNHS Central Sands LL-101-RS

County Waushara

WUWN

Lat 44.204022 **Long** -89.456614

Elevation 1122.6 ft **Method** RTK

Describer JER **Date** 1/23/20

Project Central Sands Lakes Study

Drill Method rotosonic

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
36	Section 4 (25 - 45 feet, 13.6 feet sample recovered)		35-65 X	sand: 10 YR 4/6; silty clay: 10 YR 4/4	fine sand & silty clay	well with beds and laminations	1 to 2 cm laminations of silty clay			laminations and beds disturbed during sample collection
37										
38										
39				sand: 10 YR 4/6; silty clay: 10 YR 4/4	fine to medium sand & silty clay	well with beds and laminations	1 to 2 cm laminations of silty clay			same as above section, but has more medium sand in sandy beds
40			35-122 X							

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
41	Section 4 (25 - 45 feet, 13.6 feet sample recovered)			10 YR 5/6	n/a, well sorted fine sand from 50-65 cm	moderate				well sorted fine sand from 50-65 cm
42										
43										
44										
45										

40-113
X

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County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN _____


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
46	Section 5 (45 - 65 feet, 10.4 feet sample recovered)		45-27 X	10 YR 6/4	medium to coarse sand	well				
47										
48										
49										
50										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
51	Section 5 (45 - 65 feet, 10.4 feet sample recovered)		50-96 X	10 YR 6/4	coarse sand	well to moderate				pebbles common from 80-90 cm
52										
53										
54										
55										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
56	Section 5 (45 - 65 feet, 10.4 feet sample recovered)		55-69 X	10 YR 6/4	coarse sand	moderate				large cobble at 20 cm
57										
58										
59										
60										

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SEDIMENT DESCRIPTION

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County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN

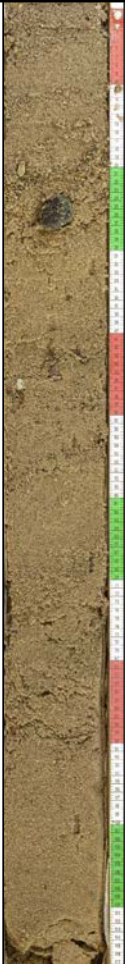
Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
61	Section 5 (45 - 65 feet, 10.4 feet sample recovered)			10 YR 5/4	coarse sand	moderate				occasional pebble
62										
63										
64										
65										

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WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
66	Section 6 (65 - 85 feet, 11.5 feet sample recovered)			10 YR 5/4	coarse to very coarse sand	well				
67										
68										
69										
70										

65-112
X

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WUWN


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Total Depth 255 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
71	Section 6 (65 - 85 feet, 11.5 feet sample recovered)		70-98 X	10 YR 6/4	coarse to very coarse sand	well				increase in pebbles at 70 cm
72										
73										
74										
75										

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Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
76	Section 6 (65 - 85 feet, 11.5 feet sample recovered)		75-68 X	10 YR 6/4	coarse to very coarse sand	well				pebbles at 50 cm
77										
78										
79										
80										

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County Waushara

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Describer JER **Date** 1/23/20

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WUWN


Elevation 1122.6 ft **Method** RTK

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
81	Section 6 (65 - 85 feet, 11.5 feet sample recovered)			10 YR 6/4	coarse to very coarse sand	well				possible black bedding plane at 80 cm
82										
83										
84										
85										

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Site Name WGNHS Central Sands LL-101-RS

WUWN _____


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Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
86	Section 7 (85 - 105 feet, 11.5 feet sample recovered)		85-23 X	10 YR 6/4	coarse to very coarse sand	well				
87										
88										
89										
90										

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WUWN _____


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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
91	Section 7 (85 - 105 feet, 11.5 feet sample recovered)			10 YR 6/4	coarse to very coarse sand	well				occasional pebbles, medium sand from 80-82 cm
92										
93										
94										
95										

90-99
X

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County Waushara

Lat 44.204022 **Long** -89.456614

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Site Name WGNHS Central Sands LL-101-RS

WUWN _____


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
96	Section 7 (85 - 105 feet, 11.5 feet sample recovered)			10 YR 6/4	coarse to very coarse sand	well				concentration of pebbles at 66 cm
97										
98										
99										
100										

95-112
X

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Lat 44.204022 **Long** -89.456614

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Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
101	Section 7 (85 - 105 feet, 11.5 feet sample recovered)			10 YR 6/4	coarse to very coarse sand	well				small pebbles from 40-50 cm
102										
103										
104										
105										

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SEDIMENT DESCRIPTION

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County Waushara

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Elevation 1122.6 ft **Method** RTK

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Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
106	Section 8 (105 - 125 feet, 10.8 feet sample recovered)			10 YR 6/4	medium to coarse sand	well				
107										
108										
109										
110										

105-73
X

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County Waushara

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Site Name WGNHS Central Sands LL-101-RS

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Elevation 1122.6 ft **Method** RTK

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Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
111	Section 8 (105 - 125 feet, 10.8 feet sample recovered)			10 YR 6/4	medium sand	well				
112										
113										
114										
115										

110-77
X

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WUWN _____


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Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
116	Section 8 (105 - 125 feet, 10.8 feet sample recovered)			10 YR 6/4	medium sand	well				
117										
118										
119										
120										

115-86
X

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County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
121	Section 8 (105 - 125 feet, 10.8 feet sample recovered)			10 YR 6/4	medium sand	well				
122										
123										
124										
125										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN _____


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
126	Section 9 (125 - 145 feet, 11.3 feet sample recovered)		125-57 X	10 YR 6/4	medium sand	well				
127										
128										
129										
130										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
131	Section 9 (125 - 145 feet, 11.3 feet sample recovered)			10 YR 6/4	medium to fine sand	well				
132										
133										
134										
135										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
136	Section 9 (125 - 145 feet, 11.3 feet sample recovered)		135-67 X	10 YR 6/4	medium to fine sand	well				gravel at bottom
137										
138										
139										
140										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN _____

Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
141	Section 9 (125 - 145 feet, 11.3 feet sample recovered)		140-8 X	10 YR 3/4	medium to very coarse sand	moderate				pebbles from 40-83 cm
			140-30 X							
142			140-60 X							
143			140-95 X							
144										
145										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN _____

Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
146	No sample recovery 145-155 feet									
147										
148										
149										
150										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN _____

Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
151	No sample recovery 145-155 feet									
152										
153										
154										
155										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN _____


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
156	Section 10 (155 - 165 feet, 5.2 feet sample recovered)		155-46 X	10 YR 6/4	very coarse sand & pebbles	moderate				
157										
158										
159										
160										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
161	Section 10 (155 - 165 feet, 5.2 feet sample recovered)			10 YR 6/4	fine to very coarse sand	moderate				occasional to abundant pebbles
162										
163										
164										
165										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN _____

Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
166	No sample recovery 165-175 feet									
167										
168										
169										
170										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN _____

Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
171	No sample recovery 165-175 feet									
172										
173										
174										
175										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN

Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
176	Section 11 (175 - 185 feet, 7.4 feet sample recovered)		175-30 X	10 YR 6/4	very coarse sand & pebbles	moderate				
177				10 YR 6/6	medium sand	well				
178			175-90 X							
179										
180										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN

Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
181	Section 11 (175 - 185 feet, 7.4 feet sample recovered)			10 YR 5/6	medium sand	well				
182										
183										
184										
185										

180-110
X

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN _____

Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
186	No sample recovery 185-190 feet									
187										
188										
189										
190										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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County Waushara

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Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN _____


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
191	Section 12 (190 - 205 feet, 10.2 feet sample recovered)			10 YR 5/6	medium to coarse sand	well				
192										
193										
194										
195										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

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County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN _____


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
196	Section 12 (190 - 205 feet, 10.2 feet sample recovered)			10 YR 5/6	medium sand	well				
197										
198										
199										
200										

195-96
X

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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Site Name WGNHS Central Sands LL-101-RS

WUWN

Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
201	Section 12 (190 - 205 feet, 10.2 feet sample recovered)			10 YR 5/4	medium to coarse sand	well				
202										
203				10 YR 5/4	fine sand	very well				
204										
205										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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County Waushara

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Site Name WGNHS Central Sands LL-101-RS

WUWN


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
206	Section 13 (205 - 225 feet, 15.8 feet sample recovered)			10 YR 5/4	medium sand	mixed				1 to 5 cm pieces of silty clay that is 5 YR 4/4
207				10 YR 5/4	fine to medium sand	well				
208										
209										
210										

205-100
X

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

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County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN

Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
211	Section 13 (205 - 225 feet, 15.8 feet sample recovered)		210-25 X	7.5 YR 4/6	very fine sand	very well	massive			core intact but surrounded by sand
212				10 YR 5/6	medium sand	well				
213										
214			210-120 X							
215										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN _____

Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
216	Section 13 (205 - 225 feet, 15.8 feet sample recovered)		215-30 X	10 Yr 6/4	medium to coarse sand	well				
217			215-58 X	7.5 YR 4/6	very fine sand	very well	massive			
218			215-80 X	10 YR 5/4	medium sand	very well				
219			215-120 X	7.5 YR 4/6	very fine to fine sand	very well	massive			
220										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

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County Waushara

Lat 44.204022 **Long** -89.456614

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Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN _____


Elevation 1122.6 ft **Method** RTK

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Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
221	Section 13 (205 - 225 feet, 15.8 feet sample recovered)		220-113 X	7.5 Yr 5/4	fine sand	very well				
222										
223										
224										
225										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

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Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN _____

Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
226	No sample recovery 225-230 feet									
227										
228										
229										
230										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

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Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN _____


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
231	Section 14 (230 - 245 feet, 8.9 feet sample recovered)				n/a, mixed - no sample					mixed - no sample
232										
233										
234										
235										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

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County Waushara

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Site Name WGNHS Central Sands LL-101-RS

WUWN


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
236	Section 14 (230 - 245 feet, 8.9 feet sample recovered)				n/a, recore					recore
237				10 YR 6/4	medium to coarse sand	moderate				occasional pebbles included in sand
238										
239										
240										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
241	Section 14 (230 - 245 feet, 8.9 feet sample recovered)				n/a, weathered sandstone					weathered sandstone
242										
243										
244										
245										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN _____

Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
246	No sample recovery 245-250 feet									
247										
248										
249										
250										

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SEDIMENT DESCRIPTION

WGNHS ID 70002367 **Field ID** LL101

County Waushara

Lat 44.204022 **Long** -89.456614

Describer JER **Date** 1/23/20

Drill Method rotosonic

Site Name WGNHS Central Sands LL-101-RS

WUWN


Elevation 1122.6 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 255 ft

Notes Nested piezometers 70002368 and 70002369 were installed in this borehole, which is adjacent to shallow water-table well 70002370

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
251	Section 15 (250 - 255 feet, 3 feet sample recovered)		250-80 X		n/a, recore, contains mafic cobble					recore, contains mafic cobble
252					n/a, friable and competent sandstone					friable and competent sandstone
253										
254										
255										



SEDIMENT DESCRIPTION

WGNHS ID 70002314 **Field ID** PFD24

County Waushara

Lat 44.18467 **Long** -89.394785

Describer Elmo **Date** 1/14/19

Drill Method rotonsonic

Notes

Site Name WGNHS Central Sands PFD24


WUWN

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.6 feet sample recovered)			10YR 2/2 Very Dark Brown	sand & gravel	poor				Disturbed, no samples taken
2										
3										
4										
5										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002314 **Field ID** PFD24

County Waushara

Lat 44.18467 **Long** -89.394785

Describer Elmo **Date** 1/14/19

Drill Method rotonsonic

Notes

Site Name WGNHS Central Sands PFD24

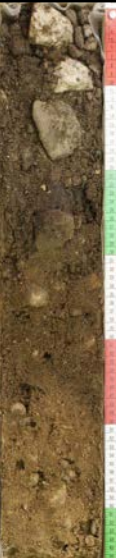
WUWN

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 15 feet, 5.4 feet sample recovered)		19-08 X	10YR 2/2 Very Dark Brown	sand & gravel	poor				Disturbed, no sample taken
7				10YR 3/4 Dark Yellowish Brown	sand & gravel	poor				
8										
9										
10										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002314 **Field ID** PFD24

County Waushara

Lat 44.18467 **Long** -89.394785

Describer Elmo **Date** 1/14/19

Drill Method rotosonic

Notes

Site Name WGNHS Central Sands PFD24


WUWN

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 2 (5 - 15 feet, 5.4 feet sample recovered)		19-09 X	10YR 7/3 Very Pale Brown	sand & gravel	poor				No gravel from 40-60cm, well sorted and course sand
12										
13										
14										
15			19-10 X							

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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County Waushara

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Notes

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Project Central Sands Lakes Study

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 3 (15 - 25 feet, 6.5 feet sample recovered)		19-11 X		n/a, Recore					Recore
17										
18				10YR 7/4 Very Pale Brown	medium sand	well				
19										
20										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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County Waushara

Lat 44.18467 **Long** -89.394785

Describer Elmo **Date** 1/14/19

Drill Method rotosonic

Notes

Site Name WGNHS Central Sands PFD24

WUWN

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
21	Section 3 (15 - 25 feet, 6.5 feet sample recovered)		19-64 X	10YR 7/4 Very Pale Brown	sand & gravel	moderate	horizontal bedding (>1cm)			Bedding of course sand at 48-57cm and very course sand at 57-62cm
22			19-12 X							
23			19-13 X							
24										
25										

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Lat 44.18467 **Long** -89.394785

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Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
26	Section 4 (25 - 45 feet, 4.3 feet sample recovered)		19-14 X	10YR 6/4 Light Yellowish Brown	coarse sand	well				Not sure this is intact
27										
28										
29										
30										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
31	Section 4 (25 - 45 feet, 4.3 feet sample recovered)									
32										
33										
34										
35										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
36	Section 4 (25 - 45 feet, 4.3 feet sample recovered)				n/a, No Sample Recovery. Driller gave us a well TIP					No Sample Recovery. Driller gave us a well TIP
37										
38										
39										
40										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
41	Section 4 (25 - 45 feet, 4.3 feet sample recovered)		19-15 X	10YR 6/3 Pale Brown	sand & gravel	moderate				Less gravel after 50cm
42										
43										
44										
45										

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Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
46	Section 5 (45 - 55 feet, 6.6 feet sample recovered)		19-16 X	10YR 6/4 Light Yellowish Brown	sand & gravel	moderate				Glacial Sediment?
47				10YR 4/4 Light Yellowish Brown	sand & gravel	well	horizontal bedding (>1cm)			Outwash? Very coarse sand bed at 73-79cm
48			19-17 X							
49										
50										

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Describer Elmo **Date** 1/14/19

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Notes

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WUWN

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
51	Section 5 (45 - 55 feet, 6.6 feet sample recovered)		19-18 X	10YR 6/4 Light Yellowish Brown	sand & gravel	moderate				
52			19-19 X	10YR 6/4 Light Yellowish Brown	sand & gravel	well	horizontal bedding (>1cm)			Beds at 55-60cm
53			19-20 X							
54										
55										

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Drill Method rotosonic

Notes

Site Name WGNHS Central Sands PFD24

WUWN _____

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
56	Section 6 (55 - 75 feet, 5.9 feet sample recovered)				n/a, Very wet, small amount of sample. No description but took photo.					Very wet, small amount of sample. No description but took photo.
57										
58										
59										
60										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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Describer Elmo **Date** 1/14/19

Drill Method rotosonic

Site Name WGNHS Central Sands PFD24

WUWN _____

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

Notes

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
61	Section 6 (55 - 75 feet, 5.9 feet sample recovered)									
62										
63										
64										
65										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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WGNHS ID 70002314 **Field ID** PFD24

County Waushara

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Describer Elmo **Date** 1/14/19

Drill Method rotosonic

Notes

Site Name WGNHS Central Sands PFD24


WUWN _____

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
66	Section 6 (55 - 75 feet, 5.9 feet sample recovered)		19-21 X	10YR 5/4 Yellowish Brown	sand & gravel	well				
67										
68										
69										
70			19-22 X							

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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WGNHS ID 70002314 **Field ID** PFD24

County Waushara

Lat 44.18467 **Long** -89.394785

Describer Elmo **Date** 1/14/19

Drill Method rotosonic

Notes

Site Name WGNHS Central Sands PFD24


WUWN _____

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
71	Section 6 (55 - 75 feet, 5.9 feet sample recovered)		19-23 X	10YR 5/4 Yellowish Brown	sand & gravel	well				
72										
73			19-24 X	10YR 5/4 Yellowish Brown	fine sand	well				
74										
75										

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Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
76	Section 7 (75 - 95 feet, 7.1 feet sample recovered)		19-25 X	10YR 5/4 Yellowish Brown	medium sand	well				Top of 20' sample interval, possible recore
77										
78										
79										
80										

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Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
81	Section 7 (75 - 95 feet, 7.1 feet sample recovered)									
82										
83										
84										
85										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
86	Section 7 (75 - 95 feet, 7.1 feet sample recovered)		19-26 X	10 YR 6/4 Light Yellowish Brown	sand & gravel	well				
87										
88										
89										
90			19-27 X							

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Describer Elmo **Date** 1/14/19

Drill Method rotosonic

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Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
91	Section 7 (75 - 95 feet, 7.1 feet sample recovered)		19-28 X	10 YR 6/4 Light Yellowish Brown	sand & gravel	well				
92										
93										
94										
95			19-29 X							

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Notes

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WUWN

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
96	Section 8 (95 - 115 feet, 14.6 feet sample recovered)		19-30 X	10YR 6/4 Light Yellowish Brown	coarse sand	well				Trace Gravel
97										
98										
99			19-31 X	10 YR 5/4 Yellowish Brown	fine sand	well				
100				10 YR 5/4 Yellowish Brown	fine sand	well				

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Describer Elmo **Date** 1/14/19

Drill Method rotonomic

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
101	Section 8 (95 - 115 feet, 14.6 feet sample recovered)			10 YR 5/4 Yellowish Brown (continued)	fine sand (continued)	well (continued)				
102										
103				7.5YR 5/4 Yellowish Brown or 4/3 Brown	fine sand	well	horizontal bedding (>1cm)			Silty clay beds at 22-26cm and 37-40cm. Looks like parts of the core slid past each other
104										
105										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002314 **Field ID** PFD24

County Waushara

Lat 44.18467 **Long** -89.394785

Describer Elmo **Date** 1/14/19

Drill Method rotonsonic

Site Name WGNHS Central Sands PFD24

WUWN



Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

Notes

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
106	Section 8 (95 - 115 feet, 14.6 feet sample recovered)		19-34 X	7.5YR 5/4 Yellowish Brown or 4/3 Brown (continued)	fine sand (continued)	well (continued)	horizontal bedding (>1cm) (continued)			Silty clay beds at 22-26cm and 37-40cm. Looks like parts of the core slid past each other (continued)
107										
108			19-35 X	10YR 5/4 Yellowish Brown	fine sand	well				
109										
110			19-36 X							

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111	Section 8 (95 - 115 feet, 14.6 feet sample recovered)				fine sand (continued)	well (continued)				
112			19-37 X	7.5YR 5/3 Brown	fine sand	well				
113			19-38 X	7.5YR 5/3 Brown	fine sand	well	horizontal bedding (>1cm)			Distorted Beds ~ 2-3cm thick with laminations
114			19-39 X							
115										

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116	Section 9 (115 - 135 feet, 18.6 feet sample recovered)		19-40	7.5 4/3 Brown	clay	well	horizontal lamination (<1cm)			
			19-41							
117			19-42							
			19-43							
118			19-44	7.5 4/3 Brown	clay	well	horizontal lamination (<1cm)			Sand Lamination at 18cm, 42cm, and 73cm
119			19-45							
120										

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121	Section 9 (115 - 135 feet, 18.6 feet sample recovered)		19-46 X	7.5 4/3 Brown (continued)	clay (continued)	well (continued)	horizontal lamination (<1 cm) (continued)			Sand Lamination at 18cm, 42cm, and 73cm (continued)
			19-47 X							
122			19-48 X							
123			19-49 X	7.5YR 4/3 Brown	clay	well	horizontal lamination (<1 cm)			
124			19-50 X							
125										

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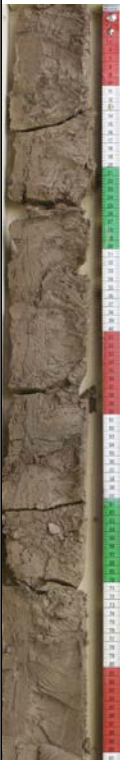
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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
126	Section 9 (115 - 135 feet, 18.6 feet sample recovered)		19-51 X	7.5YR 4/3 Brown (continued)	clay (continued)	well (continued)	horizontal lamination (<1cm) (continued)			
127										
128			19-52 X	7.5YR 4/3 Brown	clay	well	horizontal lamination (<1cm)			
129			19-53 X							
130				7.5YR 4/3 Brown	clay	well				no bedding or laminations "massive"

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
131	Section 9 (115 - 135 feet, 18.6 feet sample recovered)		19-54 X	7.5YR 4/3 Brown (continued)	clay (continued)	well (continued)				no bedding or laminations "massive" (continued)
			19-55 X	7.5YR 4/3 Brown	clay	well				sediment structure "massive"??
132			19-56 X	mixed	n/a, mixed unit					mixed unit
133			19-57 X	10YR 5/4 Yellowish Brown	medium sand	well				sediment structure "massive"
134										
135										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
136	Section 10 (135 - 155 feet, 5.3 feet sample recovered)				n/a, No Recovery (no pictures)					No Recovery (no pictures)
137										
138										
139										
140										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
141	Section 10 (135 - 155 feet, 5.3 feet sample recovered)									
142										
143										
144										
145										

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146	Section 10 (135 - 155 feet, 5.3 feet sample recovered)		19-58 X	7.5YR 5/4	medium sand	well		yes		
147										
148										
149										
150										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
151	Section 10 (135 - 155 feet, 5.3 feet sample recovered)		19-59 X	10YR 5/4 Yellowish Brown	medium sand	well		Minor		Can't decide if oxidation occurred after sampling
152										
153										
154										
155			19-60 X							

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
156	Section 11 (155 - 175 feet, 3.6 feet sample recovered)				n/a, No Recovery					No Recovery
157										
158										
159										
160										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
161	Section 11 (155 - 175 feet, 3.6 feet sample recovered)									
162										
163										
164										
165										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
166	Section 11 (155 - 175 feet, 3.6 feet sample recovered)			7.5YR 4/4	coarse sand	well				Trace Gravel
167										
168										
169										
170										

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171	Section 11 (155 - 175 feet, 3.6 feet sample recovered)			7.5YR 5/3	medium sand	well				
172			19-61 X							
173			19-62 X							
174										
175										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
176	Section 12 (175 - 195 feet, 5.7 feet sample recovered)				n/a, No Recovery					No Recovery
177										
178										
179										
180										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
181	Section 12 (175 - 195 feet, 5.7 feet sample recovered)									
182										
183										
184										
185										

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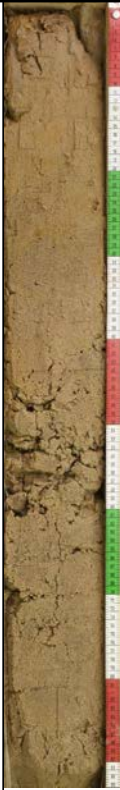
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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
186	Section 12 (175 - 195 feet, 5.7 feet sample recovered)		19-63 X	7.5YR 5/4	medium sand	well				
187										
188										
189										
190										

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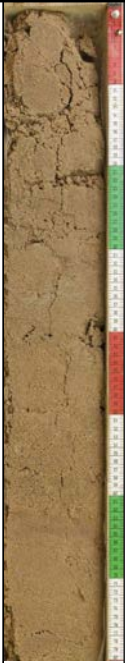
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191	Section 12 (175 - 195 feet, 5.7 feet sample recovered)		19-65 X	10YR 5/4	medium sand	well				
192										
193										
194										
195			19-66 X							

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
196	Section 13 (195 - 215 feet, 5.2 feet sample recovered)				n/a, No Recovery					No Recovery
197										
198										
199										
200										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
201	Section 13 (195 - 215 feet, 5.2 feet sample recovered)									
202										
203										
204										
205										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
206	Section 13 (195 - 215 feet, 5.2 feet sample recovered)		19-67 X	10YR 5/4 Yellowish Brown	medium sand	well				
207										
208										
209										
210			19-68 X							

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211	Section 13 (195 - 215 feet, 5.2 feet sample recovered)		19-69 X	10YR 5/4 Yellowish Brown	medium sand	well				
212										
213										
214										
215										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
216	Section 14 (215 - 235 feet, 8.2 feet sample recovered)		19-71 X							
217										
218										
219										
220										

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SEDIMENT DESCRIPTION

WGNHS ID 70002314 **Field ID** PFD24

County Waushara

Lat 44.18467 **Long** -89.394785

Describer Elmo **Date** 1/14/19

Drill Method rotosonic

Notes

Site Name WGNHS Central Sands PFD24

WUWN

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
221	Section 14 (215 - 235 feet, 8.2 feet sample recovered)			10YR 5/4 Yellowish Brown	medium sand	well				trace gravel
222			19-72 X							
223			19-73 X							
224										
225										

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226	Section 14 (215 - 235 feet, 8.2 feet sample recovered)		19-74 X	10YR 5/4 Yellowish Brown	medium sand	well	horizontal bedding (>1cm)			Bedding evident still sand disturbed from collection
227										
228										
229										
230			19-75 X							

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
231	Section 14 (215 - 235 feet, 8.2 feet sample recovered)		19-76 X	7.5YR 5/4	medium sand	well	horizontal lamination (<1cm)			
232										
233										
234										
235			19-77 X							

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
236	Section 15 (235 - 255 feet, 7.5 feet sample recovered)									
237			19-78 X							
238										
239			19-79 X							
240										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
241	Section 15 (235 - 255 feet, 7.5 feet sample recovered)		19-80 X	7.5YR 5/4	coarse sand	well				Hints of bedding in sand. Travel of Pebbles
242										
243										
244										
245			19-81 X							

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
246	Section 15 (235 - 255 feet, 7.5 feet sample recovered)		19-82 X	10YR 5/4 Yellowish Brown	coarse sand	well	horizontal bedding (>1cm)			hints of bedding and laminations
247										
248										
249										
250			19-83 X							

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251	Section 15 (235 - 255 feet, 7.5 feet sample recovered)		19-84 X	10YR 4/3 Brown	medium sand	well	horizontal lamination ($<1\text{cm}$)			can see intact core surrounded sand that occurred during sampling. Laminations of silt and sand.
252			19-85 X							
253										
254										
255										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
256	Section 16 (255 - 275 feet, 4 feet sample recovered)				n/a, No Recovery					No Recovery
257										
258										
259										
260										

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261	Section 16 (255 - 275 feet, 4 feet sample recovered)		19-86 X	10YR 5/4 Yellowish Brown	fine sand	well				Very saturated. Distorted silty clay at 36-41cm
262			19-87 X							
263			19-88 X							
264										
265										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
266	Section 16 (255 - 275 feet, 4 feet sample recovered)		19-89 X	10YR 4/4 Dark Yellowish Brown	coarse sand	moderate				Some duplicate sample from 70-90cm looks like parts of laminated section mixed with sand
267			19-90 X							
268			19-91 X							
269										
270										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
271	Section 16 (255 - 275 feet, 4 feet sample recovered)		19-92 X	10YR 4/4 Dark Yellowish Brown	coarse sand	moderate				coarser at 41-56cm
272			19-93 X							
273			19-94 X							
274										
275										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
276	Section 17 (275 - 295 feet, 14.3 feet sample recovered)		19-95 X	10YR 4/3 Brown	clay	well	horizontal lamination ($<1\text{cm}$)			
277										
278										
279										
280										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
281	Section 17 (275 - 295 feet, 14.3 feet sample recovered)		19-96 X	10YR 4/3 Brown	clay	moderate	horizontal lamination (<1cm)			sandy at 2cm, beds at 33cm
			19-97 X							
282			19-98 X							
283			19-99 X							
284										
285										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
286	Section 17 (275 - 295 feet, 14.3 feet sample recovered)		19-100 X	7.5YR 5/2	silt	well				sharp
			19-101 X	7.5YR 4/2	clay	well				
287										
288			19-102 X	7.5YR 5/3	fine sand	well				
289			19-103 X	7.5YR 4/3	clay	well	horizontal lamination (<1cm)			
				7.5YR 5/3	fine sand	well				
290										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
291	Section 17 (275 - 295 feet, 14.3 feet sample recovered)		19-104 X	7.5YR 5/3 (continued)	fine sand (continued)	well (continued)				
292			19-105 X	7.5YR 5/3	fine sand	well				
293			19-106 X	7.5YR 4/3	clay	well			weak	
294			19-107 X	7.5YR 5/3	medium sand	well				
295										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
296	Section 18 (295 - 305 feet, 7.9 feet sample recovered)		19-108 X	7.5YR 4/3	clay	well			weak	
297				7.5YR 5/3	fine sand	well	horizontal bedding (>1cm)			medium sand bed at contact 49-52cm
298			19-109 X							
299										
300										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
301	Section 18 (295 - 305 feet, 7.9 feet sample recovered)		19-110 X	7.5YR 5/3	clay	well				one medium sand bed at 76-83cm
302										
303										
304										
305										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
306	Section 19 (305 - 325 feet, 6.5 feet sample recovered)				n/a, No Recovery					No Recovery
307										
308										
309										
310										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
311	Section 19 (305 - 325 feet, 6.5 feet sample recovered)									
312										
313										
314										
315										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
316	Section 19 (305 - 325 feet, 6.5 feet sample recovered)		19-113 X	7.5YR 5/3	clay	well				
317			19-114 X	7.5YR 5/4	medium sand	well				
318										
319										
320										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
321	Section 19 (305 - 325 feet, 6.5 feet sample recovered)		19-115 X	7.5YR 5/3	fine sand	well				
322			19-116 X	7.5YR 5/3	medium sand	well				
323			19-117 X	7.5YR 5/4	clay	well				
324			19-118 X	7.5YR 5/3	coarse sand	well				
					n/a, Cobble					Cobble
325										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
326	Section 20 (325 - 345 feet, 1.4 feet sample recovered)				n/a, No Recovery					No Recovery
327										
328										
329										
330										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
331	Section 20 (325 - 345 feet, 1.4 feet sample recovered)									
332										
333										
334										
335										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
336	Section 20 (325 - 345 feet, 1.4 feet sample recovered)									
337										
338										
339										
340										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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Describer Elmo **Date** 1/14/19

Drill Method rotonomic

Notes

Site Name WGNHS Central Sands PFD24


WUWN

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
341	Section 20 (325 - 345 feet, 1.4 feet sample recovered)		19-120 X		sand & gravel	well				Possible pebble bed at 43cm, large cobble at 6cm. Gravel well rounded
342										
343										
344										
345										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002314 **Field ID** PFD24

County Waushara

Lat 44.18467 **Long** -89.394785

Describer Elmo **Date** 1/14/19

Drill Method rotosonic

Site Name WGNHS Central Sands PFD24

WUWN _____

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

Notes

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
346	Section 21 (345 - 365 feet, 4.6 feet sample recovered)				n/a, No Recovery					No Recovery
347										
348										
349										
350										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002314 **Field ID** PFD24

County Waushara

Lat 44.18467 **Long** -89.394785

Describer Elmo **Date** 1/14/19

Drill Method rotosonic

Site Name WGNHS Central Sands PFD24

WUWN _____

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

Notes

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
351	Section 21 (345 - 365 feet, 4.6 feet sample recovered)									
352										
353										
354										
355										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002314 **Field ID** PFD24

County Waushara

Lat 44.18467 **Long** -89.394785

Describer Elmo **Date** 1/14/19

Drill Method rotosonic

Notes

Site Name WGNHS Central Sands PFD24


WUWN _____

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
356	Section 21 (345 - 365 feet, 4.6 feet sample recovered)		19-121 X	10YR 5/3	sand & gravel	well				Well Rounded Gravel
357										
358										
359										
360										

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County Waushara

Lat 44.18467 **Long** -89.394785

Describer Elmo **Date** 1/14/19

Drill Method rotosonic

Notes

Site Name WGNHS Central Sands PFD24

WUWN

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
361	Section 21 (345 - 365 feet, 4.6 feet sample recovered)		19-122 X	10YR 5/4	coarse sand	well	horizontal lamination (<1cm)			Hints of laminating in sand
362			19-123 X	7.5YR 4/6	medium sand	well				Core retains its shape more
363			19-124 X	7.5YR 5/4	sand & gravel	well				
364			19-125 X							
365										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002314 **Field ID** PFD24

County Waushara

Lat 44.18467 **Long** -89.394785

Describer Elmo **Date** 1/14/19

Drill Method rotosonic

Notes

Site Name WGNHS Central Sands PFD24

WUWN _____

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
366	Section 22 (365 - 385 feet, 11.2 feet sample recovered)				n/a, No Recovery					No Recovery
367										
368										
369										
370										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

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County Waushara

Lat 44.18467 **Long** -89.394785

Describer Elmo **Date** 1/14/19

Drill Method rotonsonic

Notes

Site Name WGNHS Central Sands PFD24

WUWN

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
371	Section 22 (365 - 385 feet, 11.2 feet sample recovered)		19-126 X	7.5YR 5/4	coarse sand	well				Possible recore top of flight
				7.5YR 4/3	sand & gravel	poor				
372				7.5YR 4/3	coarse sand	well				
373			19-127 X							
374										
375										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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Describer Elmo **Date** 1/14/19

Drill Method rotosonic

Notes

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Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
376	Section 22 (365 - 385 feet, 11.2 feet sample recovered)		19-128 X	7.5YR 5/3	coarse sand	well				
			19-129 X	7.5YR 4/6	sand & gravel	well				
377				7.5YR 5/3	coarse sand	well				
378			19-130 X							
379										
380										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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Describer Elmo **Date** 1/14/19

Drill Method rotosonic

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Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
381	Section 22 (365 - 385 feet, 11.2 feet sample recovered)		19-131 X	10YR 5/4	coarse sand	well				Cobble at 15cm
382										
383										
384										
385			19-132 X							

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Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
386	Section 23 (385 - 405 feet, 14.7 feet sample recovered)		19-133 X	7.5YR 5/4	sand & gravel	well		oxidation at 30cm 5YR 4/6		1 quartzite cobble
387										
388										
389										
390										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
391	Section 23 (385 - 405 feet, 14.7 feet sample recovered)		19-135 X	7.5YR 5/4	sand & gravel	moderate				weathered sandstone from 26-44cm
392										
393			19-136 X							
394			19-137 X							
395										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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Drill Method rotosonic

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Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
396	Section 23 (385 - 405 feet, 14.7 feet sample recovered)		19-138 X	7.5YR 5/4	sand & gravel	moderate				
397										
398										
399										
400										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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Site Name WGNHS Central Sands PFD24

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Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
401	Section 23 (385 - 405 feet, 14.7 feet sample recovered)			7.5YR 5/4	n/a,	well				
				7.5YR 5/4	fine sand	well				sand with densa and this dark material from drill on one side of sample
402			19-140 X							
			19-141 X							
403										
			19-142 X							
404										
405										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



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Drill Method rotonsonic

Notes

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WUWN

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
406	Section 24 (405 - 416.5 feet, 10.4 feet sample recovered)		19-143 X	7.5YR 5/4	sand & gravel	well				Piece of metal at 5cm. Cobbles between 7-36cm
407			19-144 X							
408				10YR 6/4	sand & gravel	well				
409			19-145 X							
410										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002314 **Field ID** PFD24

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Lat 44.18467 **Long** -89.394785

Describer Elmo **Date** 1/14/19

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Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
411	Section 24 (405 - 416.5 feet, 10.4 feet sample recovered)		19-146 X	10YR 6/4 (continued)	sand & gravel (continued)	well (continued)				
				5YR 4/4	sand & gravel	moderate				mixed red clay from below and sand?
					n/a, weathered granite					weathered granite
					n/a, weathered granite					weathered granite
412										
413										
414										
415										

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002314 **Field ID** PFD24

County Waushara

Lat 44.18467 **Long** -89.394785

Describer Elmo **Date** 1/14/19

Drill Method rotosonic

Notes

Site Name WGNHS Central Sands PFD24


WUWN _____

Elevation 1131 ft **Method** 10-m DEM

Project Central Sands Lakes Study

Total Depth 416.5 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
										weathered granite (continued)
416										

End of borehole
PFD24.

*Samples were collected over the entire sample run (ranging from 5 to 20 feet), were split in the field into <5-ft lengths for handling, and cannot be tied to a specific depth within the run. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002281 **Field ID** PFL01

County Waushara

Lat 44.20928 **Long** -89.47345

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes

Site Name WGNHS Central Sands PFL01


WUWN

Elevation 1145.74 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 12 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.4 feet sample recovered)		18-279 X 18-280 X	10 YR 4/2 Dark Grayish Brown	medium sand	well				Road grade
2				7.5 YR 4/6 Strong Brown	sand & gravel	moderate			weak around clasts	Silty med sand w/ gravel, slightly darker color around clasts
3				7.5 YR 6/4 Light Brown	coarse sand	well				Med-coarse sand
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002281 **Field ID** PFL01

County Waushara

Lat 44.20928 **Long** -89.47345

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes

Site Name WGNHS Central Sands PFL01

WUWN

Elevation 1145.74 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 12 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
	Section 2 (5 - 10 feet, 3.4 feet sample recovered)		18-281 X		n/a, Recore					Recore
6				7.5 YR 6/4 Light Brown	sand & gravel	poor				Med sand & gravel
7				7.5 YR 4/6 Strong Brown	medium sand	moderate			weak on clasts	Silty med sand, clasts @ 49-52cm, 59-62cm
8				7.5 YR 8/3 Pink	sand & gravel	moderate		Oxidation @ 81-82cm		Med sand & gravel
9				2.5 Y 3/2 Very Dark Grayish Brown	n/a, Crushed rock					Crushed rock
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002281 **Field ID** PFL01

County Waushara

Lat 44.20928 **Long** -89.47345

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes _____

Site Name WGNHS Central Sands PFL01


WUWN _____

Elevation 1145.74 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 12 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 12 feet, 2.1 feet sample recovered)				n/a, Recore					Recore
12				7.5 YR 8/3 Pink	sand & gravel	poor			weak around clasts	Med-coarse sand & gravel, crushed rock

18-284

End of borehole
PFL01.

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002282 **Field ID** PFL01B

County Waushara

Lat 44.2093 **Long** -89.47345

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes

Site Name WGNHS Central Sands PFL01B


WUWN

Elevation 1145.64 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 44 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 1.6 feet sample recovered)		18-261 X	10 YR 4/2 Dark Grayish Brown	medium sand	well				
				7.5 YR 4/6 Strong Brown	sand & gravel	moderate				Fine-med sand & gravel
				7.5 YR 3/4 Dark Brown	sand & gravel	moderate				Clayish med sand & gravel
				7.5 YR 6/4 Light Brown	sand & gravel	moderate				Med sand & gravel
2										
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002282 **Field ID** PFL01B

County Waushara

Lat 44.2093 **Long** -89.47345

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes

Site Name WGNHS Central Sands PFL01B

WUWN

Elevation 1145.64 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 44 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
	Section 2 (5 - 10 feet, 2 feet sample recovered)				n/a, Recore					Recore
			18-263 X	7.5 YR 6/4 Light Brown	fine sand	well				
6			18-264 X	7.5 YR 5/4 Brown	medium sand	well				Broken Clast @ 22-29cm
			18-265 X	7.5 YR 8/3 Pink	sand & gravel	poor				Med-coarse sand & gravel, broken clast @ 53-62cm
7			18-266 X							
8										
9										
10										

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SEDIMENT DESCRIPTION

WGNHS ID 70002282 **Field ID** PFL01B

County Waushara

Lat 44.2093 **Long** -89.47345

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

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Site Name WGNHS Central Sands PFL01B


WUWN _____

Elevation 1145.64 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 44 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 12 feet, 1 foot sample recovered)		18-267 X	10 YR 3/3 Dark Brown	medium sand	poor			strong on clasts	Med-coarse sand crushed rock
				2.5 Y 5/1 Gray	medium sand	poor			strong on clasts	Med-coarse sand crushed rock
				7.5 YR 8/3 Pink	medium sand	poor			strong on clasts	Med-coarse sand crushed rock
12										
13										
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002282 **Field ID** PFL01B

County Waushara

Lat 44.2093 **Long** -89.47345

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

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Site Name WGNHS Central Sands PFL01B

WUWN _____

Elevation 1145.64 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 44 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
16	Section 4 (12 - 20 feet, 0 feet sample recovered)									n/a No Recovery
17										
18										
19										
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002282 **Field ID** PFL01B

County Waushara

Lat 44.2093 **Long** -89.47345

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes

Site Name WGNHS Central Sands PFL01B


WUWN

Elevation 1145.64 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 44 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 3.6 feet sample recovered)				n/a, Recore					Recore
22										
23				7.5 YR 8/3 Pink	coarse sand	poor			weak	Med-coarse sand & gravel, crushed rocks
24										
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002282 **Field ID** PFL01B

County Waushara

Lat 44.2093 **Long** -89.47345

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes

Site Name WGNHS Central Sands PFL01B

WUWN

Elevation 1145.64 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 44 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
26	Section 6 (25 - 30 feet, 4 feet sample recovered)			10 YR 5/2 Grayish Brown	sand & gravel	poor			weak	Med-coarse sand & gravel, trace silt
			18-269 18-270	7.5 YR 4/4 Brown	sand & gravel	poor				Clayish fine-med sand & gravel
27				10 YR 4/2 Dark Grayish Brown	sand & gravel	poor			weak	Med-coarse sand & gravel, crushed rock throughout
28			18-271							
29			18-272							
30										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002282 **Field ID** PFL01B

County Waushara

Lat 44.2093 **Long** -89.47345

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes

Site Name WGNHS Central Sands PFL01B


WUWN

Elevation 1145.64 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 44 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
31	Section 7 (30 - 35 feet, 4.8 feet sample recovered)		18-274 X	10 YR 5/3 Brown	sand & gravel	poor			strong on clasts	Med-coarse sand & gravel, possible recore, crushed rocks
32										
33				7.5 YR 6/4 Light Brown	sand & gravel	poor			strong on clasts	Med-coarse sand & gravel, crushed rocks
34										
35										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002282 **Field ID** PFL01B

County Waushara

Lat 44.2093 **Long** -89.47345

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes _____

Site Name WGNHS Central Sands PFL01B


WUWN _____

Elevation 1145.64 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 44 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
36	Section 8 (35 - 40 feet, 4.3 feet sample recovered)				n/a, Recore					Recore
37				7.5 YR 7/3 Pink	sand & gravel	poor			weak on clasts	Med sand & gravel, crushed rocks
38										
39										
40										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002282 **Field ID** PFL01B

County Waushara

Lat 44.2093 **Long** -89.47345

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes _____

Site Name WGNHS Central Sands PFL01B

WUWN _____

Elevation 1145.64 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 44 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
41	Section 9 (40 - 44 feet, 3.9 feet sample recovered)			10 YR 5/3 Brown	sand & gravel	poor			weak on clasts	Med-coarse sand & gravel, possible recore, trace silt, crushed rock
42										
43										
44										

18-278
X

End of borehole
PFL01B.

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002283 **Field ID** PFL02

County Waushara

Lat 44.20893 **Long** -89.47474

Describer S. Dodge **Date** 7/30/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PFL02


WUWN VQ808

Elevation 1123.45 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 35 ft

For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 3 feet sample recovered)		18-286 X	10 YR 4/2 Dark Grayish Brown	medium sand	well				Coated medium-coarse sand, road grade
2				10 YR 4/4 Dark Yellowish Brown	medium sand	well	horizontal bedding (>1cm)			H. bedding granules/gravel beds @ 50-57cm, 63-76cm, 83-90cm (large gravel), beds are well sorted, Entire Core is mod. Sorted
3				7.5 YR 4/6 Strong Brown	medium sand	well				
4			18-287 X							
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002283 **Field ID** PFL02 **Site Name** WGNHS Central Sands PFL02
County Waushara **WUWN** VQ808
Lat 44.20893 **Long** -89.47474 **Elevation** 1123.45 ft **Method** RTK
Describer S. Dodge **Date** 7/30/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 35 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
	Section 2 (5 - 10 feet, 2 feet sample recovered)		18-289 X		n/a, Recore					Recore
6				7.5 YR 5/6 Strong Brown	medium sand	moderate				Medium-coarse sand, slightly distorted laminations, gravel @ 15-17cm, 34-37cm
7				7.5 YR 7/4 Pink	medium sand	moderate				Medium-coarse sand, gravel @ 42-44cm, 57-60cm, organics
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002283 **Field ID** PFL02 **Site Name** WGNHS Central Sands PFL02
County Waushara **WUWN** VQ808
Lat 44.20893 **Long** -89.47474 **Elevation** 1123.45 ft **Method** RTK
Describer S. Dodge **Date** 7/30/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 35 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 4.5 feet sample recovered)		18-290 X	7.5 YR 8/3 Pink	sand & gravel	poor	horizontal bedding (>1cm)		strong	Recore, distorted
12										Medium sand & gravel w/ coarser sand and gravel beds, loose H. bedding @ 49-54cm, 68-78cm, med sand laminations @ 78-82cm, strong reaction with HCl @ carbonates 119-131cm
13			18-291 X							
14			18-292 X							
15			18-293 X							

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002283 **Field ID** PFL02 **Site Name** WGNHS Central Sands PFL02
County Waushara **WUWN** VQ808
Lat 44.20893 **Long** -89.47474 **Elevation** 1123.45 ft **Method** RTK
Describer S. Dodge **Date** 7/30/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 35 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 4.8 feet sample recovered)				n/a, Recore					Recore
17				10 YR 7/4 Very Pale Brown	sand & gravel	moderate				Medium-coarse sand & gravel
18				10 YR 7/3 Very Pale Brown	sand & gravel	well	horizontal lamination (<1cm)			Medium sand w/ minimal gravel, slight H. lamination & coarser grained beds @ 104-111cm, 128-131cm
19										
20			18-295 X							

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002283 **Field ID** PFL02 **Site Name** WGNHS Central Sands PFL02
County Waushara **WUWN** VQ808
Lat 44.20893 **Long** -89.47474 **Elevation** 1123.45 ft **Method** RTK
Describer S. Dodge **Date** 7/30/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 35 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 4.2 feet sample recovered)				n/a, Recore, distorted					Recore, distorted
22										
23				10 YR 7/4 Very Pale Brown	sand & gravel	poor			weak, some carbonates	Medium-coarse sand & gravel, heavy gravel, wet core @ 95cm, minimal silt, Diamict?
24										
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002283 **Field ID** PFL02

County Waushara

Lat 44.20893 **Long** -89.47474

Describer S. Dodge **Date** 7/30/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PFL02

WUWN VQ808

Elevation 1123.45 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 35 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
					n/a, Recore					Recore
26				10 YR 5/4 Yellowish Brown	medium sand	well	horizontal lamination (<1cm)			Possible Recore
				10 YR 5/4 Yellowish Brown	coarse sand	poor				Medium-coarse sand w/gravel, heavy gravel, minimal silt, diamict
27										
28										
29				10 YR 5/4 Yellowish Brown	coarse sand	moderate				Medium-coarse sand w/ gravel, less gravel, minimal silt, diamict
30										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002283 **Field ID** PFL02

County Waushara

Lat 44.20893 **Long** -89.47474

Describer S. Dodge **Date** 7/30/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PFL02

WUWN VQ808

Elevation 1123.45 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 35 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
31	Section 7 (30 - 35 feet, 4.8 feet sample recovered)			10 YR 5/4 Yellowish Brown	n/a, Recore coarse sand	poor				Recore
										Medium-coarse sand w/ gravel, large gravel @ 4-27cm and 111-146cm, minimal gravel @ 93-101cm, minimal silt, diamict
32										
33										
34										
35			18-304 X							End of borehole PFL02

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002284 **Field ID** PFL02B

County Waushara

Lat 44.20892 **Long** -89.47474

Describer S. Dodge **Date** 7/30/18

Drill Method direct push

Notes _____

Site Name WGNHS Central Sands PFL02B


WUWN _____

Elevation 1123.45 ft **Method** RTK_Assume

Project Central Sands Lakes Study

Total Depth 35 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.7 feet sample recovered)		18-306 X	10 YR 4/4 Dark Yellowish Brown	medium sand	well				Crushed Rock @ 35-48cm
2				10 YR 4/6 Dark Yellowish Brown	medium sand	well				Fine-med sand, 10 YR 3/6 clayish sand @ 68-75cm, crushed rock @ 75-80cm
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002284 **Field ID** PFL02B

County Waushara

Lat 44.20892 **Long** -89.47474

Describer S. Dodge **Date** 7/30/18

Drill Method direct push

Notes _____

Site Name WGNHS Central Sands PFL02B


WUWN _____

Elevation 1123.45 ft **Method** RTK_Assume

Project Central Sands Lakes Study

Total Depth 35 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 2.5 feet sample recovered)		18-308 ×	10 YR 4/6 Dark Yellowish Brown	sand & gravel	poor				Clayish med. sand with gravel
				10 YR 7/4 Very Pale Brown	sand & gravel	moderate				Med sand w/ gravel, clasts @ 33cm, 41-46cm, 52-54cm, 58-63cm
7			18-309 ×	10 YR 7/3 Very Pale Brown	sand & gravel	moderate				Med-coarse sand & gravel
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002284 **Field ID** PFL02B

County Waushara

Lat 44.20892 **Long** -89.47474

Describer S. Dodge **Date** 7/30/18

Drill Method direct push

Notes _____

Site Name WGNHS Central Sands PFL02B


WUWN _____

Elevation 1123.45 ft **Method** RTK_Assume

Project Central Sands Lakes Study

Total Depth 35 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 3.1 feet sample recovered)		18-310 X	10 YR 7/3 Very Pale Brown	medium sand	well				Med sand with minimal gravel
12				10 YR 7/3 Very Pale Brown	sand & gravel	poor		Oxidation @ 76-80cm	weak	Med-coarse sand & gravel
13										
14			18-311 X							
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002284 **Field ID** PFL02B

County Waushara

Lat 44.20892 **Long** -89.47474

Describer S. Dodge **Date** 7/30/18

Drill Method direct push

Notes _____

Site Name WGNHS Central Sands PFL02B


WUWN _____

Elevation 1123.45 ft **Method** RTK_Assume

Project Central Sands Lakes Study

Total Depth 35 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 1.7 feet sample recovered)		18-312 X	10 YR 5/4 Yellowish Brown	medium sand	well				Med-Coarse Sand
				10 YR 7/3 Very Pale Brown	medium sand	well				Crushed Rock @ 44-52cm
17			18-313 X 18-314 X							
18										
19										
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002284 **Field ID** PFL02B

County Waushara

Lat 44.20892 **Long** -89.47474

Describer S. Dodge **Date** 7/30/18

Drill Method direct push

Notes _____

Site Name WGNHS Central Sands PFL02B


WUWN _____

Elevation 1123.45 ft **Method** RTK_Assume

Project Central Sands Lakes Study

Total Depth 35 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 2.3 feet sample recovered)		18-316 X	10 YR 5/4 Yellowish Brown	sand & gravel	poor			moderate	Coarse sand & gravel, crushed rock @ 0-8cm, wet core, carbonates, minimal silt, diamict?
22										
23										
24										
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002284 **Field ID** PFL02B

County Waushara

Lat 44.20892 **Long** -89.47474

Describer S. Dodge **Date** 7/30/18

Drill Method direct push

Notes _____

Site Name WGNHS Central Sands PFL02B

WUWN _____

Elevation 1123.45 ft **Method** RTK_Assume

Project Central Sands Lakes Study

Total Depth 35 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
26	Section 6 (25 - 30 feet, 1.6 feet sample recovered)		18-318 X	10 YR 5/4 Yellowish Brown	sand & gravel	poor				Med sand & gravel, large gravel @ 0-10cm
27				10 YR 5/4 Yellowish Brown	sand & gravel	poor			moderate	Med-coarse sand & gravel, large gravel @ 30cm, 40-48cm, minimal silt and diamict?
28										
29										
30										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002284 **Field ID** PFL02B

County Waushara

Lat 44.20892 **Long** -89.47474

Describer S. Dodge **Date** 7/30/18

Drill Method direct push

Notes

Site Name WGNHS Central Sands PFL02B


WUWN

Elevation 1123.45 ft **Method** RTK_Assume

Project Central Sands Lakes Study

Total Depth 35 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
31	Section 7 (30 - 35 feet, 2.6 feet sample recovered)		18-324 ×	10 YR 5/4 Yellowish Brown	medium sand	well				Med-Coarse Sand, minimal gravel
				10 YR 5/4 Yellowish Brown	sand & gravel	poor			weak	Med Sand & Gravel, same core section @19cm-80cm
				10 YR 5/4 Yellowish Brown	medium sand	poor			weak	
				10 YR 5/4 Yellowish Brown	sand & gravel	poor			weak	Med Sand & Gravel
				10 YR 5/4 Yellowish Brown	medium sand	poor			weak	Med Sand & Gravel
32				10 YR 5/4 Yellowish Brown	sand & gravel	poor			weak	
33										End of borehole PFL02B.
34										
35										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002285 **Field ID** PFL03 **Site Name** WGNHS Central Sands PFL03
County Waushara **WUWN** VQ809
Lat 44.20476 **Long** -89.46942 **Elevation** 1121.67 ft **Method** RTK
Describer Ana Genthe **Date** 10/16/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 35 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2 feet sample recovered)		18-1189 ×	7.5 YR 3/2 Dark Brown	medium sand	moderate				Road grade, medium grained silty sand, rounded, same bed from 0-24cm
				10 YR 4/4 Dark Yellowish Brown	medium sand	moderate				Road grade, medium grained silty sand, rounded
				7.5 YR 4/6 Strong Brown	sand & gravel	moderate				Medium grained sand, rounded and submerged gravel, ~5% gravel
2										
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002285 **Field ID** PFL03 **Site Name** WGNHS Central Sands PFL03
County Waushara **WUWN** VQ809
Lat 44.20476 **Long** -89.46942 **Elevation** 1121.67 ft **Method** RTK
Describer Ana Genthe **Date** 10/16/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 35 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 1.3 feet sample recovered)		18-1191 X	10 YR 3/4 Dark Yellowish Brown	medium sand	moderate	horizontal bedding (>1cm)			Recore, medium grained silty sand, rounded
				7.5 YR 6/4 Light Brown	medium sand	moderate	horizontal bedding (>1cm)			Medium grained sand, rounded, bedding color: 7.5 YR 4/6 Strong Brown
7										
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002285 **Field ID** PFL03 **Site Name** WGNHS Central Sands PFL03
County Waushara **WUWN** VQ809
Lat 44.20476 **Long** -89.46942 **Elevation** 1121.67 ft **Method** RTK
Describer Ana Genthe **Date** 10/16/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 35 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 3.3 feet sample recovered)			7.5 YR 3/4 Dark Brown	medium sand	well	horizontal bedding (>1cm)			Possible recore, medium grained silty sand, rounded, horizontal bedding varying in color
				7.5 YR 5/3 Brown	medium sand	moderate				41-46cm clast, ~10% gravel, medium to coarse grained sand and gravel, rounded
12				7.5 YR 6/4 Light Brown	sand & gravel	well	horizontal bedding (>1cm)			Medium grained sand + gravel, rounded, single horizontal bed of small gravel,
				10 YR 5/3 Brown	sand & gravel	poor				63-66cm small gravel bed, <5% gravel
13				7.5 YR 7/3 Pink	sand & gravel	moderate				Medium grained sand + gravel, rounded, ~30% gravel
14										Medium grained sand + gravel, well rounded, ~5% gravel
15										


*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002285 **Field ID** PFL03 **Site Name** WGNHS Central Sands PFL03
County Waushara **WUWN** VQ809
Lat 44.20476 **Long** -89.46942 **Elevation** 1121.67 ft **Method** RTK
Describer Ana Genthe **Date** 10/16/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 35 ft
Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 3.5 feet sample recovered)		18-1200 X	7.5 YR 3/3 Dark Brown	medium sand	moderate	lamination (<1 cm)			Recore, medium grained silty sand, rounded, distorted lamination
17				7.5 YR 6/4 Light Brown	coarse sand	poor	horizontal bedding (>1 cm)		weak	Medium to coarse grained sand +gravel, rounded, ~10% gravel, 62-64.5cm well sorted fine grained sand bed, clasts @74-79cm dolomite, faint horizontal beds
18				7.5 YR 4/3 Brown	fine sand	poor	horizontal bedding (>1 cm)		weak	Fine grained silty sand, rounded, faint horizontal bed, ~25%gravel, horizontal color:7.5 YR 7/3 Pink
19										
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002285 **Field ID** PFL03 **Site Name** WGNHS Central Sands PFL03
County Waushara **WUWN** VQ809
Lat 44.20476 **Long** -89.46942 **Elevation** 1121.67 ft **Method** RTK
Describer Ana Genthe **Date** 10/16/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 35 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 4.1 feet sample recovered)			7.5 YR 4/3 Brown	sand & gravel	moderate	horizontal lamination (<1cm)			Recore, medium grained silty sand and gravel, rounded
22				10 YR 6/3 Pale Brown	coarse sand	poor	horizontal bedding (>1cm)			Medium to coarse grained rounded sand and subrounded gravel, ~10% gravel
23				10 YR 7/3 Very Pale Brown	medium sand	well				
24			18-1203 X							
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002285 **Field ID** PFL03 **Site Name** WGNHS Central Sands PFL03
County Waushara **WUWN** VQ809
Lat 44.20476 **Long** -89.46942 **Elevation** 1121.67 ft **Method** RTK
Describer Ana Genthe **Date** 10/16/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 35 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
26	Section 6 (25 - 30 feet, 2.2 feet sample recovered)		18-1205 ×	10 YR 5/4 Yellowish Brown	coarse sand	poor				Medium to coarse grained sand + gravel, subrounded, ~10% gravel
27										
28										
29										
30										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002285 **Field ID** PFL03 **Site Name** WGNHS Central Sands PFL03
County Waushara **WUWN** VQ809
Lat 44.20476 **Long** -89.46942 **Elevation** 1121.67 ft **Method** RTK
Describer Ana Genthe **Date** 10/16/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 35 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
31	Section 7 (30 - 35 feet, 2.4 feet sample recovered)		18-1207 X	10 YR 6/4 Light Yellowish Brown	medium sand	poor	horizontal bedding (>1cm)			Rounded, beds are fine grained and well sorted @ 35-40cm and 65-72cm, horizontal beds of fine grained well sorted @35-40cm and 65-72cm
32										
33										
34										
35										End of borehole PFL03.

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002286 **Field ID** PFL04

County Waushara

Lat 44.2088 **Long** -89.47771

Describer Ana Genthe **Date** 9/24/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PFL04

WUWN VQ810

Elevation 1105.84 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 22 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.6 feet sample recovered)		18-1051		n/a, Road Grade					Road Grade
2				7.5 YR 5/2 brown	medium sand	well				Medium grains silty sand rounded, granules of granite at 47cm contact
3				7.5 YR 7/2 pinkish gray	medium sand	well				Medium grains sand rounded, one grey lamination at 64 cm
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002286 **Field ID** PFL04

County Waushara

Lat 44.2088 **Long** -89.47771

Describer Ana Genthe **Date** 9/24/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PFL04


WUWN VQ810

Elevation 1105.84 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 22 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 0.9 feet sample recovered)		18-1052 X	7.5 YR 5/2 brown	medium sand	well				Medium grains rounded sand, possible recore @ 0-28cm
				7.5 YR 4/2 brown	fine sand	well		Some oxidation at end of core in coarser grained		Fine grained dusty sand rounded medium grains, at 28cm sand and gravel 10 YR 5/4 yellowish brown
7	Section 2 (5 - 10 feet, 0.9 feet sample recovered)									
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002286 **Field ID** PFL04

County Waushara

Lat 44.2088 **Long** -89.47771

Describer Ana Genthe **Date** 9/24/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PFL04

WUWN VQ810

Elevation 1105.84 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 22 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 1.3 feet sample recovered)		18-1055 X	7.5 YR 3/1 very dark gray	medium sand	well				Silty sand medium grains well rounded, maybe this is recore but doesn't match last core Sand medium grains rounded Silty sand medium to coarse well rounded Clayey sand medium grains well-rounded, granules Silty sand medium to coarse grains well rounded, grains oxidized clay lenses reduced
				7.5 YR 5/3 brown	medium sand	well				
				7.5 YR 4/2 brown	medium sand	well				
				7.5 YR 4/1 dark gray	medium sand	well				
				7.5 YR 6/3 light brown	medium sand					
12	Section 3 (10 - 15 feet, 1.3 feet sample recovered)									
13	Section 3 (10 - 15 feet, 1.3 feet sample recovered)									
14	Section 3 (10 - 15 feet, 1.3 feet sample recovered)									
15	Section 3 (10 - 15 feet, 1.3 feet sample recovered)									

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002286 **Field ID** PFL04

County Waushara

Lat 44.2088 **Long** -89.47771

Describer Ana Genthe **Date** 9/24/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PFL04


WUWN VQ810

Elevation 1105.84 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 22 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 22 feet, 4.1 feet sample recovered)		18-1058		n/a, Recore					Recore
				7.5 YR 5/3 brown	coarse sand	moderate				Silty sand coarse grains subrounded
17				7.5 YR 6/4 light brown	coarse sand	poor				Coarse to very coarse, silty sand, sub rounded, large granules throughout
18										
19										
20				7.5 YR 6/2 pinkish gray	medium sand	moderate				Sand medium to coarse rounded
21				7.5 YR 5/3 brown	sand & gravel	moderate				Medium to coarse rounded sand and gravel, large granules
22										End of borehole PFL04.

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002287 **Field ID** PFL05

County Waushara

Lat 44.20747 **Long** -89.46895

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands PFL05

WUWN VQ811

Elevation 1113.51 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 25 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.2 feet sample recovered)		18-335 X	10 YR 3/2 Very Dark Grayish Brown	medium sand	well				Med sand & organics, road grade
				7.5 YR 4/6 Strong Brown	sand & gravel	well				Fine-med sand & gravel
2				7.5 YR 4/6 Strong Brown	sand & gravel	moderate				Clayish fine-med sand & gravel
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002287 **Field ID** PFL05

County Waushara

Lat 44.20747 **Long** -89.46895

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands PFL05

WUWN VQ811

Elevation 1113.51 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 25 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 3.6 feet sample recovered)		18-337 ×	10 YR 4/4 Dark Yellowish Brown	sand & gravel	moderate				Med sand & gravel
				7.5 YR 8/3 Pink	medium sand	well	horizontal bedding (>1cm)	Oxidation		Possible recore
7				7.5 YR 8/3 Pink	sand & gravel	poor		Oxidation @ 73-77cm, 81-83cm		Med sand & gravel, outwash
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002287 **Field ID** PFL05

County Waushara

Lat 44.20747 **Long** -89.46895

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands PFL05

WUWN VQ811

Elevation 1113.51 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 25 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 4.3 feet sample recovered)		18-339 X		n/a, Recore					Recore
				7.5 YR 7/3 Pink	sand & gravel	poor	horizontal bedding (>1cm)			Med-coarse sand & gravel
12				7.5 YR 7/3 Pink	sand & gravel	poor				Med-coarse sand & gravel, large % gravel
				7.5 YR 7/3 Pink	sand & gravel	poor				Med-coarse sand & gravel
13				7.5 YR 7/3 Pink	sand & gravel	poor				Med-coarse sand & gravel, large % gravel
				7.5 YR 7/3 Pink	sand & gravel	poor				Med-coarse sand & gravel
14				7.5 YR 7/3 Pink	sand & gravel	poor				Med-coarse sand & gravel, large % gravel
				7.5 YR 7/3 Pink	sand & gravel	poor				Med-coarse sand & gravel
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002287 **Field ID** PFL05

County Waushara

Lat 44.20747 **Long** -89.46895

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PFL05

WUWN VQ811

Elevation 1113.51 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 25 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 4.8 feet sample recovered)		18-342 X		n/a, Recore					Recore
17				7.5 YR 8/3 Pink	sand & gravel	moderate	horizontal bedding (>1cm)			Med Sand & gravel beds, H. Laminations in Sand beds, sand
18				7.5 YR 8/3 Pink	sand & gravel	moderate				Large % Gravel
				7.5 YR 8/3 Pink	sand & gravel	moderate				Sand
19				7.5 YR 8/3 Pink	sand & gravel	moderate				Large % Gravel
				7.5 YR 8/3 Pink	sand & gravel	moderate				Sand
				7.5 YR 8/3 Pink	sand & gravel	moderate				Large % Gravel
20				7.5 YR 8/3 Pink	sand & gravel	moderate				Sand

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002287 **Field ID** PFL05

County Waushara

Lat 44.20747 **Long** -89.46895

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands PFL05

WUWN VQ811

Elevation 1113.51 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 25 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 3.3 feet sample recovered)		18-344 ×	7.5 YR 6/3 Light Brown	medium sand	well	horizontal lamination (<1cm)			Med-coarse sand, faint H. laminations, outwash?
22										
23				7.5 YR 6/4 Light Brown	medium sand	well	horizontal lamination (<1cm)			Fine-med sand, faint H. laminations
24										End of borehole PFL05
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002288 **Field ID** PFL07

County Waushara

Lat 44.20548 **Long** -89.46732

Describer S. Dodge **Date** 9/4/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PFL07


WUWN VQ812

Elevation 1103.51 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 15 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.5 feet sample recovered)		18-699 X	10 YR 4/1 Dark Grey	medium sand	well				Fine-medium sand, road grade
2				10 YR 6/4 Light Yellowish Brown	medium sand	well				Medium-coarse sand, granules throughout, silty @ 54-62 cm
3				10 YR 7/3 Very Pale Brown	medium sand	well				
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002288 **Field ID** PFL07

County Waushara

Lat 44.20548 **Long** -89.46732

Describer S. Dodge **Date** 9/4/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PFL07

WUWN VQ812

Elevation 1103.51 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 15 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
	Section 2 (5 - 10 feet, 3.3 feet sample recovered)				n/a, Recore					Recore
6			18-700 X	10 YR 6/3 Pale Brown	medium sand	well	horizontal bedding (>1cm)			Gravel beds, gravel @ 44-49cm, 61-68cm
7										
8			18-702 X	10 YR 6/3 Pale Brown	sand & gravel	poor				Slightly silty
9			18-703 X							
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002288 **Field ID** PFL07

County Waushara

Lat 44.20548 **Long** -89.46732

Describer S. Dodge **Date** 9/4/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands PFL07

WUWN VQ812

Elevation 1103.51 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 15 ft

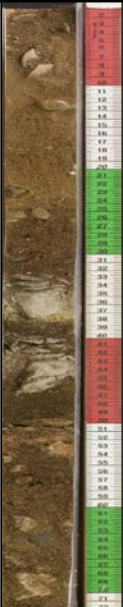
Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 2.8 feet sample recovered)				n/a, Recore					Recore
				10 YR 5/3 Brown	medium sand	moderate				Possible Recore
12				10 YR 5/3 Brown	sand & gravel	poor				Medium-coarse sand and gravel, no gravel @ 76-80cm
13			18-706 X 18-707 X							End of borehole PFL07
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002289 **Field ID** PFL09 **Site Name** WGNHS Central Sands PFL09
County Waushara **WUWN** VQ813
Lat 44.2049 **Long** -89.47159 **Elevation** 1134.07 ft **Method** RTK
Describer Ana Genthe **Date** 10/9/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 45 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.4 feet sample recovered)		18-1380 X	7.5 YR 4/6 Strong Brown	medium sand	moderate				Road grade, subrounded grains
2				7.5 YR 4/4 Brown	sand & gravel	well			moderate on clasts	Medium grained sand + gravel, rounded, large gravel ~30% (up to 3cm), gradient in color changes to 7.5 YR 3/4 dark brown by 46cm
3				10 YR 5/4 Yellowish Brown	sand & gravel	well				Medium grained sand + gravel, well rounded, gravel ~25% variation in size (0.5-3cm)
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002289 **Field ID** PFL09

County Waushara

Lat 44.2049 **Long** -89.47159

Describer Ana Genthe **Date** 10/9/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PFL09


WUWN VQ813

Elevation 1134.07 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 45 ft

For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 2.2 feet sample recovered)		18-1384 X	10 YR 5/4 Yellowish Brown	sand & gravel	well				Medium to fine grained sand + gravel, well rounded, not recore, matches the bottom of last core, gravel ~25% (0.5-3cm)
				10 YR 5/4 Yellowish Brown	medium sand	well	horizontal			Rounded grains, clay horizontal lenses 10 YR 3/2 very dark grayish brown
				10 YR 3/3 Dark Brown	medium sand	well				Medium grained silty sand, well rounded
7				7.5 YR 4/6 Strong Brown	medium sand	well				Rounded, same bedding throughout the core
				7.5 YR 5/6 Strong Brown	medium sand	well				@46cm-68cm, gradient with first color listed under munsell color the other being 7.5 YR 7/4 Pink
				7.5 YR 7/4 Pink	medium sand	well				
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002289 **Field ID** PFL09 **Site Name** WGNHS Central Sands PFL09
County Waushara **WUWN** VQ813
Lat 44.2049 **Long** -89.47159 **Elevation** 1134.07 ft **Method** RTK
Describer Ana Genthe **Date** 10/9/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 45 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 4.1 feet sample recovered)		18-1386 X	7.5 YR 4/4 Brown	sand & gravel	moderate				Medium grained sand + gravel, rounded, recore gravel ~10% 0.5-3cm
12				10 YR 6/4 Light Yellowish Brown	medium sand	well	horizontal bedding (>1cm)			Rounded, horizontal bedding with laminations, lamination colored: 10 YR 4/4 Dark Yellowish Brown
13										
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002289 **Field ID** PFL09

Site Name WGNHS Central Sands PFL09

County Waushara

WUWN VQ813

Lat 44.2049 **Long** -89.47159

Elevation 1134.07 ft **Method** RTK

Describer Ana Genthe **Date** 10/9/18


Project Central Sands Lakes Study

Drill Method direct push

Total Depth 45 ft

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 3.6 feet sample recovered)		18-1390 X	10 YR 3/4 Dark Yellowish Brown	sand & gravel	well				Recore 5% gravel, medium grained silty sand + gravel, rounded sand and subrounded gravel
				7.5 YR 6/4 Light Brown	medium sand	well	angular lamination (<1cm)			Rounded grains, angular and horizontal laminations
				7.5 YR 4/4 Brown	medium sand	moderate				Medium grained silty sand, rounded
17				10 YR 7/3 Very Pale Brown	sand & gravel	poor			yes	Medium grained silty sand + gravel angular, broken bolder?
				7.5 YR 4/6 Strong Brown	sand & gravel	moderate				Medium grained rounded sand and subrounded gravel, ~5% gravel, same bedding throughout the core
18				7.5 YR 6/4 Light Brown	sand & gravel	moderate				@64cm-109cm
19										
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002289 **Field ID** PFL09 **Site Name** WGNHS Central Sands PFL09
County Waushara **WUWN** VQ813
Lat 44.2049 **Long** -89.47159 **Elevation** 1134.07 ft **Method** RTK
Describer Ana Genthe **Date** 10/9/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 45 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 4.8 feet sample recovered)			10 YR 4/3 Brown	medium sand	moderate				Recore, rounded grains
22				10 YR 7/3 Very Pale Brown 7.5 YR4/6 Strong Brown	sand & gravel sand & gravel	poor moderate	bedding (>1cm)		yes	Recore, medium grained silty sand + gravel angular Medium grained rounded sand and subangular gravel, clay beds @ 108-111cm and 113-118cm, ~5% gravel
23										
24										
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002289 **Field ID** PFL09

County Waushara

Lat 44.2049 **Long** -89.47159

Describer Ana Genthe **Date** 10/9/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands PFL09

WUWN VQ813

Elevation 1134.07 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 45 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
26	Section 6 (25 - 30 feet, 4.3 feet sample recovered)			7.5 YR 4/6 Strong Brown	medium sand	well				Recore, well rounded grains
				7.5 YR 6/6 Reddish Yellow	medium sand	well				Recore, well rounded grains
				7.5 YR 4/4 Brown	medium sand	poor				Recore, rounded grains
				7.5 YR 6/4 Light Brown	medium sand	poor				~25% gravel, recore, medium grained silty sand rounded
27				7.5 YR 4/3 Brown	sand & gravel	moderate	horizontal bedding (>1cm)			Medium grained silty sand + gravel rounded, subtle horizontal bedding, ~25% gravel
28				7.5 YR 6/3 Light Brown	sand & gravel	poor		116 cm has both oxidation and reduction		~50% gravel, medium to coarse grained sand + gravel subrounded
29										
30										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002289 **Field ID** PFL09

County Waushara

Lat 44.2049 **Long** -89.47159

Describer Ana Genthe **Date** 10/9/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands PFL09

WUWN VQ813

Elevation 1134.07 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 45 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
31	Section 7 (30 - 35 feet, 4.8 feet sample recovered)		18-1398 ×	10 YR 4/3 Brown	medium sand	moderate	horizontal bedding (>1cm)			Medium to fine grained silty sand with subrounded gravel, subtle horizontal bedding, recore ~5% gravel
32										
33										
34										
35			18-1402 ×	10 YR 7/3 Very Pale Brown	coarse sand	poor				Medium to coarse grained sand and gravel rounded, ~50% gravel that doesn't start until 80 cm

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002289 **Field ID** PFL09

County Waushara

Lat 44.2049 **Long** -89.47159

Describer Ana Genthe **Date** 10/9/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands PFL09

WUWN VQ813

Elevation 1134.07 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 45 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
36	Section 8 (35 - 40 feet, 4.1 feet sample recovered)		18-1404 X	7.5 YR 4/6 Strong Brown	medium sand	moderate				Medium to fine sand + gravel rounded, 5% gravel, recore?
37				10 YR 4/6 Dark Yellowish Brown	medium sand	well	horizontal lamination (<1cm)			Medium to fine sand rounded, slightly distorted, lamination appear distorted recore?
38				7.5 YR 4/3 Brown	sand & gravel	moderate				Medium grained silty sand + gravel, ~25% gravel
39										
40										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002289 **Field ID** PFL09

County Waushara

Lat 44.2049 **Long** -89.47159

Describer Ana Genthe **Date** 10/9/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands PFL09

WUWN VQ813

Elevation 1134.07 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 45 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
41	Section 9 (40 - 45 feet, 4.5 feet sample recovered)			7.5 YR 4/4 Brown	medium sand	well	angular bedding (>1cm)			18-49cm could be angular bedding, ~2% small gravel (~0.5cm)
42										
43				10 YR 6/3 Pale Brown	sand & gravel	poor				Med. to coarse grained rounded sand and subrounded gravel, medium to large gravel (1-6cm) ~25%
44				10 YR 6/4 Light Yellowish Brown	sand & gravel	moderate				~10% gravel, medium grained rounded sand + gravel
45			18-1408 X							End of borehole PFL09

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002290 **Field ID** PFL11

Site Name WGNHS Central Sands PFL11

County Waushara

WUWN VQ814

Lat 44.20541 **Long** -89.4746

Elevation 1148.29 ft **Method** RTK_Offset

Describer Ana Genthe **Date** 10/2/18


Project Central Sands Lakes Study

Drill Method direct push

Total Depth 60 ft

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 3.3 feet sample recovered)			7.5 YR 3/2 Dark Brown	medium sand	well				Med. sand with soil, well rounded, roots, road grade
				7.5 YR 4/6 Strong Brown	sand & gravel	well				Med. sand + gravel, well rounded, granules ~10%
2				5 YR 4/6 Yellowish Red	sand & gravel	well				Med. to fine sand + gravel, rounded, granules ~10%
3				7.5 YR 6/4 Light Brown	sand & gravel	well				Med. to fine sand + gravel, rounded, granules ~15%
4										
5										

18-1074
X

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002290 **Field ID** PFL11

County Waushara

Lat 44.20541 **Long** -89.4746

Describer Ana Genthe **Date** 10/2/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands PFL11

WUWN VQ814

Elevation 1148.29 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 60 ft


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
	Section 2 (5 - 10 feet, 3.8 feet sample recovered)				n/a, Recore					Recore
6			18-1075 ×	7.5 YR 7/3 Pink	medium sand	moderate				Fine to medium sand grained sand + gravel, rounded, ~25% large clasts
7				7.5 YR 6/6 Reddish Yellow	sand & gravel	poor				Medium grained sand + gravel, rounded, ~50% clast
8				7.5 YR 7/3 Pink	medium sand	moderate				Fine to medium grained sand + gravel, rounded, 88-98 heavy gravel
9			18-1077 ×							
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002290 **Field ID** PFL11 **Site Name** WGNHS Central Sands PFL11
County Waushara **WUWN** VQ814
Lat 44.20541 **Long** -89.4746 **Elevation** 1148.29 ft **Method** RTK_Offset
Describer Ana Genthe **Date** 10/2/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 60 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 4.5 feet sample recovered)				n/a, Recore					Recore
12				7.5 YR 6/4 Light Brown	medium sand	well	horizontal lamination (<1cm)	Slight Oxidized Laminations		Medium to coarse grained sand, rounded, horizontal lamination w/ 7.5 YR 7/4 pink, 7.5 YR 5/4 brown silty sand bed @101-102cm
13										
14				7.5 YR 7/4 Pink	medium sand	well	horizontal bedding (>1cm)			Rounded, 132-137cm gravel (broken clasts)
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002290 **Field ID** PFL11

County Waushara

Lat 44.20541 **Long** -89.4746

Describer Ana Genthe **Date** 10/2/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands PFL11

WUWN VQ814

Elevation 1148.29 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 60 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
	Section 4 (15 - 20 feet, 3 feet sample recovered)				n/a, Recore, distorted structure					Recore, distorted structure
16				7.5 YR 6/4 Light Brown	medium sand	well	horizontal bedding (>1cm)			Medium to coarse grained sand, rounded, clasts @21-25cm
				7.5 YR 5/4 Brown	medium sand	poor	horizontal bedding (>1cm)			Fine to medium grained, silty sand, gravel, rounded, clasts @37-46cm
17				7.5 YR 6/4 Light Brown	coarse sand	moderate	horizontal bedding (>1cm)	Oxidation @60-66cm		Horizontal bedding from 55-92cm, clasts @87cm
				7.5 YR 6/3 Light Brown	fine sand	moderate				Fine to medium grained sand, rounded
18			18-1086 X	7.5 YR 7/3 Pink	coarse sand	moderate				Coarse grained sand, rounded
19										
20										

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SEDIMENT DESCRIPTION

WGNHS ID 70002290 **Field ID** PFL11

County Waushara

Lat 44.20541 **Long** -89.4746

Describer Ana Genthe **Date** 10/2/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PFL11


WUWN VQ814

Elevation 1148.29 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 60 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 3 feet sample recovered)		18-1089 X 18-1090 X		n/a, Recore					Recore
				7.5 YR 4/3 Brown	sand & gravel	well	horizontal bedding (>1cm)			Medium grained silty sand and gravels, sub-rounded, possible recore, gravel @36-42cm
22				7.5 YR 6/3 Light Brown	sand & gravel	poor	horizontal bedding (>1cm)			Medium to coarse grained sand and gravel, rounded, ~90% gravel
23				7.5 YR 7/3 Pink	medium sand	well	horizontal lamination (<1cm)			Medium to coarse grained sand and gravel, well rounded, ~10% gravel
24										
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002290 **Field ID** PFL11

County Waushara

Lat 44.20541 **Long** -89.4746

Describer Ana Genthe **Date** 10/2/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PFL11


WUWN VQ814

Elevation 1148.29 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 60 ft

For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
26	Section 6 (25 - 30 feet, 3.8 feet sample recovered)		18-1093		n/a, Recore					Recore
27				7.5 YR 8/3 Pink	medium sand	well	horizontal lamination (<1cm)			Rounded grains
28				7.5 YR 7/4 Pink	sand & gravel	moderate				Medium grained sand + gravel, rounded, 79-98cm dense gravel ~50%, medium to large clasts, 98-115cm ~20% gravel
29										
30										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002290 **Field ID** PFL11 **Site Name** WGNHS Central Sands PFL11
County Waushara **WUWN** VQ814
Lat 44.20541 **Long** -89.4746 **Elevation** 1148.29 ft **Method** RTK_Offset
Describer Ana Genthe **Date** 10/2/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 60 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
31	Section 7 (30 - 35 feet, 4.8 feet sample recovered)				n/a, Recore					Recore
32				10 YR 7/2 Light Gray	medium sand		horizontal lamination (<1cm)			Rounded grains, horizontal laminations within colored beds, 87-90cm silty sand and gravel bed
33										
34				10 YR 7/2 Light Gray	medium sand	poor	horizontal lamination (<1cm)			Rounded grains, horizontal laminations within colored beds, ~15% clasts varying in size
35			18-1095 X							

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002290 **Field ID** PFL11 **Site Name** WGNHS Central Sands PFL11
County Waushara **WUWN** VQ814
Lat 44.20541 **Long** -89.4746 **Elevation** 1148.29 ft **Method** RTK_Offset
Describer Ana Genthe **Date** 10/2/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 60 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
36	Section 8 (35 - 40 feet, 4.2 feet sample recovered)			10 YR, 7/3 Very Pale Brown	sand & gravel	moderate	horizontal lamination (<1cm)			Medium grained sand + gravel, rounded, horizontal laminations within horizontal bedding, ~10% gravel
37										
38				7.5 YR, 5/3 Brown	medium sand	poor				Medium to coarse grained sand + gravel, rounded, possible recore, ~30% gravel
39										
40										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002290 **Field ID** PFL11

County Waushara

Lat 44.20541 **Long** -89.4746

Describer Ana Genthe **Date** 10/2/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands PFL11

WUWN VQ814

Elevation 1148.29 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 60 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
41	Section 9 (40 - 45 feet, 4.4 feet sample recovered)			10 YR 7/3 Very Pale Brown	sand & gravel	moderate	horizontal lamination (<1cm)			Medium grained sand + gravel, sub-rounded, horizontal laminations within horizontal beds, ~5% gravel of varied sized @0.5cm - 4 cm
42										
43										
44										
45										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002290 **Field ID** PFL11

County Waushara

Lat 44.20541 **Long** -89.4746

Describer Ana Genthe **Date** 10/2/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands PFL11

WUWN VQ814

Elevation 1148.29 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 60 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
46	Section 10 (45 - 50 feet, 4.4 feet sample recovered)				n/a, Recore					Recore
47										
48				7.5 YR 6/4 7/3 Pink	sand & gravel	moderate				Coarse grained sand + gravel, rounded
49			18-1104 X	10 YR 6/4 Light Yellowish Brown	coarse sand	poor				Coarse to medium grained sand + gravel, rounded
50			18-1105 X	7.5 YR 7/3 Very Pale Brown	medium sand	well				Well rounded
				7.5 YR 7/3 Very Pale Brown	medium sand	poor				

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002290 **Field ID** PFL11

County Waushara

Lat 44.20541 **Long** -89.4746

Describer Ana Genthe **Date** 10/2/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PFL11


WUWN VQ814

Elevation 1148.29 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 60 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
51	Section 11 (50 - 55 feet, 2.1 feet sample recovered)		18-1109 X	7.5 YR 6/4 Light Brown	sand & gravel	poor				Medium grained sand + gravel, sub-rounded
				10 YR 6/4 Light Yellowish Brown	medium sand	well				Rounded
				10 YR 6/3 Pale Brown	sand & gravel	poor				Medium grained sand + gravel, rounded
				10 YR 6/4 Light Yellowish Brown	medium sand	well				Rounded
52				10 YR 6/3 Pale Brown	sand & gravel	poor				Medium to coarse grained sand + gravel
53										
54										
55										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002290 **Field ID** PFL11

County Waushara

Lat 44.20541 **Long** -89.4746

Describer Ana Genthe **Date** 10/2/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PFL11

WUWN VQ814

Elevation 1148.29 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 60 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
56	Section 12 (55 - 60 feet, 4.8 feet sample recovered)				n/a, Recore					Recore
57				10 YR 6/3 Pale Brown	sand & gravel	moderate	horizontal bedding (>1cm)			~10% gravel, medium grained sand + gravel, rounded
58										
59										
60			18-1112 X 18-1113 X	10 YR 6/3 Pale Brown	sand & gravel	poor				medium grained sand + gravel, rounded
										End of borehole PFL 11

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002291 **Field ID** PFL13

County Waushara

Lat 44.20763 **Long** -89.47721

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PFL13

WUWN VQ815

Elevation 1104.74 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 20 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 1.7 feet sample recovered)		18-325 X 18-326 X	10 YR 3/3 Dark Brown	medium sand	well				Road grade
				10 YR 5/4 Yellowish Brown	sand & gravel	moderate				Med sand & gravel
				7.5 YR 7/3 Pink	coarse sand	moderate				Silty crushed rock (coarse sand)
2										
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002291 **Field ID** PFL13

County Waushara

Lat 44.20763 **Long** -89.47721

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands PFL13

WUWN VQ815

Elevation 1104.74 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 20 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
	Section 2 (5 - 10 feet, 3.8 feet sample recovered)				n/a, Recore					Recore
6				7.5 YR 6/4 light Brown	fine sand	well				Fine-med sand
					n/a, Crushed rock			Oxidized		Crushed rock
7				7.5 YR 5/3 Brown	sand & gravel	well				Med sand w/ gravel, small % gravel, broken down sand stone clasts held in place
8				7.5 YR 5/3 Brown	sand & gravel	poor			weak	Med sand & gravel, large % gravel
9				7.5 YR 8/2 Pink	fine sand	well				Fine-med sand, crushed sandstone clasts
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002291 **Field ID** PFL13

County Waushara

Lat 44.20763 **Long** -89.47721

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PFL13


WUWN VQ815

Elevation 1104.74 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 20 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
	Section 3 (10 - 15 feet, 3 feet sample recovered)				n/a, Recore					Recore
11				10 YR 5/4 Yellowish Brown	sand & gravel	poor				Silty med sand & gravel, possible recore to 41cm, wet core
12										
13										
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002291 **Field ID** PFL13

County Waushara

Lat 44.20763 **Long** -89.47721

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PFL13


WUWN VQ815

Elevation 1104.74 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 20 ft

For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 3.3 feet sample recovered)			10 YR 5/3 Brown	sand & gravel	moderate				Silty med-coarse sand with gravel, small % gravel
17				10 YR 4/2 Dark Grayish Brown	sand & gravel	poor				Silty med-coarse sand with gravel, large % gravel
18				2.5 Y 4/1 Dark Gray	sand & gravel	moderate				Silty med-coarse sand with gravel, small % gravel
19			18-334 X							End of borehole PFL13.
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002292 **Field ID** PFL14 **Site Name** WGNHS Central Sands PFL14
County Waushara **WUWN** VQ816
Lat 44.20645 **Long** -89.47664 **Elevation** 1148.91 ft **Method** RTK
Describer Ana Genthe **Date** 10/22/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 60 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 1.6 feet sample recovered)		18-1249 X	7.5 YR 3/4 dark brown	medium sand	moderate				Fine to medium grained silty sand, road grade soil w/ roots
				7.5 YR 5/4 brown	sand & gravel	well				Medium grained sand and gravel, some small gravel ~2% , trace clay?
2										
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002292 **Field ID** PFL14 **Site Name** WGNHS Central Sands PFL14
County Waushara **WUWN** VQ816
Lat 44.20645 **Long** -89.47664 **Elevation** 1148.91 ft **Method** RTK
Describer Ana Genthe **Date** 10/22/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 60 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 2.2 feet sample recovered)		18-1250 ×	7.5 YR 4/6 Strong brown	medium sand	moderate				Fine to medium grained rounded sand and gravel, @24 cm there is a stopper, ~5% gravel, trace clay?
12										
13										
14										
15			18-1251 ×							

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002292 **Field ID** PFL14 **Site Name** WGNHS Central Sands PFL14
County Waushara **WUWN** VQ816
Lat 44.20645 **Long** -89.47664 **Elevation** 1148.91 ft **Method** RTK
Describer Ana Genthe **Date** 10/22/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 60 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 2.6 feet sample recovered)			7.5 YR 4/6 strong brown	medium sand	moderate				Medium grained rounded sand and gravel, @6 cm there is a stopper, ~5% gravel
17										
18										
19										
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002292 **Field ID** PFL14 **Site Name** WGNHS Central Sands PFL14
County Waushara **WUWN** VQ816
Lat 44.20645 **Long** -89.47664 **Elevation** 1148.91 ft **Method** RTK
Describer Ana Genthe **Date** 10/22/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 60 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 2.6 feet sample recovered)		18-1257 X	7.5 YR 4/6 strong brown	sand & gravel	well				Medium grained sand subrounded and gravel, ~5% gravel, silty layered contact at 9-11 cm, trace clay? Medium grained sand rounded, trace clay, @34 cm & 36 cm fine grained horizontal beds
				7.5 YR 7/4 pink	medium sand	well	horizontal lamination (<1cm)			
22				10 YR 7/4 very pale brown	medium sand	moderate				
23										
24										
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002292 **Field ID** PFL14 **Site Name** WGNHS Central Sands PFL14
County Waushara **WUWN** VQ816
Lat 44.20645 **Long** -89.47664 **Elevation** 1148.91 ft **Method** RTK
Describer Ana Genthe **Date** 10/22/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 60 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
26	Section 6 (25 - 30 feet, 1.9 feet sample recovered)		18-1260 X	7.5 YR 7/3 pink	sand & gravel	poor	horizontal bedding (>1cm)	Oxidation at 48 cm		Horizontal bedding of varying grain size, ~10% gravel
27										
28										
29										
30										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002292 **Field ID** PFL14 **Site Name** WGNHS Central Sands PFL14
County Waushara **WUWN** VQ816
Lat 44.20645 **Long** -89.47664 **Elevation** 1148.91 ft **Method** RTK
Describer Ana Genthe **Date** 10/22/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 60 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
31	Section 7 (30 - 35 feet, 0.9 feet sample recovered)		18-1261 X	10 YR 5/4 yellowish brown	sand & gravel	moderate				Medium grained subrounded sand and gravel, ~25% gravel
32										
33										
34										
35										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002292 **Field ID** PFL14 **Site Name** WGNHS Central Sands PFL14
County Waushara **WUWN** VQ816
Lat 44.20645 **Long** -89.47664 **Elevation** 1148.91 ft **Method** RTK
Describer Ana Genthe **Date** 10/22/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 60 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
			18-1263 X	7.5 YR 5/4 brown	medium sand	well				
				7.5 YR 5/4 brown	sand & gravel	poor				Coarse grained sand and gravel, ~10% gravel
36	Section 8 (35 - 40 feet, 0.5 feet sample recovered)									
37										
38										
39										
40										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002292 **Field ID** PFL14 **Site Name** WGNHS Central Sands PFL14
County Waushara **WUWN** VQ816
Lat 44.20645 **Long** -89.47664 **Elevation** 1148.91 ft **Method** RTK
Describer Ana Genthe **Date** 10/22/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 60 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
41	Section 9 (40 - 45 feet, 1 foot sample recovered)		18-1265 X	7.5 YR 6/4 light brown	medium sand	well				Medium grained sand, rounded, clast @ 10-16 cm
				7.5 YR 7/3 pink	medium sand	moderate				Medium grained sand, rounded, clast @ 21-25 cm
42										
43										
44										
45										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002292 **Field ID** PFL14 **Site Name** WGNHS Central Sands PFL14
County Waushara **WUWN** VQ816
Lat 44.20645 **Long** -89.47664 **Elevation** 1148.91 ft **Method** RTK
Describer Ana Genthe **Date** 10/22/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 60 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
46	Section 10 (45 - 50 feet, 1.4 feet sample recovered)		18-1267 X	7.5 YR 5/4 brown	medium sand	moderate				Recore?
				10 YR 7/4 very pale brown	sand & gravel	moderate				Medium grained sand and gravel, well rounded, ~5% gravel
				10 YR 7/3 very pale brown	medium sand	well				Rounded
47	Section 10 (45 - 50 feet, 1.4 feet sample recovered)									
48										
49										
50										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002292 **Field ID** PFL14 **Site Name** WGNHS Central Sands PFL14
County Waushara **WUWN** VQ816
Lat 44.20645 **Long** -89.47664 **Elevation** 1148.91 ft **Method** RTK
Describer Ana Genthe **Date** 10/22/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 60 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
51	Section 11 (50 - 55 feet, 1.2 feet sample recovered)		18-1269 X	7.5 YR 5/4 brown	medium sand	well				
				7.5 YR 5/4 yellowish brown	sand & gravel	moderate				Coarse grained sand and gravel, well rounded, ~5% gravel
52										
53										
54										
55										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002292 **Field ID** PFL14 **Site Name** WGNHS Central Sands PFL14
County Waushara **WUWN** VQ816
Lat 44.20645 **Long** -89.47664 **Elevation** 1148.91 ft **Method** RTK
Describer Ana Genthe **Date** 10/22/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 60 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
56	Section 12 (55 - 60 feet, 1.1 feet sample recovered)		18-1270 X	10 YR 6/3 pale brown	sand & gravel	moderate				Medium grained well rounded sand and gravel, ~10% gravel
57										End of borehole PFL14.
58										
59										
60										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002318 **Field ID** PFL15 **Site Name** WGNHS Central Sands PFL15
County Waushara **WUWN** VQ840
Lat 44.20902 **Long** -89.47022 **Elevation** 1118.58 ft **Method** RTK
Describer Ana Genthe **Date** 12/21/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 28 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2 feet sample recovered)		19-268 X	7.5YR 4/2 Brown	coarse sand	poor				
				7.5YR 2.5/2 Very Dark Brown	medium sand	poor				
				7.5YR 4/3 Brown	medium sand	moderate				
				7.5YR 2.5/2 Very Dark Brown	medium sand	moderate				
				7.5YR 3/3 Dark Brown	medium sand	moderate				
2				7.5YR 4/6 Strong Brown						
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002318 **Field ID** PFL15 **Site Name** WGNHS Central Sands PFL15
County Waushara **WUWN** VQ840
Lat 44.20902 **Long** -89.47022 **Elevation** 1118.58 ft **Method** RTK
Describer Ana Genthe **Date** 12/21/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 28 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 1.8 feet sample recovered)		19-271 X	7.5YR 6/6 Reddish Yellow	medium sand	well	horizontal bedding (>1cm)			cobbly bed 37-42cm
7										
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002318 **Field ID** PFL15 **Site Name** WGNHS Central Sands PFL15
County Waushara **WUWN** VQ840
Lat 44.20902 **Long** -89.47022 **Elevation** 1118.58 ft **Method** RTK
Describer Ana Genthe **Date** 12/21/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 28 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 1.5 feet sample recovered)		19-273 X	7.5YR 7/4 Pink	medium sand	well	horizontal lamination (<1cm)			faint laminations, cobbles 18-19cm
12										
13										
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002318 **Field ID** PFL15 **Site Name** WGNHS Central Sands PFL15
County Waushara **WUWN** VQ840
Lat 44.20902 **Long** -89.47022 **Elevation** 1118.58 ft **Method** RTK
Describer Ana Genthe **Date** 12/21/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 28 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 0.9 feet sample recovered)		19-276 X	7.5YR 5/6 Strong Brown	medium sand	moderate	horizontal bedding (>1cm)			recore?
				7.5YR 4/4 Brown	medium sand	poor				Cobbles, recore?
				7.5YR 6/4 Light Brown	medium sand	moderate				Varying colors of beds
17	Section 4 (15 - 20 feet, 0.9 feet sample recovered)									
18	Section 4 (15 - 20 feet, 0.9 feet sample recovered)									
19	Section 4 (15 - 20 feet, 0.9 feet sample recovered)									
20	Section 4 (15 - 20 feet, 0.9 feet sample recovered)									

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002318 **Field ID** PFL15 **Site Name** WGNHS Central Sands PFL15
County Waushara **WUWN** VQ840
Lat 44.20902 **Long** -89.47022 **Elevation** 1118.58 ft **Method** RTK
Describer Ana Genthe **Date** 12/21/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 28 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 28 feet, 1.7 feet sample recovered)		19-280 X	7.5YR 4/4 Brown	medium sand	moderate poor		yes		recore? Almost entirely cobbles
				7.5YR 4/3 Brown	medium sand					
				5YR 4/4 Reddish Brown	fine sand	poor				Almost entirely cobbles
22				10YR 5/4 Yellowish Brown	medium sand	poor	horizontal bedding (>1cm)			Horizontal beds alternating cobbles and no cobbles. Grain size increases with depth
										End of borehole PFL15.
23										
24										
25										
26										
27										
28										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002304 **Field ID** PSNT01

County Waushara

Lat 43.98449 **Long** -89.55848

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT01

WUWN VQ827

Elevation 997.3 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 25 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.1 feet sample recovered)		18-415 X 18-416 X	7.5 YR 4/6 Strong Brown	medium sand	well				Road Grade
				7.5 YR 6/4 Light Brown	medium sand	well				
				5 YR 5/6 Yellowish Red	medium sand	well				
2				7.5 YR 7/6 Reddish Yellow	medium sand	well				Fine-med sand, dark crushed rock @ base Fine-Med Sand
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002304 **Field ID** PSNT01

County Waushara

Lat 43.98449 **Long** -89.55848

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands PSNT01

WUWN VQ827

Elevation 997.3 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 25 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 2.7 feet sample recovered)		18-417 X	7.5 YR 5/6 Strong Brown	medium sand	poor				Med-coarse sand & gravel, possible recore @ 0-14cm
7				7.5 YR 8/3 Pink	medium sand	poor				Fine-med sand & gravel, crushed rock, sand & organics @ 67-72cm, roots @ 49-67cm
8			18-418 X							
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002304 **Field ID** PSNT01

County Waushara

Lat 43.98449 **Long** -89.55848

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT01


WUWN VQ827

Elevation 997.3 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 25 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
	Section 3 (10 - 15 feet, 3 feet sample recovered)				n/a, Recore					Recore
11				7.5 YR 7/6 Reddish Yellow	medium sand	moderate	horizontal lamination (<1cm)	Oxidation		Gravel bedding, Gravel beds @ 31 cm, 33-34cm, 40-43cm, 50-53cm, 59-62cm, organics @ 73-77cm
12			18-419 X 18-420 X 18-421 X							
13			18-422 X	7.5 YR 6/6 Reddish Yellow	medium sand	well				Med-coarse Sand, Clasts @ base
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002304 **Field ID** PSNT01

County Waushara

Lat 43.98449 **Long** -89.55848

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands PSNT01

WUWN VQ827

Elevation 997.3 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 25 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 2.6 feet sample recovered)			10 YR 5/4 Yellowish Brown	medium sand	well	horizontal bedding (>1cm)			Med-coarse sand, coarser grained beds @ 39-43cm, 48-53cm, clasts @ top of core, wet core, small clasts throughout 64cm, 70cm, 73cm
17										
18										
19										
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002304 **Field ID** PSNT01

County Waushara

Lat 43.98449 **Long** -89.55848

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT01


WUWN VQ827

Elevation 997.3 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 25 ft

For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 3.5 feet sample recovered)		18-424	10 YR 4/4 Dark Yellowish Brown	sand & gravel	moderate				Med sand & gravel, possible recore
			18-424	10 YR 5/4 Yellowish Brown	coarse sand	poor				Med-coarse sand & gravel, large clast @ 53-57cm
22			18-425	7.5 YR 5/4 Brown	coarse sand	poor		Oxidation @ 66-69cm		Med-coarse sand & gravel, large % gravel
23			18-427	10 YR 5/2 Grayish Brown	clay	well		Reduction		Sandy clay, color change @ 88-92, 92-96, 96-97cm
			18-428	7.5 YR 6/4 Light Brown	medium sand	well				
24										End of borehole PSNT01.
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002305 **Field ID** PSNT03 **Site Name** WGNHS Central Sands PSNT03
County Waushara **WUWN** VQ828
Lat 43.9823 **Long** -89.54688 **Elevation** 993.84 ft **Method** RTK
Describer Ana Genthe **Date** 11/1/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 25 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 3 feet sample recovered)		18-1172 X	7.5YR 4/6 Strong Brown	medium sand	moderate				Change in color but consistent texture(1/3)
2				7.5YR 5/8 Strong Brown	medium sand	moderate				Change in color but consistent texture(2/3)
3				7.5YR 6/6 Reddish Yellow	medium sand	moderate	lamination (<1cm)			Change in color but consistent texture(3/3) and distorted angular laminations at 85cm
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002305 **Field ID** PSNT03

County Waushara

Lat 43.9823 **Long** -89.54688

Describer Ana Genthe **Date** 11/1/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT03


WUWN VQ828

Elevation 993.84 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 25 ft

For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 3.3 feet sample recovered)			10YR 5/4 Yellowish Brown	medium sand	moderate	horizontal bedding (>1cm)			Recore with varying colors and distorted beds (disrupted?)
				7.5YR 5/6 Strong Brown	fine sand	well	lamination (<1cm)			distorted and sparse laminations, trace gravel
				7.5YR 4/6 Strong Brown	fine sand	well		black dots of manganese oxidation?		
7				7.5YR 6/4 Light Brown	fine sand	well	horizontal lamination (<1cm)			horizontal and angular laminations of silty fine grained well sorted sand 7.5YR 5/6 Strong Brown. After each lamination there is a gradient from 7.5YR 5/6 to 6/4
8			18-1176 X							
9										
10										

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SEDIMENT DESCRIPTION

WGNHS ID 70002305 **Field ID** PSNT03 **Site Name** WGNHS Central Sands PSNT03
County Waushara **WUWN** VQ828
Lat 43.9823 **Long** -89.54688 **Elevation** 993.84 ft **Method** RTK
Describer Ana Genthe **Date** 11/1/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 25 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 3.3 feet sample recovered)			7.5YR 4/6-4/3 Strong Brown to Brown	medium sand	moderate	horizontal lamination (<1cm)			Variety of colors, recore?
12				7.5YR 7/3 Pink	fine sand	well	horizontal bedding (>1cm)			becomes gradually medium grained until 91cm before becoming fine again (beds are 49-62cm)
13										
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002305 **Field ID** PSNT03

County Waushara

Lat 43.9823 **Long** -89.54688

Describer Ana Genthe **Date** 11/1/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT03


WUWN VQ828

Elevation 993.84 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 25 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 2.1 feet sample recovered)		18-1182 X	7.5YR 5/4 Brown	medium sand	well		black spots from magnesium oxidation?		After 40cm spots of oxidation become smaller and more sparse, ending around 60cm
17										
18										
19										
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002305 **Field ID** PSNT03

County Waushara

Lat 43.9823 **Long** -89.54688

Describer Ana Genthe **Date** 11/1/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT03


WUWN VQ828

Elevation 993.84 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 25 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 3.1 feet sample recovered)		18-1188 X	7.5YR 3/3 Dark Brown	medium sand	well	horizontal bedding (>1cm)			recore?
				7.5YR 5/4 Brown	medium sand	well	horizontal bedding (>1cm)	some manganese oxidation from 31-35cm		bed at 38-39cm 7.5YR 3/4 and at 49cm, and 53-56cm are 7.5YR 4/4 clayey sand
22				10YR 6/4 Light Yellowish Brown	medium sand	moderate				
23				7.5YR 5/4 Brown	medium sand	well				
24										End of borehole PSNT03.
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002306 **Field ID** PSNT04

County Waushara

Lat 43.98784 **Long** -89.55634

Describer Ana Genthe **Date** 9/28/18

Drill Method direct push

Notes

Site Name WGNHS Central Sands PSNT04


WUWN

Elevation 1019.76 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 32 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 1.1 feet sample recovered)		18-1060 X	7.5 YR 4/2 Brown	medium sand	moderate				Road grade, medium grained silty sand, subrounded
				7.5 YR 6/3 Light Brown	medium sand	poor		Oxidation at 29.5 cm	weak	Medium to fine grained silty sand, subrounded, variation in color throughout
2										
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002306 **Field ID** PSNT04

County Waushara

Lat 43.98784 **Long** -89.55634

Describer Ana Genthe **Date** 9/28/18

Drill Method direct push

Notes

Site Name WGNHS Central Sands PSNT04


WUWN

Elevation 1019.76 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 32 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 2.1 feet sample recovered)			6/3 light brown 7.5 YR	sand & gravel	poor			moderate	Medium grained silty sand & gravel, subrounded, sandstone and dolomite clasts
				7.5 YR 6/3 Light Brown	sand & gravel	poor			moderate	Med-coarse sand & gravel, sandstone and dolomite clasts
7			18-1062 X							
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002306 **Field ID** PSNT04

County Waushara

Lat 43.98784 **Long** -89.55634

Describer Ana Genthe **Date** 9/28/18

Drill Method direct push

Notes

Site Name WGNHS Central Sands PSNT04


WUWN

Elevation 1019.76 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 32 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 1.6 feet sample recovered)		18-1064 X	7.5 YR 6/3 Light Brown	sand & gravel	poor			moderate	Med-coarse sand & gravel
12				7.5 YR 5/4 Brown	sand & gravel	poor			moderate	Med-coarse sand & gravel
13										
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002306 **Field ID** PSNT04

County Waushara

Lat 43.98784 **Long** -89.55634

Describer Ana Genthe **Date** 9/28/18

Drill Method direct push

Notes

Site Name WGNHS Central Sands PSNT04


WUWN

Elevation 1019.76 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 32 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 1.3 feet sample recovered)		18-1066 X	10 YR 6/4 Light Yellowish Brown	sand & gravel	poor			moderate	Med sand & gravel, subangular, 10 YR 3/4 Dark Yellowish Brown @ base 15-17 cm
17				10 YR 6/4 Light Yellowish Brown	medium sand	well	horizontal bedding (>1cm)			Rounded, color variation 10 YR 8/4 V. Pale Brown
18	Section 4 (15 - 20 feet, 1.3 feet sample recovered)									
19										
20	Section 4 (15 - 20 feet, 1.3 feet sample recovered)									

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002306 **Field ID** PSNT04

County Waushara

Lat 43.98784 **Long** -89.55634

Describer Ana Genthe **Date** 9/28/18

Drill Method direct push

Notes

Site Name WGNHS Central Sands PSNT04

WUWN

Elevation 1019.76 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 32 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 1.4 feet sample recovered)		18-1067 X	10 YR very pale 8/4 brown	medium sand	well	horizontal bedding (>1cm)			Rounded, possible crushed sandstone 0-13 cm, horizontal bed from 0-13cm
				10 YR brownish 6/8 yellow	medium sand	well	horizontal bedding (>1cm)			
				10 YR 7/3 very pale brown	sand & gravel	poor	horizontal bedding (>1cm)		weak	Rounded, possible crushed sandstone 0-13 cm
										Medium to coarse grained sand & gravel
			18-1068 X							
22										
23										
24										
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002306 **Field ID** PSNT04

County Waushara

Lat 43.98784 **Long** -89.55634

Describer Ana Genthe **Date** 9/28/18

Drill Method direct push

Notes

Site Name WGNHS Central Sands PSNT04


WUWN

Elevation 1019.76 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 32 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
	Section 6 (25 - 30 feet, 2.7 feet sample recovered)			10 YR 6/3 pale brown	sand & gravel	poor			weak	Medium to coarse grained sand & gravel, subangular
26				7.5 YR 7/8 reddish yellow	medium sand	well	horizontal lamination (<1cm)			Rounded, bedrock
27				10 YR 7/6 yellow	medium sand	well	horizontal lamination (<1cm)			Rounded, bedrock
28			18-1070 X							
29										
30										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002306 **Field ID** PSNT04

County Waushara

Lat 43.98784 **Long** -89.55634

Describer Ana Genthe **Date** 9/28/18

Drill Method direct push

Notes

Site Name WGNHS Central Sands PSNT04


WUWN

Elevation 1019.76 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 32 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
31	Section 7 (30 - 32 feet, 1.5 feet sample recovered)		18-1071 X	2.5 Y 8/3 Pale Brown	fine sand	well	horizontal lamination (<1cm)			Rounded, horizontal laminations varying in color, other colors in laminations are 7.5 YR 5/6 Reddish Yellow & 7.5 YR 5/8 Strong Brown
32										

End of borehole
PSNT04.

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002307 **Field ID** PSNT05 **Site Name** WGNHS Central Sands PSNT05
County Waushara **WUWN** VQ829
Lat 43.98672 **Long** -89.54539 **Elevation** 1021.03 ft **Method** RTK_Offset
Describer Ana Genteh **Date** 11/13/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 55 ft
Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
	Section 1 (0 - 5 feet, 1.9 feet sample recovered)			7.5YR 4/4 Brown	medium sand	poor				Road grade
			19-281 ×	7.5YR 3/2 Dark Brown	medium sand	moderate moderate	horizontal lamination (<1cm)			Road grade?
1			19-282 ×	7.5YR 5/6 Strong Brown	medium sand					
			19-283 ×	7.5YR 4/4 Brown	medium sand	moderate	horizontal lamination (<1cm)			Clayey Lamination at 49cm
			19-284 ×							
2			19-285 ×	7.5YR Brown	medium sand	well				
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002307 **Field ID** PSNT05 **Site Name** WGNHS Central Sands PSNT05
County Waushara **WUWN** VQ829
Lat 43.98672 **Long** -89.54539 **Elevation** 1021.03 ft **Method** RTK_Offset
Describer Ana Genteh **Date** 11/13/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 55 ft
Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
	Section 2 (5 - 10 feet, 2.3 feet sample recovered)		19-286 X	7.5YR 4/6 Strong Brown	medium sand	well	horizontal bedding (>1cm)			
			19-287 X	7.5YR 5/6 Strong Brown	medium sand	well	horizontal lamination (<1cm)			
6				7.5YR 4/6 Strong Brown	medium sand	well				gravel ~5%
				7.5YR 6/4 Light Brown	medium sand	well	horizontal lamination (<1cm)			Laminations and beds are clayey sand 7.5YR 4/6 Strong Brown
			19-289 X							
7			19-290 X							
8										
9										
10										

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SEDIMENT DESCRIPTION

WGNHS ID 70002307 **Field ID** PSNT05 **Site Name** WGNHS Central Sands PSNT05
County Waushara **WUWN** VQ829
Lat 43.98672 **Long** -89.54539 **Elevation** 1021.03 ft **Method** RTK_Offset
Describer Ana Genteh **Date** 11/13/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 55 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 2.2 feet sample recovered)		19-291 ×	7.5YR 6/4 Light Brown	sand & gravel	well	horizontal lamination (<1cm)			sparse gravel
			19-292 ×	7.5YR 5/6 Strong Brown	medium sand	well	horizontal bedding (>1cm)			clayey laminations and beds 7.5YR 4/6 Strong Brown
			19-293 ×							
12			19-295 ×	7.5YR 4/6 Strong Brown	medium sand	moderate	horizontal lamination (<1cm)			sparse gravel
				7.5YR 6/4 Light Brown	medium sand	well				
13										
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002307 **Field ID** PSNT05 **Site Name** WGNHS Central Sands PSNT05
County Waushara **WUWN** VQ829
Lat 43.98672 **Long** -89.54539 **Elevation** 1021.03 ft **Method** RTK_Offset
Describer Ana Genteh **Date** 11/13/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 55 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 2.1 feet sample recovered)		19-296 X	7.5YR 4/6 Strong Brown	medium sand	well				
				7.5YR 6/6 Reddish Yellow	medium sand	well	horizontal lamination ($<1\text{cm}$)			
17			19-299 X							
18										
19										
20										

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SEDIMENT DESCRIPTION

WGNHS ID 70002307 **Field ID** PSNT05 **Site Name** WGNHS Central Sands PSNT05
County Waushara **WUWN** VQ829
Lat 43.98672 **Long** -89.54539 **Elevation** 1021.03 ft **Method** RTK_Offset
Describer Ana Genteh **Date** 11/13/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 55 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 2 feet sample recovered)		19-301 X	10YR 5/6 Yellowish Brown	medium sand	well	horizontal lamination (<1cm)			sparse gravel
22										
23										
24										
25										

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SEDIMENT DESCRIPTION

WGNHS ID 70002307 **Field ID** PSNT05 **Site Name** WGNHS Central Sands PSNT05
County Waushara **WUWN** VQ829
Lat 43.98672 **Long** -89.54539 **Elevation** 1021.03 ft **Method** RTK_Offset
Describer Ana Genteh **Date** 11/13/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 55 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes	
26	Section 6 (25 - 30 feet, 1.7 feet sample recovered)		19-304 X	10YR 5/6 Yellowish Brown	medium sand	well	horizontal			sparse gravel. Laminations at 27-28cm dark brown silty sand, laminations at 42-43cm is brown clayey sand	
27											19-306 X
28											
29											
30											

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002307 **Field ID** PSNT05 **Site Name** WGNHS Central Sands PSNT05
County Waushara **WUWN** VQ829
Lat 43.98672 **Long** -89.54539 **Elevation** 1021.03 ft **Method** RTK_Offset
Describer Ana Genteh **Date** 11/13/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 55 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
31	Section 7 (30 - 35 feet, 1.7 feet sample recovered)		19-308 X	10YR 6/4 Light Yellowish Brown	medium sand	well	horizontal lamination (<1cm)			clay lamination at 15cm
32			19-309 X 19-310 X	10YR 6/4 Light Yellowish Brown	fine sand	well				
33										
34										
35										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002307 **Field ID** PSNT05 **Site Name** WGNHS Central Sands PSNT05
County Waushara **WUWN** VQ829
Lat 43.98672 **Long** -89.54539 **Elevation** 1021.03 ft **Method** RTK_Offset
Describer Ana Genteh **Date** 11/13/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 55 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
36	Section 8 (35 - 40 feet, 1.4 feet sample recovered)		19-311 ×	10YR 6/4 Light Yellowish Brown	medium sand	well				
			19-312 ×	10YR 6/4 Light Yellowish Brown	fine sand	well				
			19-313 ×	10YR 4/4 Dark Yellowish Brown	fine sand	well	horizontal lamination (<1cm)			
			19-314 ×	10YR 6/4 Light Yellowish Brown	medium sand	well	horizontal bedding (>1cm)			
37										
38										
39										
40										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002307 **Field ID** PSNT05 **Site Name** WGNHS Central Sands PSNT05
County Waushara **WUWN** VQ829
Lat 43.98672 **Long** -89.54539 **Elevation** 1021.03 ft **Method** RTK_Offset
Describer Ana Genteh **Date** 11/13/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 55 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
41	Section 9 (40 - 45 feet, 1.4 feet sample recovered)		19-316 X	10YR 5/4 Yellowish Brown	medium sand	moderate				trace gravel
42										
43										
44										
45										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002307 **Field ID** PSNT05 **Site Name** WGNHS Central Sands PSNT05
County Waushara **WUWN** VQ829
Lat 43.98672 **Long** -89.54539 **Elevation** 1021.03 ft **Method** RTK_Offset
Describer Ana Genteh **Date** 11/13/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 55 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
46	Section 10 (45 - 50 feet, 0 feet sample recovered)		19-318 X	10YR 5/4 Yellowish Brown	medium sand	moderate	horizontal bedding (>1cm)			horizontal beds at 23,30,and 34cm 10YR 4/6 Dark Yellowish Brown
47										
48										
49										
50										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002307 **Field ID** PSNT05 **Site Name** WGNHS Central Sands PSNT05
County Waushara **WUWN** VQ829
Lat 43.98672 **Long** -89.54539 **Elevation** 1021.03 ft **Method** RTK_Offset
Describer Ana Genteh **Date** 11/13/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 55 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
51	Section 11 (50 - 55 feet, 2 feet sample recovered)		19-323 ✕	10YR 6/4 Light Yellowish Brown	medium sand	well	horizontal bedding (>1cm)			trace gravel
52										
53										End of borehole PSNT05.
54										
55										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000214 **Field ID** PSNT06

County Waushara

Lat 43.98108 **Long** -89.54892

Describer S. Dodge & A. Genthe **Date** 9/17/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT06


WUWN VQ830

Elevation 999.77 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 30 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 3.4 feet sample recovered)		18-709 X	10 YR 4/3 Brown	medium sand	well				Road grade
2				7.5 YR 6/4 Light Brown	fine sand	well				Fine-medium sand
3				7.5 YR 6/4 Light Brown	medium sand	well				Medium-course sand
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000214 **Field ID** PSNT06

County Waushara

Lat 43.98108 **Long** -89.54892

Describer S. Dodge & A. Genthe **Date** 9/17/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT06

WUWN VQ830

Elevation 999.77 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 30 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
	Section 2 (5 - 10 feet, 3 feet sample recovered)		18-712 ✕ 18-713 ✕		n/a, Recore, distorted					Recore, distorted
6				7.5 YR 7/4 Pink	medium sand	well	horizontal lamination (<1cm)			Fine-medium sand, possible horizontal lamination
7				7.5 YR 6/4 Light Brown	medium sand	well				
8				7.5 YR 4/4 Brown	fine sand	well		Oxidation		Silty fine sands, minimal granules
				7.5 YR 6/4 Light Brown	fine sand	well				
				7.5 YR 4/6 Strong Brown	fine sand	well				Silty fine sands
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000214 **Field ID** PSNT06

County Waushara

Lat 43.98108 **Long** -89.54892

Describer S. Dodge & A. Genthe **Date** 9/17/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT06

WUWN VQ830

Elevation 999.77 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 30 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
	Section 3 (10 - 15 feet, 2.8 feet sample recovered)		18-717 X		n/a, Recore					Recore
11				7.5 YR 5/4 Brown	fine sand	well	horizontal lamination (<1cm)			Slight horizontal lamination, possible clay pockets
				7.5 YR 6/4 Light Brown	fine sand	well	horizontal lamination (<1cm)			7.5 YR 5/4 brown, silty fine sand lamination
12				7.5 YR 5/4 Pink	fine sand	well	horizontal bedding (>1cm)			7.5 YR 5/4 brown, horizontal lamination @65-69 cm, silty fine sand
				7.5 YR 8/2 Pinkish White	fine sand	well	horizontal lamination (<1cm)			
13										
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000214 **Field ID** PSNT06

County Waushara

Lat 43.98108 **Long** -89.54892

Describer S. Dodge & A. Genthe **Date** 9/17/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT06

WUWN VQ830

Elevation 999.77 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 30 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 3.2 feet sample recovered)				n/a, Recore					Recore
17				7.5 YR 7/2 Pinkish Grey	fine sand	well	horizontal lamination (<1cm)			7.5 YR 4/4 brown sandy silt laminations, trace clay
18			18-720 X	7.5 YR 5/2 Brown	silt	moderate		Reduced		Sandy silt, granules
			18-721 X	7.5 YR 4/4 Brown	silt	moderate		Reduced		Sandy silt, granules
				7.5 YR 7/2 Pinkish Grey	fine sand	well	horizontal lamination (<1cm)			Fine-medium sand, silt laminations
				7.5 YR 4/3 Brown	sand & gravel	poor				Sandy clay and gravel, diamict?
19			18-722 X							
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000214 **Field ID** PSNT06

County Waushara

Lat 43.98108 **Long** -89.54892

Describer S. Dodge & A. Genthe **Date** 9/17/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT06



WUWN VQ830

Elevation 999.77 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 30 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
	Section 5 (20 - 25 feet, 2.8 feet sample recovered)		18-723 X		n/a, Recore, distorted					Recore, distorted
21				7.5 YR 5/4 Brown	medium sand	well	horizontal lamination (<1cm)			
22				7.5 YR 5/4 Brown	medium sand	moderate	horizontal lamination (<1cm)			Sandy clay horizontal laminations, clast at 52cm
				7.5 YR 7/3 Pink	medium sand	well	horizontal lamination (<1cm)			Fine-medium sand
23			18-725 X							
24										
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000214 **Field ID** PSNT06

County Waushara

Lat 43.98108 **Long** -89.54892

Describer S. Dodge & A. Genthe **Date** 9/17/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT06


WUWN VQ830

Elevation 999.77 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 30 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
26	Section 6 (25 - 30 feet, 2.6 feet sample recovered)		18-728 X	7.5 YR 5/4 Brown	medium sand	moderate				Minimal Granules, Silty Sand & Gravel at 52-58cm
27										
28				7.5 YR 5/4 Brown	fine sand	well				
29										End of borehole PSNT06.
30										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000215 **Field ID** PSNT07

County Waushara

Lat 43.98207 **Long** -89.55164

Describer S. Dodge **Date** 7/30/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT07


WUWN VQ831

Elevation 1010.24 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 40 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 1.8 feet sample recovered)		18-450 X	10 YR 3/2 Very Dark Grayish Brown	medium sand	well				
				7.5 YR 5/6 Strong Brown	medium sand	well				Clast @ 21-23cm
				10 YR 7/4 Very Pale Brown	medium sand	well				Med-course sand
2										
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000215 **Field ID** PSNT07

County Waushara

Lat 43.98207 **Long** -89.55164

Describer S. Dodge **Date** 7/30/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT07

WUWN VQ831

Elevation 1010.24 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 40 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 1.9 feet sample recovered)		18-453 ×	7.5 YR 6/4 Light Brown	coarse sand	moderate	horizontal bedding (>1cm)			Med-coarse sand & gravel
7										
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000215 **Field ID** PSNT07

County Waushara

Lat 43.98207 **Long** -89.55164

Describer S. Dodge **Date** 7/30/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT07


WUWN VQ831

Elevation 1010.24 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 40 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 2.1 feet sample recovered)		18-455 X	7.5 YR 7/3 Pink	sand & gravel	moderate	horizontal lamination (<1cm)			Med-coarse sand & gravel, slight H. laminations
12				7.5 YR 8/2 Pinkish White	medium sand	well	horizontal lamination (<1cm)			Fine-med sand, slight H. laminations, gravel @ 58-62cm
13										
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000215 **Field ID** PSNT07

County Waushara

Lat 43.98207 **Long** -89.55164

Describer S. Dodge **Date** 7/30/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT07

WUWN VQ831

Elevation 1010.24 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 40 ft

For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 2.9 feet sample recovered)			7.5 YR 8/2 Pinkish White	medium sand	well	horizontal lamination (<1 cm)			Fine-med sand, 7.5 YR 7/3 very pale brown laminations
17										
18										
19										
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000215 **Field ID** PSNT07 **Site Name** WGNHS Central Sands PSNT07
County Waushara **WUWN** VQ831
Lat 43.98207 **Long** -89.55164 **Elevation** 1010.24 ft **Method** RTK_Offset
Describer S. Dodge **Date** 7/30/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 40 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 2.9 feet sample recovered)		18-460 X	7.5 YR 8/2 Pinkish White	medium sand	well	horizontal lamination (<1cm)			Recore @ top 3cm, 7.5 YR 6/3 Light Brown Fine Sand Laminations
22										
23										
24										
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000215 **Field ID** PSNT07 **Site Name** WGNHS Central Sands PSNT07
County Waushara **WUWN** VQ831
Lat 43.98207 **Long** -89.55164 **Elevation** 1010.24 ft **Method** RTK_Offset
Describer S. Dodge **Date** 7/30/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 40 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
26	Section 6 (25 - 30 feet, 2.9 feet sample recovered)		18-462 X	7.5 YR 8/2 Pinkish White	fine sand	well	horizontal lamination (<1 cm)			Recore @ top 3 cm, fine sand with minimal gravel, slight color change @ 75-88cm: 7.5 YR 7/3 very pale brown fine-med sand
27										
28										
29										
30										


*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000215 **Field ID** PSNT07 **Site Name** WGNHS Central Sands PSNT07
County Waushara **WUWN** VQ831
Lat 43.98207 **Long** -89.55164 **Elevation** 1010.24 ft **Method** RTK_Offset
Describer S. Dodge **Date** 7/30/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 40 ft
Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes			
31	Section 7 (30 - 35 feet, 3.3 feet sample recovered)		18-464 ✕ 18-465 ✕ 18-466 ✕ 18-467 ✕ 18-468 ✕	10 YR 6/4 Light Yellowish Brown	coarse sand	moderate				Med-coarse sand & gravel, fine sand pocket @ 23cm			
32				7.5 YR 4/2 Brown	silt	well	horizontal lamination (1cm)			V. fine sandy silt with granules, gravel @ 80-83cm, 95-102cm, possible diamict?			
33				5 YR 4/3 Reddish Brown	silt	well	horizontal lamination (1cm)			V. fine sandy silt with granules, gravel @ 80-83cm, 95-102cm, possible diamict?			
				7.5 YR 6/4 light Brown	silt	well	horizontal lamination (1cm)			V. fine sandy silt with granules, gravel @ 80-83cm, 95-102cm, possible diamict?			
34													
35													

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000215 **Field ID** PSNT07 **Site Name** WGNHS Central Sands PSNT07
County Waushara **WUWN** VQ831
Lat 43.98207 **Long** -89.55164 **Elevation** 1010.24 ft **Method** RTK_Offset
Describer S. Dodge **Date** 7/30/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 40 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
36	Section 8 (35 - 40 feet, 3.3 feet sample recovered)			7.5 YR 5/3 Brown	sand & gravel	moderate				Silty med sand with gravel, minimal gravel (granules? pebbles)
37			18-470 18-471 18-472 18-473	7.5 YR 5/4 Brown	sand & gravel	moderate	horizontal lamination (<1cm)			Silty med sand with gravel, H. laminations: 7.5 YR 5/3 brown silty V.F. sand, minimal gravel (granules)
38			18-475	7.5 YR 6/4 light Brown	medium sand	well				Med-coarse sand, possible diamict
39										End of borehole PSNT07.
40										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000216 **Field ID** PSNT08

County Waushara

Lat 43.98082 **Long** -89.5543

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands PSNT08

WUWN VQ832

Elevation 987.96 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 20 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.5 feet sample recovered)		18-429 X	10 YR 3/2 Very Dark Grayish Brown	medium sand	well				Silty med sand, road grade
				10 YR 4/4 Dark Yellowish Brown	medium sand	well				Silty med sand, gravel @ 23-26cm
				10 YR 7/4 Very Pale Brown	medium sand	well				Fine-med sand
2				10 YR 8/3 Very Pale Brown, 10 YR 4/4 Dark Yellowish Brown	medium sand	moderate	horizontal bedding (>1cm)			10 YR 8/3 Very Pale Brown: med-coarse sand, 10. sandy clay beds@ 50-56cm, 62-67cm, 68-76cm, sand bed @ 56-67cm, 67-68cm
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000216 **Field ID** PSNT08

County Waushara

Lat 43.98082 **Long** -89.5543

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands PSNT08

WUWN VQ832

Elevation 987.96 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 20 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 3.4 feet sample recovered)		18-434	10 YR 6/4 light Yellowish Brown	fine sand	well				Possible recore, fine-med sand, distorted bedding
			18-435	7.5 YR 5/4 Brown	clay	moderate	horizontal bedding (>1cm)			Sandy clay, clay > sandy clay beds
			18-436							
			18-437	7.5 YR 6/4 Light Brown	fine sand	moderate	horizontal bedding (>1cm)			Clayish fine sand, clay > clay fine beds
			18-438							
			18-441							
8			18-442							
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000216 **Field ID** PSNT08

County Waushara

Lat 43.98082 **Long** -89.5543

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands PSNT08

WUWN VQ832

Elevation 987.96 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 20 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 4.8 feet sample recovered)		18-443 X		n/a, Recore					Recore
12				7.5 YR 5/4 Brown	fine sand	well				Silty fine sand, wet core
13				10 YR 5/4 Yellowish Brown	coarse sand	well				Med-coarse sand, silt pocket @ 86-90cm
14				10 YR 5/4 Yellowish Brown	silt	well	horizontal lamination (<1cm)			Sandy silt
15				10 YR 6/4 light Yellowish Brown	sand & gravel	moderate	horizontal bedding (>1cm)			Silty med sand & gravel, gravel beds @ 132-134cm, 139-146cm
			18-446 X							

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000216 **Field ID** PSNT08

County Waushara

Lat 43.98082 **Long** -89.5543

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands PSNT08

WUWN VQ832

Elevation 987.96 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 20 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 4.6 feet sample recovered)			10 YR 5/4 Yellowish Brown	coarse sand	poor				Silty med-coarse sand & gravel, large % of gravel
17				10 YR 5/3 Brown	fine sand	well				Silty fine sand
18				10 YR 5/3 Brown	coarse sand	moderate				Med-course sand & gravel, small % of gravel
19										
20			18-449 X							End of borehole PSNT08.

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000217 **Field ID** PSNT09

County Waushara

Lat 43.98088 **Long** -89.55748

Describer Ana Genthe **Date** 11/9/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT09

WUWN VQ833

Elevation 1007.47 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 40 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.1 feet sample recovered)			7.5YR 3/4 Dark Brown	fine sand	moderate				Road grade
				7.5YR 4/6 Strong Brown	fine sand	moderate				Roots, bark and other plant matter throughout
2				7.5YR 6/6 Reddish Yellow	medium sand	well	horizontal lamination (<1cm)			from 51-55cm broken gray rock fragments
				7.5YR 6/6 Reddish Yellow	medium sand	well				
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000217 **Field ID** PSNT09

County Waushara

Lat 43.98088 **Long** -89.55748

Describer Ana Genthe **Date** 11/9/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT09


WUWN VQ833

Elevation 1007.47 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 40 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 1.7 feet sample recovered)			10YR 6/4 Light Yellowish Brown	medium sand	well	horizontal lamination (<1cm)			
				7.5YR 4/6 Strong Brown	fine sand	moderate				
				10YR 5/6 Yellowish Brown	medium sand	well	horizontal lamination (<1cm)			
				20YR 3/2 Very Dark Grayish Brown	medium sand	poor				broken rock?
					medium sand	well				44-46 clay glob
					medium sand	moderate				7.5YR 4/6 Strong Brown
					fine sand					
7				10YR 6/4 Light Yellowish Brown						
				10YR 6/6 Yellowish Brown						
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000217 **Field ID** PSNT09

County Waushara

Lat 43.98088 **Long** -89.55748

Describer Ana Genthe **Date** 11/9/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT09


WUWN VQ833

Elevation 1007.47 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 40 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 2.6 feet sample recovered)			10YR 6/4 Light Yellowish Brown	medium sand	well	horizontal lamination (<1cm)			10YR 3/6 Dark Yellowish Brown laminations
				7.5YR 4/6 Strong Brown	medium sand	moderate				
				10YR 3/4 Dark Yellowish Brown	fine sand	moderate		reduced?		White clay layer at 17-18cm 10YR 7/4 Very Pale Brown
12				10YR 5/2 Grayish Brown	coarse sand	poor		reduced?		
				10YR 4/2 Dark Grayish Brown	fine sand	well		reduced clay?		
				7.5YR 4/4 Brown	silt	well	horizontal lamination (<1cm)			Sand laminations
				7.5YR 6/4 Light Brown	fine sand	well	horizontal lamination (<1cm)			clay laminations
13										
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000217 **Field ID** PSNT09

County Waushara

Lat 43.98088 **Long** -89.55748

Describer Ana Genthe **Date** 11/9/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands PSNT09

WUWN VQ833

Elevation 1007.47 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 40 ft


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 1.3 feet sample recovered)			7.5YR 4/4 Brown	silt	well				
				10YR 7/3 Very Pale Brown	medium sand	well	horizontal lamination (<1cm)			laminations at 8, 13, 15, and 31cm
17				7.5 YR 4/6 Strong Brown	fine sand	well	horizontal lamination (<1cm)			
18										
19										
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000217 **Field ID** PSNT09 **Site Name** WGNHS Central Sands PSNT09
County Waushara **WUWN** VQ833
Lat 43.98088 **Long** -89.55748 **Elevation** 1007.47 ft **Method** RTK_Offset
Describer Ana Genthe **Date** 11/9/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 40 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 0.1 feet sample recovered)			7.5YR 6/4 Light Brown	medium sand	moderate				
22										
23										
24										
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000217 **Field ID** PSNT09 **Site Name** WGNHS Central Sands PSNT09
County Waushara **WUWN** VQ833
Lat 43.98088 **Long** -89.55748 **Elevation** 1007.47 ft **Method** RTK_Offset
Describer Ana Genthe **Date** 11/9/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 40 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
26	Section 6 (25 - 30 feet, 3 feet sample recovered)			10YR 6/4 Light Yellowish Brown	medium sand	well	horizontal lamination (<1cm)			trace gravel
				10YR 6/4 Light Yellowish Brown	medium sand	well	horizontal lamination (<1cm)			
27				10YR 5/4 Yellowish Brown	medium sand	well				trace gravel
28										
29										
30										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000217 **Field ID** PSNT09 **Site Name** WGNHS Central Sands PSNT09
County Waushara **WUWN** VQ833
Lat 43.98088 **Long** -89.55748 **Elevation** 1007.47 ft **Method** RTK_Offset
Describer Ana Genthe **Date** 11/9/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 40 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
	Section 7 (30 - 35 feet, 1.8 feet sample recovered)			7.5YR 6/4 Light Brown	fine sand	well	horizontal lamination ($<1\text{cm}$)			
31				10YR 6/4 Light Yellowish Brown	medium sand	well				trace gravel
32										
33										
34										
35										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000217 **Field ID** PSNT09 **Site Name** WGNHS Central Sands PSNT09
County Waushara **WUWN** VQ833
Lat 43.98088 **Long** -89.55748 **Elevation** 1007.47 ft **Method** RTK_Offset
Describer Ana Genthe **Date** 11/9/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 40 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
36	Section 8 (35 - 40 feet, 3.8 feet sample recovered)			7.5YR 6/4 Light Brown	fine sand	well				
37				7.5YR 5/4 Brown	fine sand	well				
				10YR 6/4 Light Yellowish Brown	medium sand	well	horizontal bedding (>1cm)			fine grained bed of sand from 65-67cm
				7.5YRR 5/3 Brown	fine sand	well				
38				10YR 7/3 Very Pale Brown	medium sand	moderate	horizontal lamination (<1cm)			distorted laminations
39										End of borehole PSNT09.
40										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002308 **Field ID** PSNT10

County Waushara

Lat 43.98499 **Long** -89.54472

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands PSNT10

WUWN VQ834

Elevation 1023.13 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 55 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.7 feet sample recovered)		18-476 X 18-477 X	10 YR 4/3 Brown	medium sand	well				Road grade, med-coarse sand
				7.5 YR 6/4 Light Brown	medium sand	well				Silty med sand, small % of granules
2				7.5 YR 5/6 Strong Brown	medium sand	well				Clast @ 46cm, small % of granules
3				7.5 YR 8/4 Pink	fine sand	well				
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002308 **Field ID** PSNT10

County Waushara

Lat 43.98499 **Long** -89.54472

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands PSNT10

WUWN VQ834

Elevation 1023.13 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 55 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 2.6 feet sample recovered)		18-478 X	7.5 YR 7/4 Pink	fine sand	well	horizontal bedding (>1cm)	Oxidized beds		Possible Recore, 0-14cm: Distortion, Med Sand, 7.5 YR 7/4
				7.5 YR 6/6 Reddish Yellow	fine sand	well	horizontal lamination (<1cm)	Oxidized laminations		
7				7.5 YR 7/4 Pink						
				7.5 YR 7/4 Pink	medium sand	well				
8			18-479 X							
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002308 **Field ID** PSNT10

County Waushara

Lat 43.98499 **Long** -89.54472

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.




Site Name WGNHS Central Sands PSNT10

WUWN VQ834

Elevation 1023.13 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 55 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 2.5 feet sample recovered)		18-480 X	7.5 YR 7/4 Pink	medium sand	well				Small % granules
				7.5 YR 8/3 Pink	medium sand	well				Small % granules
				7.5 YR 7/3 Pink	fine sand	well	horizontal lamination (<1cm)			
12	Section 3 (10 - 15 feet, 2.5 feet sample recovered)		18-480 X							
13										
14										
15	Section 3 (10 - 15 feet, 2.5 feet sample recovered)		18-480 X							

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002308 **Field ID** PSNT10

County Waushara

Lat 43.98499 **Long** -89.54472

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT10


WUWN VQ834

Elevation 1023.13 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 55 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 3.1 feet sample recovered)			7.5 YR 8/3 Pink	n/a, Recore medium sand	well	horizontal lamination (<1cm)			Recore Small % granules
17										
18										
19										
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002308 **Field ID** PSNT10

County Waushara

Lat 43.98499 **Long** -89.54472

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

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For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands PSNT10

WUWN VQ834

Elevation 1023.13 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 55 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
					n/a, Recore					Recore
21	Section 5 (20 - 25 feet, 2.9 feet sample recovered)			7.5 YR 8/3 Pink	fine sand	well	horizontal lamination (<1cm)			Gravel Beds @ 51-53cm, 56-57cm, 61-62cm, 68-69cm
22										
23										
24										
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002308 **Field ID** PSNT10

County Waushara

Lat 43.98499 **Long** -89.54472

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT10

WUWN VQ834

Elevation 1023.13 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 55 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
26	Section 6 (25 - 30 feet, 3.3 feet sample recovered)			7.5 YR 8/3 Pink	n/a, Recore fine sand	well	horizontal lamination ($<1\text{cm}$)			Recore granules @ 79-83cm
27										
28										
29										
30										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002308 **Field ID** PSNT10

County Waushara

Lat 43.98499 **Long** -89.54472

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT10


WUWN VQ834

Elevation 1023.13 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 55 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
31	Section 7 (30 - 35 feet, 2.7 feet sample recovered)		18-485		n/a, Recore					Recore
				7.5 YR 8/3 Pink	fine sand	well	horizontal lamination (<1cm)			
32				7.5 YR 8/3 Pink	medium sand	well				
33										
34										
35										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002308 **Field ID** PSNT10

County Waushara

Lat 43.98499 **Long** -89.54472

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT10


WUWN VQ834

Elevation 1023.13 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 55 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
36	Section 8 (35 - 40 feet, 2.8 feet sample recovered)		18-487 X	7.5 YR 7/3 Pink	medium sand	moderate				Med-Coarse Sand & Gravel
				7.5 YR 7/3 Pink	medium sand	well	horizontal bedding (>1cm)			Coarser grained beds @ 31cm, 34-35cm, 43,45cm
37			18-488 X	7.5 YR 8/3 Pink	medium sand	well				Med-Coarse Sand, Clasts @ 50-53cm
38			18-489 X							
39										
40										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002308 **Field ID** PSNT10

County Waushara

Lat 43.98499 **Long** -89.54472

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands PSNT10

WUWN VQ834

Elevation 1023.13 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 55 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
41	Section 9 (40 - 45 feet, 2.9 feet sample recovered)			7.5 YR 6/3 Light Brown	medium sand	well				Possible Recore
42				7.5 YR 8/3 Pink	fine sand	well	horizontal lamination (<1cm)			Fine-Med Sand
43										
44										
45										

18-490
X

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002308 **Field ID** PSNT10

County Waushara

Lat 43.98499 **Long** -89.54472

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands PSNT10

WUWN VQ834

Elevation 1023.13 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 55 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
					n/a, Recore					Recore
46	Section 10 (45 - 50 feet, 3.1 feet sample recovered)			7.5 YR 7/3 Pink	medium sand	well	horizontal lamination (<1cm)			Fine-med sand, slight H. laminations, wet core ~35-93.5cm
47										
48										
49										
50										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002308 **Field ID** PSNT10

County Waushara

Lat 43.98499 **Long** -89.54472

Describer S. Dodge **Date** 8/6/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT10


WUWN VQ834

Elevation 1023.13 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 55 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
51	Section 11 (50 - 55 feet, 4.2 feet sample recovered)			7.5 YR 6/4 Light Brown	fine sand	well				Silty V. fine sand, wet core, slightly coarser sand @ 98-102cm
52										
53										
54										
55										
			18-492 X							End of borehole PSNT10.

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002309 **Field ID** PSNT11

County Waushara

Lat 43.98858 **Long** -89.549

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT11

WUWN VQ835

Elevation 984.13 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 15 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.5 feet sample recovered)			10 YR 3/4 Dark Yellowish Brown	medium sand	well				Road grade
				10 YR 4/2 Dark Greyish Brown	sand & gravel	moderate				Medium sand and gravel, distorted
2				10 YR 6/4 Light Yellowish Brown	medium sand	well				Medium to coarse sand, small % gravel
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002309 **Field ID** PSNT11

County Waushara

Lat 43.98858 **Long** -89.549

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands PSNT11

WUWN VQ835

Elevation 984.13 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 15 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
					n/a, Recore					Recore
6	Section 2 (5 - 10 feet, 3.9 feet sample recovered)			10 YR 5/3 Brown	sand & gravel	well				Medium course sand and gravel, minimal % gravel, wet core
7										
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002309 **Field ID** PSNT11

County Waushara

Lat 43.98858 **Long** -89.549

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands PSNT11

WUWN VQ835

Elevation 984.13 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 15 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
	Section 3 (10 - 15 feet, 4.5 feet sample recovered)				n/a, Recore					Recore
11				10 YR 5/2 Grayish Brown	coarse sand	well				
12										
13			18-373 X	10 YR 5/2 Grayish Brown	medium sand	moderate	horizontal bedding (>1cm)			Horizontal bedding or coarse sand / gravel beds
14			18-374 X							
			18-375 X	10 YR 6/1 Gray	silt	well				Sandy silt, organics
15										End of borehole PSNT11.

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002310 **Field ID** PSNT14

County Waushara

Lat 43.98806 **Long** -89.55237

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT14

WUWN VQ836

Elevation 993.95 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 20 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2.2 feet sample recovered)		18-390 X 18-391 X 18-392 X	10 YR 3/2 Very Dark Grayish Brown	medium sand	well				Road grade
				7.5 YR 6/6 Reddish Yellow	medium sand	well				Small % gravels
2				7.5 YR 6/6 Reddish Yellow	medium sand	well				Med-coarse sand, small % gravel
3				10 YR 7/4 V. Pale Brown	medium sand	well				
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002310 **Field ID** PSNT14

County Waushara

Lat 43.98806 **Long** -89.55237

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT14


WUWN VQ836

Elevation 993.95 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 20 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 3.2 feet sample recovered)		18-393 X		n/a, Recore					Recore
7				7.5 YR 7/4 Pink	medium sand	well	horizontal lamination ($<1\text{cm}$)	Oxidized Distortion @ 38-51cm		Faint H. laminations
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002310 **Field ID** PSNT14

County Waushara

Lat 43.98806 **Long** -89.55237

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT14

WUWN VQ836

Elevation 993.95 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 20 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 3.3 feet sample recovered)		18-394 X		n/a, Recore					Recore
12				7.5 YR 6/6 Reddish Yellow	medium sand	well	horizontal lamination (<1cm)			Coarser sand laminations, wet core, 2cm samples of med/coarse laminations
13										
14			18-397 X							
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002310 **Field ID** PSNT14

County Waushara

Lat 43.98806 **Long** -89.55237

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT14

WUWN VQ836

Elevation 993.95 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 20 ft

For more information, please contact us at data@wgnhs.wisc.edu.


Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 3.4 feet sample recovered)		18-398 X 18-399 X 18-400 X		n/a, Recore					Recore
17				7.5 YR 6/4 light Brown	medium sand	well	horizontal bedding (>1cm)			H. Bedding coarse sand @ 67cm, 80cm, 85-87cm, 90cm, 95-97cm, 100cm, silty med sand bed @ 82cm
18										
19										End of borehole PSNT14.
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000218 **Field ID** PSNT15 **Site Name** WGNHS Central Sands PSNT15
County Waushara **WUWN** VQ837
Lat 43.98213 **Long** -89.55947 **Elevation** 1024.86 ft **Method** RTK_Offset
Describer Stef Dodge **Date** 8/20/18 **Project** Central Sands Lakes Study
Drill Method direct push **Total Depth** 52 ft
Notes Corehole was completed as a monitoring well
 For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 1.1 feet sample recovered)			10 YR 4/4 dark yellowish brown	sand & gravel	well				All road grade, Med sand & gravel
2										
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000218 **Field ID** PSNT15

County Waushara

Lat 43.98213 **Long** -89.55947

Describer Stef Dodge **Date** 8/20/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT15


WUWN VQ837

Elevation 1024.86 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 52 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 1.4 feet sample recovered)		18-655 X	10 YR 4/6 dark yellowish brown	sand & gravel	well				Med sand & gravel, Crushed rock @ 7cm
				10 YR 7/4 very pale brown	medium sand	well	horizontal lamination (<1cm)			
7										
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000218 **Field ID** PSNT15

County Waushara

Lat 43.98213 **Long** -89.55947

Describer Stef Dodge **Date** 8/20/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands PSNT15

WUWN VQ837

Elevation 1024.86 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 52 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 1.9 feet sample recovered)		18-657 X	10 YR 7/4 very pale brown	medium sand	well	horizontal lamination (<1cm)			Slight laminations
12				7.5 YR 6/4 light brown	sand & gravel	poor				Fine-med sand & gravel, Crushed rock
13										
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000218 **Field ID** PSNT15

County Waushara

Lat 43.98213 **Long** -89.55947

Describer Stef Dodge **Date** 8/20/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT15


WUWN VQ837

Elevation 1024.86 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 52 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 2.8 feet sample recovered)		18-665 X	7.5 YR 8/3 pink	fine sand	well	horizontal bedding (>1cm)			
				7.5 YR 8/3 pink	medium sand	well	horizontal bedding (>1cm)			Med-coarse sand
				7.5 YR 8/3 pink	fine sand	well	horizontal bedding (>1cm)			7.5 YR 6/4 light brown beds
				7.5 YR 8/3 pink	fine sand	well				Fine-med sand
17				7.5 YR 8/3 pink	medium sand	well	horizontal bedding (>1cm)			Med-coarse sand, 7.5 YR 6/4 light brown beds, Minimal % of gravel
				7.5 YR 8/3 pink	medium sand	well	horizontal lamination (<1cm)			Fine sand laminations
18										
19										
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000218 **Field ID** PSNT15

County Waushara

Lat 43.98213 **Long** -89.55947

Describer Stef Dodge **Date** 8/20/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT15

WUWN VQ837

Elevation 1024.86 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 52 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 2.7 feet sample recovered)		18-668 X	7.5 YR 8/3 pink	medium sand	well	horizontal lamination (<1cm)			Slight laminations
22				7.5 YR 5/4 brown 7.5 YR 8/3 pink	fine sand medium sand	well well	horizontal bedding (>1cm)			Silty fine sand, Gravel Crushed rock @ 69cm
23										
24										
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000218 **Field ID** PSNT15

County Waushara

Lat 43.98213 **Long** -89.55947

Describer Stef Dodge **Date** 8/20/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands PSNT15

WUWN VQ837

Elevation 1024.86 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 52 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
26	Section 6 (25 - 30 feet, 2.6 feet sample recovered)		18-671 X	7.5 YR 8/3 pink	sand & gravel	well	horizontal bedding (>1cm)			Med-coarse sand, 7.5 YR 5/4 silty fine sand beds
27				7.5 YR 8/3 pink	sand & gravel	well				Med-coarse sand, Gravel @ 66-72cm
28										
29										
30										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000218 **Field ID** PSNT15

County Waushara

Lat 43.98213 **Long** -89.55947

Describer Stef Dodge **Date** 8/20/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands PSNT15

WUWN VQ837

Elevation 1024.86 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 52 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
31	Section 7 (30 - 35 feet, 1.2 feet sample recovered)		18-673 X	7.5 YR 8/3 pink	sand & gravel	moderate	horizontal bedding (>1cm)			Possible recore @ 0-5cm, Med-coarse sand & gravel, 7.5 YR 7/3 fine-med sand bed @ 5-10cm
32										
33										
34										
35										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000218 **Field ID** PSNT15

County Waushara

Lat 43.98213 **Long** -89.55947

Describer Stef Dodge **Date** 8/20/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands PSNT15

WUWN VQ837

Elevation 1024.86 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 52 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
36	Section 8 (35 - 40 feet, 2.6 feet sample recovered)		18-679 X	7.5 YR 8/3 pink	fine sand	well				Fine-med sand
				7.5 YR 8/3 pink	fine sand	well	horizontal bedding (>1cm)			fine-med sand
				7.5 YR 7/3 pink	fine sand	well	horizontal bedding (>1cm)			
37				7.5 YR 6/4 light brown	fine sand	well	horizontal lamination (<1cm)			Silty fine sand
				7.5 YR 8/3 pink	medium sand	well	horizontal bedding (>1cm)			
38										
39										
40										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000218 **Field ID** PSNT15

County Waushara

Lat 43.98213 **Long** -89.55947

Describer Stef Dodge **Date** 8/20/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands PSNT15

WUWN VQ837

Elevation 1024.86 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 52 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
41	Section 9 (40 - 45 feet, 3.1 feet sample recovered)			7.5 YR 7/3 pink	medium sand	well	horizontal bedding (>1cm)			Med-coarse sand
42				7.5 YR 6/4 light brown	fine sand	well				Silty fine sand @ 60-63cm
43				7.5 YR 7/3 pink	coarse sand	well				Med-coarse sand
				7.5 YR 6/4 light brown	medium sand	well				
44			18-684 X							
45										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 39000218 **Field ID** PSNT15

County Waushara

Lat 43.98213 **Long** -89.55947

Describer Stef Dodge **Date** 8/20/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands PSNT15

WUWN VQ837

Elevation 1024.86 ft **Method** RTK_Offset

Project Central Sands Lakes Study

Total Depth 52 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
46	Section 10 (45 - 52 feet, 4.2 feet sample recovered)		18-686 X	7.5 YR 6/4 light brown	medium sand	well				Silty beds @ 35-37cm
47										
48				7.5 YR 6/4 light brown	fine sand	well	horizontal lamination (<1cm)			Slightly silty throughout
49				7.5 YR 6/4 light brown	sand & gravel	well				
				7.5 YR 6/4 light brown	fine sand	well	horizontal lamination (<1cm)			
				7.5 YR 6/4 light brown	sand & gravel	well	horizontal lamination (<1cm)			
				7.5 YR 6/4 light brown	fine sand	well	horizontal lamination (<1cm)			
				7.5 YR 6/4 light brown	sand & gravel	well	horizontal lamination (<1cm)			
				7.5 YR 6/4 light brown	fine sand	well	horizontal lamination (<1cm)			
				7.5 YR 6/4 light brown	sand & gravel	well	horizontal lamination (<1cm)			
50			18-690 X	7.5 YR 6/4 light brown	sand & gravel	well				
				7.5 YR 6/4 light brown	fine sand	well	horizontal lamination (<1cm)			
				7.5 YR 6/4 light brown	sand & gravel	well	horizontal lamination (<1cm)			
				7.5 YR 6/4 light brown	fine sand	well	horizontal lamination (<1cm)			
				7.5 YR 6/4 light brown	sand & gravel	well	horizontal lamination (<1cm)			
51			18-694 X	7.5 YR 6/4 light brown	fine sand		horizontal lamination (<1cm)			End of borehole PSNT15.
				7.5 YR 6/4 light brown						
				7.5 YR 6/4 light brown						
52				7.5 YR						

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002311 **Field ID** PSNT16

County Waushara

Lat 43.98754 **Long** -89.55524

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT16

WUWN VQ838

Elevation 1009.19 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 35 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 2 feet sample recovered)			10 YR 4/4 Dark Yellowish Brown	medium sand	well				Road grade, fine-med sand
				7.5 YR 6/6 Reddish Yellow	fine sand	well	horizontal lamination (<1cm)			Fine-med sand, faint H. lamination
2			18-401 X 18-402 X	7.5 YR 6/6 Reddish Yellow	medium sand	well				Med-coarse Sand
3										
4										
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002311 **Field ID** PSNT16

County Waushara

Lat 43.98754 **Long** -89.55524

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands PSNT16

WUWN VQ838

Elevation 1009.19 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 35 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 1.8 feet sample recovered)		18-403 X	10 YR 6/6 Brownish Yellow	coarse sand	well				Med-coarse sand
				7.5 YR 8/3-7/4 Pink	medium sand	well	horizontal lamination (<1cm)			Slight H. laminations
7			18-404 X							
8										
9										
10										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002311 **Field ID** PSNT16

County Waushara

Lat 43.98754 **Long** -89.55524

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT16


WUWN VQ838

Elevation 1009.19 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 35 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 2.1 feet sample recovered)		18-405 ×	7.5 YR 8/3-7/4 Pink	medium sand	well				Med-coarse sand
12				7.5 YR 8/2 Pinkish White	sand & gravel	moderate				Med-coarse sand & gravel, large % gravel
13										
14										
15										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002311 **Field ID** PSNT16

County Waushara

Lat 43.98754 **Long** -89.55524

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT16


WUWN VQ838

Elevation 1009.19 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 35 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 2.1 feet sample recovered)		18-407 X	7.5 YR 8/2 Pinkish White	sand & gravel	moderate				Med-coarse sand & gravel
17				2.5 Y 4/2 Dark Grayish Brown	clay	poor		Reduced	strong	Sandy clay w/ gravel, diamict?
18										
19										
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002311 **Field ID** PSNT16

County Waushara

Lat 43.98754 **Long** -89.55524

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

Site Name WGNHS Central Sands PSNT16

WUWN VQ838

Elevation 1009.19 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 35 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 2.4 feet sample recovered)		18-409 X	2.5 Y 5/2 Grayish Brown	clay	poor		Reduced	strong	Sandy clay with gravel, diamict?
22			18-410 X	7.5 YR 6/4 light Brown	fine sand	well	horizontal lamination (<1cm)			Fine-med sand, faint H. laminations, minimal % gravel, slightly silty
23			18-411 X	10 YR 8/4 V. Pale Brown	fine sand	well				Fine-med sand, minimal % gravel
24										
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002311 **Field ID** PSNT16

County Waushara

Lat 43.98754 **Long** -89.55524

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.

Site Name WGNHS Central Sands PSNT16

WUWN VQ838

Elevation 1009.19 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 35 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
26	Section 6 (25 - 30 feet, 2.1 feet sample recovered)		18-413 X	10 YR 7/4 Very Pale Brown	medium sand	well	horizontal bedding (>1cm)			Faint H. bedding, wet core, minimal % gravel, large clast @ 17cm
27				10 YR 8/3 Very Pale Brown	medium sand	well				
28										
29										
30										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 70002311 **Field ID** PSNT16

County Waushara

Lat 43.98754 **Long** -89.55524

Describer S. Dodge **Date** 8/7/18

Drill Method direct push

Notes Corehole was completed as a monitoring well

For more information, please contact us at data@wgnhs.wisc.edu.


Site Name WGNHS Central Sands PSNT16

WUWN VQ838

Elevation 1009.19 ft **Method** RTK

Project Central Sands Lakes Study

Total Depth 35 ft

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
31	Section 7 (30 - 35 feet, 4.2 feet sample recovered)			2.5 Y 8/2 Pale Yellow	medium sand	well	horizontal lamination (<1cm)			Sandstone bedrock?
32										
33										
34										
35			18-414 X							End of borehole PSNT16.

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 1000832 **Field ID** NMR-G7

County _____

Lat 43.943736 **Long** -89.778083

Describer Ana Genthe **Date** 5/9/19

Drill Method rotosonic

Notes _____

Site Name Stanford NMR-G7

WUWN _____

Elevation 981 ft **Method** 5-ft DEM

Project Central Sands Lakes Study

Total Depth 65 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 5.1 feet sample recovered)				n/a, no recovery					no recovery
2										
3				7.5YR 4/3 brown	n/a, Top soil					Top soil
4				7.5YR 5/8 strong brown	medium sand	well		oxidation 135-154cm		
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 1000832 **Field ID** NMR-G7

County _____

Lat 43.943736 **Long** -89.778083

Describer Ana Genthe **Date** 5/9/19

Drill Method rotonomic

Notes _____

Site Name Stanford NMR-G7

WUWN _____

Elevation 981 ft **Method** 5-ft DEM

Project Central Sands Lakes Study

Total Depth 65 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 5.1 feet sample recovered)			7.5YR 7/4 pink	medium sand	well	horizontal lamination (<1cm)			
7										
8										
9				7.5YR 5/8 strong brown	medium sand	well	horizontal bedding (>1cm)		weak	
10				7.5YR 7/4 pink	medium sand	well		oxidation		
				7.5YR 5/8 strong brown	fine sand	well		oxidation		

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 1000832 **Field ID** NMR-G7

County _____

Lat 43.943736 **Long** -89.778083

Describer Ana Genthe **Date** 5/9/19

Drill Method rotononic

Notes _____

Site Name Stanford NMR-G7



WUWN _____

Elevation 981 ft **Method** 5-ft DEM

Project Central Sands Lakes Study

Total Depth 65 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 5.1 feet sample recovered)			10YR 5/6 yellowish brown	medium sand	well				
12										
13										
14										
15				10YR 5/6 yellowish brown	medium sand	well				

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 1000832 **Field ID** NMR-G7

County _____

Lat 43.943736 **Long** -89.778083

Describer Ana Genthe **Date** 5/9/19

Drill Method rotosonic

Notes _____

Site Name Stanford NMR-G7

WUWN _____

Elevation 981 ft **Method** 5-ft DEM

Project Central Sands Lakes Study

Total Depth 65 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 5.1 feet sample recovered)			10YR 5/6 yellowish brown	medium sand	well				
17										
18				10YR 5/6 yellowish brown	medium sand	well				
19										
20										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 1000832 **Field ID** NMR-G7

County _____

Lat 43.943736 **Long** -89.778083

Describer Ana Genthe **Date** 5/9/19

Drill Method rotonomic

Notes _____

Site Name Stanford NMR-G7

WUWN _____

Elevation 981 ft **Method** 5-ft DEM

Project Central Sands Lakes Study

Total Depth 65 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 5.1 feet sample recovered)			10YR 6/4 light yellowish brown	medium sand	moderate				
22										
23				10YR 6/4 light yellowish brown	medium sand	well				
24										
25										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 1000832 **Field ID** NMR-G7

County _____

Lat 43.943736 **Long** -89.778083

Describer Ana Genthe **Date** 5/9/19

Drill Method rotosonic

Notes _____

Site Name Stanford NMR-G7

WUWN _____

Elevation 981 ft **Method** 5-ft DEM

Project Central Sands Lakes Study

Total Depth 65 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
26	Section 6 (25 - 30 feet, 4.9 feet sample recovered)			10YR 6/4 light yellowish brown	medium sand	moderate				
27				10YR 6/4 light yellowish brown	medium sand	moderate				
28				10YR 6/4 light yellowish brown	medium sand	moderate				
29				10YR 6/4 light yellowish brown	fine sand	well	horizontal bedding (>1cm)			
30										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 1000832 **Field ID** NMR-G7

County _____

Lat 43.943736 **Long** -89.778083

Describer Ana Genthe **Date** 5/9/19

Drill Method rotonsonic

Notes _____

Site Name Stanford NMR-G7



WUWN _____

Elevation 981 ft **Method** 5-ft DEM

Project Central Sands Lakes Study

Total Depth 65 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
31	Section 7 (30 - 35 feet, 5.1 feet sample recovered)			10YR 6/4 light yellowish brown	medium sand	well				
32				10YR 6/4 light yellowish brown	medium sand	well	horizontal bedding (>1cm)			bedding distorted more at top. Color of siltbeds 10YR 5/4 yellowish brown and are seen at 55cm, 62cm, 104-127cm, and 145-150cm
33										
34										
35										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 1000832 **Field ID** NMR-G7

County _____

Lat 43.943736 **Long** -89.778083

Describer Ana Genthe **Date** 5/9/19

Drill Method rotonomic

Notes _____

Site Name Stanford NMR-G7

WUWN _____

Elevation 981 ft **Method** 5-ft DEM

Project Central Sands Lakes Study

Total Depth 65 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
	Section 8 (35 - 40 feet, 4.6 feet sample recovered)			10YR 6/4 light yellowish brown	medium sand	well	horizontal bedding (>1cm)			
36				10YR 4/2 dark grayish brown	silt	well			moderate	
37				10YR 4/2 dark grayish brown	silt	well			moderate	
38										
39										
				10YR 4/2 dark grayish brown	silt	well	horizontal lamination (<1cm)		moderate	
40										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 1000832 **Field ID** NMR-G7

County _____

Lat 43.943736 **Long** -89.778083

Describer Ana Genthe **Date** 5/9/19

Drill Method rotosonic

Notes _____

Site Name Stanford NMR-G7

WUWN _____

Elevation 981 ft **Method** 5-ft DEM

Project Central Sands Lakes Study

Total Depth 65 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
41	Section 9 (40 - 45 feet, 5.1 feet sample recovered)			10YR 4/3 brown	fine sand	well	horizontal bedding (>1cm)		moderate	
42										
43				10YR 4/3 brown	silt	well	horizontal lamination (<1cm)	redox laminations	moderate	
44										
45										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 1000832 **Field ID** NMR-G7

County _____

Lat 43.943736 **Long** -89.778083

Describer Ana Genthe **Date** 5/9/19

Drill Method rotosonic

Notes _____

Site Name Stanford NMR-G7



WUWN _____

Elevation 981 ft **Method** 5-ft DEM

Project Central Sands Lakes Study

Total Depth 65 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
46	Section 10 (45 - 50 feet, 5.1 feet sample recovered)			10YR 7/3 very pale brown	medium sand	well				
47										
48				10YR 7/3 very pale brown	medium sand	well		oxidation at 137cm		
49										
50										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 1000832 **Field ID** NMR-G7

County _____

Lat 43.943736 **Long** -89.778083

Describer Ana Genthe **Date** 5/9/19

Drill Method rotonomic

Notes _____

Site Name Stanford NMR-G7

WUWN _____

Elevation 981 ft **Method** 5-ft DEM

Project Central Sands Lakes Study

Total Depth 65 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
51	Section 11 (50 - 55 feet, 5 feet sample recovered)			10YR 7/3 very pale brown	medium sand	well				
52				10YR 7/3 very pale brown	medium sand	well				
53										
54										
55				10YR 7/3 very pale brown	medium sand	well				more variation in grain color

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 1000832 **Field ID** NMR-G7

Site Name Stanford NMR-G7

County

WUWN

Lat 43.943736 **Long** -89.778083

Elevation 981 ft **Method** 5-ft DEM

Describer Ana Genthe **Date** 5/9/19


Project Central Sands Lakes Study

Drill Method rotosonic

Total Depth 65 ft

Notes

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
56	Section 12 (55 - 60 feet, 7.1 feet sample recovered)									
57										
58										
59										
60										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 1000832 **Field ID** NMR-G7

County _____

Lat 43.943736 **Long** -89.778083

Describer Ana Genthe **Date** 5/9/19

Drill Method rotosonic

Notes _____

Site Name Stanford NMR-G7


WUWN _____

Elevation 981 ft **Method** 5-ft DEM

Project Central Sands Lakes Study

Total Depth 65 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
61	Section 13 (60 - 65 feet, 2.8 feet sample recovered)			10YR 7/3 very pale brown 10YR 6/4 light yellowish brown	medium sand medium sand	well well	angular lamination (<1cm)	slight redox laminations		gradient to more gray at bottom. Smells like lake muck.
				10YR 4/3 brown	fine sand	poor			weak	
62				10YR 7/3 very pale brown	medium sand	well				
				10YR 7/3 very pale brown	fine sand	well				
63										
64										
65										End of borehole NMR-G7.

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



BOREHOLE GEOPHYSICAL LOG

WGNHS ID70002367SITE NAMELL-101-RS

WUWN COUNTYWausharaDATE12/12/19LOGGED BYPMChase

LATITUDE44.204022LOCATION8th Dr 1500 ft. North of STH 73, Tn of Oasis

LONGITUDE-89.456614LOC METHODRTK GPSLOC CONF0.3m/1ft

ELEVATION1122.6WELL DEPTH260CASING DEPTH260

ELEV. METHODRTK GPSDEPTH TO WATER21CASING STICK UP4.9

Comments: Well Construction field represents well, casing, and water-level as measured on the day of logging. The stick-up of 4.9' was from deck of the drill rig. The gamma log was performed with casing to bottom of hole. Once logged, casing was removed as piezos 70002368 (VR377) and 70002369 (VR378) were constructed. The stick-up for the piezometers is closer to 2' above land surface datum of 1122.6'.

LOGS COLLECTED:

☒ Gamma

☐ Self Potential

☐ Fluid Conductivity

☐ Optical Borehole Imager

☐ Caliper

☐ Normal Resistivity

☐ Flow Meter- HeatPulse

☐ Acoustic Borehole Imager

☐ Single Point Resistivity

☐ Fluid Temperature

☐ Flow Meter- Spinner

☐ OTHER

(up is negative; down is positive)

Unless noted, (1) all depths are in feet; (2) well depth, casing depth, and depth to water are interpreted from geophysical log; and (3) datum is the top of casing. For more information or to obtain collected data not shown, please contact: data@wgnhs.wisc.edu

File Created on: 2/12/2020

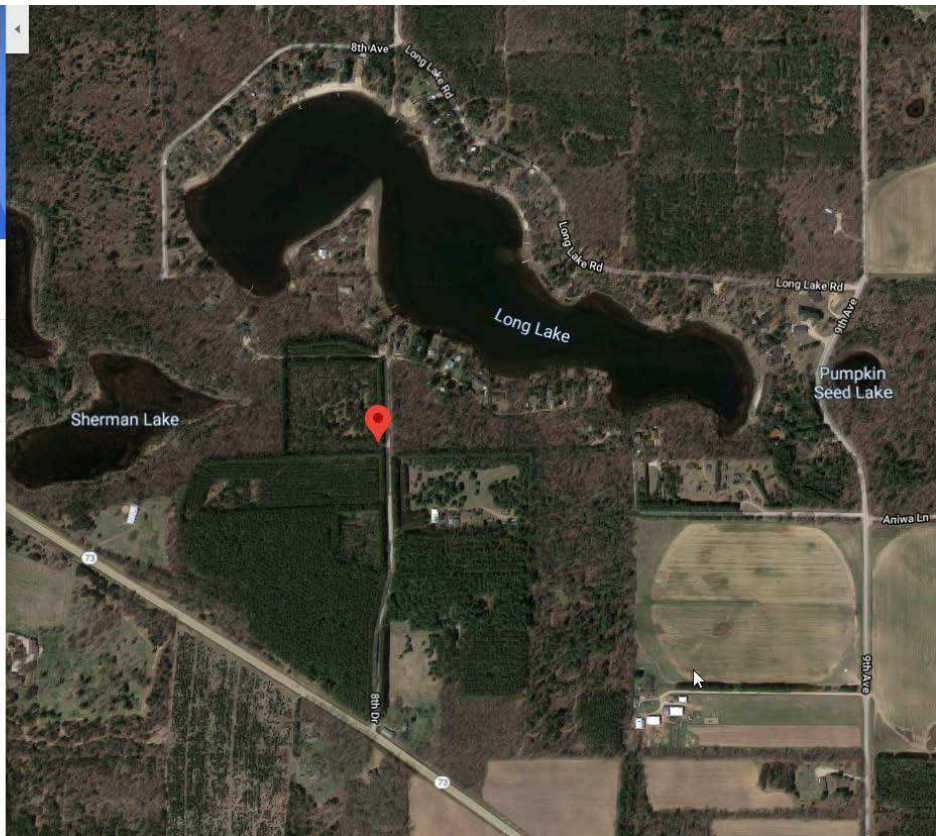
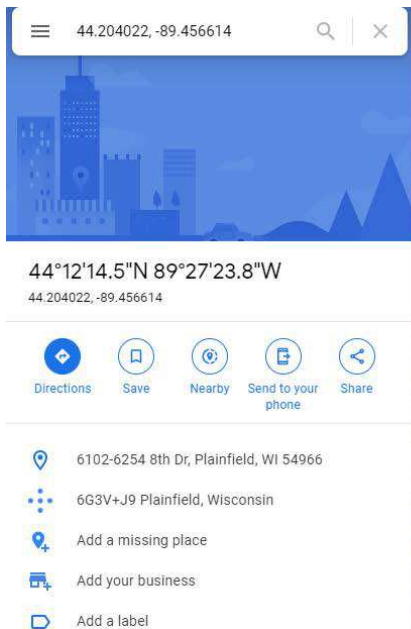
By: AMB



Long Lake Groundwater Monitoring Station

This monitoring station consists of a shallow monitoring well and two deeper piezometers. The station was installed as part of the Central Sands Lakes Study (CSLS) and is considered part of the Wisconsin Groundwater-Level Monitoring Network (WGLMN), which is jointly operated by the Wisconsin Dept. of Natural Resources (WDNR), U.S. Geological Survey (USGS) and Wisconsin Geological and Natural History Survey (WGNHS).

Location of Long Lake Monitoring Station



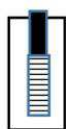
Sketch of rotosonic coreholes and monitoring wells*

LS-101-RSA (WID: **70002370**, WUWN: **VR379**) is a shallow water-table well w/open interval from ~25-40' BLS

Note: No core samples were collected for this well. See geologic descriptions and logs for well 70002367

** This sketch is only intended to be schematic, showing the borehole, piezometer nest, and neighboring water-table well in relation to one another.*

Please refer to the appropriate well construction form for details regarding well construction (e.g., well depth, well diameter, casing lengths, piezometer screen lengths).

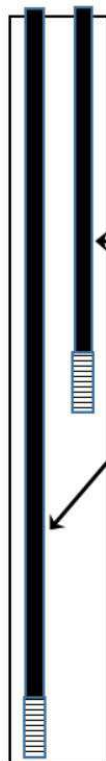


LL-101-RS (WID: **70002367**; WUWN: n/a) is a corehole only (NOT A WELL) w/soil boring log, geophysical log, and geologic log

LS-101-RSB (WID: **70002369**, WUWN: **VR378**) is a piezometer w/open interval from ~135-145' BLS

LS-101-RSC (WID: **70002368**, WUWN: **VR377**) is a piezometer w/open interval from ~245-255' BLS

Note: A separate WID was assigned to the corehole (70002367) as a placeholder for the associated geologic information collected (i.e., soil boring, GP log, geologic log).



Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☒ Geology

Page 1 of 1

Facility/Project Name CSLS / WI Groundwater-Level Monitoring Network			License/Permit/Monitoring Number WGNHS WID: 70002367		Boring Number LL-101-RS
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Roy Last Name: Buckenberger Firm: Cascade LP			Date Drilling Started 12 / 09 / 2019 m m d d y y y y	Date Drilling Completed 12 / 16 / 2019 m m d d y y y y	Drilling Method Rotosonic
WI Unique Well No. N/a	DNR Well ID No.	Well Name	Final Static Water Level 1105 Feet MSL	Surface Elevation 1122.6 Feet MSL	Borehole Diameter 8" to 145 ft. 6" to 255.4 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E NE 1/4 of SW 1/4 of Section 17, T 20 N, R 9E			Local Grid Location Lat 44° 12' 14.48" N Long 89° 02' 23.81" W Feet N Feet E Feet S Feet W		

Facility ID	County Waushara	County Code 70	Civil Town/City/ or Village Oasis
-------------	--------------------	-------------------	--------------------------------------

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			0-10	Topsoil w/ sand										
			10-165	Brown fine sand w/gravel										
			165-242	Sand and gravel										
			242-245	White sandstone										
			245-255	White and pink sandstone										
				END OF BORING 255.4 ft.										
				The following two piezometers were completed in this borehole:										
				LL-101-RSB (WID: 70002369; WUWN: VR378) - Completed to 146.5 ft below land surface - 8" diameter borehole										
				LL-101-RSC (WID: 70002368; WUWN: VR377) - Completed to 255.4 ft below land surface - 6" diameter borehole										

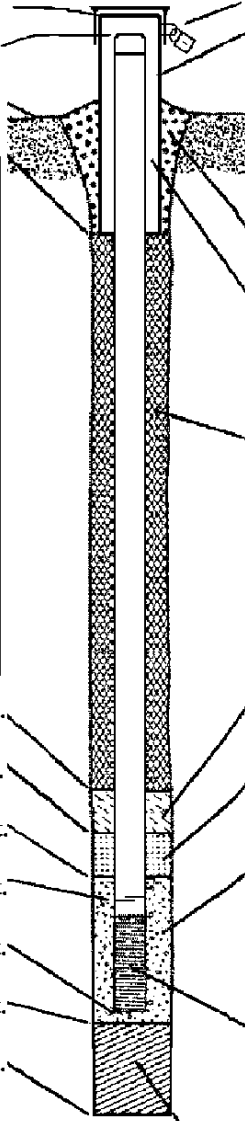
I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Roy Buckenberger	Firm Cascade LP
-------------------------------	--------------------

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☒ Geology

Facility/Project Name CSLS/WI Groundwater-Level Monitoring Network		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name LL-101-RSB	
Facility License, Permit or Monitoring No. WGNHS WID:70002369		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. 44° 12' 14.48" Long. 89° 27' 23.81" or		Wis. Unique Well No. VR378 DNR Well ID No. _____	
Facility ID _____		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed <u>12</u> / <u>16</u> / <u>2019</u> m m d d y y y y	
Type of Well Well Code <u>12</u> / <u>PZ</u>		Section Location of Waste/Source NE <u>1/4</u> of SW <u>1/4</u> of Sec. <u>17</u> , T. <u>20</u> N, R. <u>9</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Roy Buckenberger	
Distance from Waste/Source <u>NA</u> ft.		Enf. Stds. Apply <input type="checkbox"/>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Gov. Lot Number _____		_____		_____	

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input type="checkbox"/> 4 1 Rotosonic _____ Other <input checked="" type="checkbox"/></p> <p>15. Drilling fluid used: Water <input checked="" type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe _____</p> <p>17. Source of water (attach analysis, if required): City of Plainfield DPW</p> </div> <p>E. Bentonite seal, top _____ ft. MSL or <u>0.0</u> ft.</p> <p>F. Fine sand, top _____ ft. MSL or _____ ft.</p> <p>G. Filter pack, top _____ ft. MSL or <u>132</u> ft.</p> <p>H. Screen joint, top _____ ft. MSL or <u>136.5</u> ft.</p> <p>I. Well bottom _____ ft. MSL or <u>146.5</u> ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or <u>149</u> ft.</p> <p>K. Borehole, bottom _____ ft. MSL or <u>255.4</u> ft.</p> <p>L. Borehole, diameter <u>8</u> in.</p> <p>M. O.D. well casing <u>2.375</u> in.</p> <p>N. I.D. well casing <u>1.939</u> in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/> d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>Bumper posts</u></p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0 Concrete <input type="checkbox"/> 0 1 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: <u>#40 Sand</u> Bentonite <input type="checkbox"/> 3 0 Other <input checked="" type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>#40 Red Flint</u> b. Volume added _____ ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 2 4 Other <input type="checkbox"/></p> <p>10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/> b. Manufacturer <u>Johnson</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10</u> ft.</p> <p>11. Backfill material (below filter pack): None <input type="checkbox"/> 1 4 Sand and Bentonite, deeper well set <input checked="" type="checkbox"/></p>
---	---

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature **Peter M Chase** Firm **Wis. Geological & Natural History Survey**

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☒ Water Supply

Facility/Project Name Central Sands Lake Study / WGLMN	County Name Waushara	Well Name LL-101-RSB
Facility License, Permit or Monitoring Number WGNHS WID:70002369	County Code 70	Wis. Unique Well Number VR378
		DNR Well ID Number _____

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method
- surged with bailer and bailed ☐ 4 1
 - surged with bailer and pumped ☒ 6 1
 - surged with block and bailed ☐ 4 2
 - surged with block and pumped ☐ 6 2
 - surged with block, bailed and pumped ☐ 7 0
 - compressed air ☐ 2 0
 - bailed only ☐ 1 0
 - pumped only ☐ 5 1
 - pumped slowly ☐ 5 0
 - Other ☐ _____

3. Time spent developing well _____ 210 min.

4. Depth of well (from top of well casing) _____ 148.49 ft.

5. Inside diameter of well _____ 1.94 in.

6. Volume of water in filter pack and well casing _____ 20.0 gal.

7. Volume of water removed from well _____ 532 gal.

8. Volume of water added (if any) _____ 0 gal.

9. Source of water added NA

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

17. Additional comments on development:

11. Depth to Water (from top of well casing)

	Before Development	After Development
a. _____ ft.	22.47	21.91
Date	b. 12 / 20 / 2019	12 / 20 / 2019
	m m d d y y y y	m m d d y y y y
Time	c. 10 : 20 <input checked="" type="checkbox"/> a.m.	13 : 20 <input checked="" type="checkbox"/> p.m.
	<input type="checkbox"/> p.m.	<input type="checkbox"/> a.m.

12. Sediment in well bottom _____ 4 inches _____ 0 inches

13. Water clarity

Clear	<input type="checkbox"/> 1 0	Clear	<input checked="" type="checkbox"/> 2 0
Turbid	<input checked="" type="checkbox"/> 1 5	Turbid	<input type="checkbox"/> 2 5
(Describe)		(Describe)	
Brown	_____		_____
Opaque	_____		_____
	_____		_____
	_____		_____

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended _____ mg/l _____ mg/l
solids

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Peter Last Name: Chase

Firm: Wis Geological and Natural History Survey

Name and Address of Facility Contact /Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

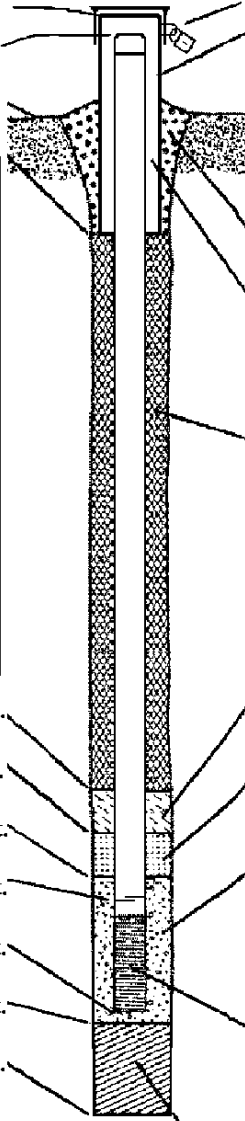
Signature: PM Chase

Print Name: Peter M. Chase

Firm: WGNHS

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☒ Geology

Facility/Project Name CSLS / WI Groundwater-Level Monitoring Network		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name LL-101-RSC	
Facility License, Permit or Monitoring No. WGNHS WID:70002368		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. 44° 12' 14.48" Long. 89° 27' 23.81" or		Wis. Unique Well No. <u>VR377</u> DNR Well ID No. <u> </u>	
Facility ID _____		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed <u>12</u> / <u>13</u> / <u>2019</u> m m d d y y y y	
Type of Well Well Code <u>12</u> / <u>PZ</u>		Section Location of Waste/Source NE <u>1/4</u> of SW <u>1/4</u> of Sec. <u>17</u> , T. <u>20</u> N, R. <u>9</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <u>Roy Buckenberger</u>	
Distance from Waste/Source <u>NA</u> ft.		Enf. Stds. Apply <input type="checkbox"/>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Gov. Lot Number _____		_____		_____	

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation <u>1124.66</u> ft. MSL</p> <p>C. Land surface elevation <u>1122.6</u> ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input type="checkbox"/> 4 1 Rotosonic <input checked="" type="checkbox"/> Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input checked="" type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe _____</p> <p>17. Source of water (attach analysis, if required): City of Plainfield DPW</p> </div> <p>E. Bentonite seal, top _____ ft. MSL or <u>149</u> ft.</p> <p>F. Fine sand, top _____ ft. MSL or _____ ft.</p> <p>G. Filter pack, top _____ ft. MSL or <u>242</u> ft.</p> <p>H. Screen joint, top _____ ft. MSL or <u>245.4</u> ft.</p> <p>I. Well bottom _____ ft. MSL or <u>255.4</u> ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or <u>255.4</u> ft.</p> <p>K. Borehole, bottom _____ ft. MSL or <u>255.4</u> ft.</p> <p>L. Borehole, diameter <u>6</u> in.</p> <p>M. O.D. well casing <u>2.375</u> in.</p> <p>N. I.D. well casing <u>1.939</u> in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/></p> <p>d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>Bumper posts</u></p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0 Concrete <input type="checkbox"/> 0 1 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: <u>#40 Sand</u> Bentonite <input type="checkbox"/> 3 0 Other <input checked="" type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>#40 Red Flint</u> b. Volume added _____ ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 2 4 Other <input type="checkbox"/></p> <p>10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/></p> <p>b. Manufacturer <u>Johnson</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/></p>
---	---

Borehole diameters are as follows:
- 8": land surface to 145' depth
- 6": 145' to 255.4' depth

Piezometer VR377 (70002368) installed in 6" diameter portion of borehole.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Peter M Chase

Firm Wis. Geological & Natural History Survey

Route to: Watershed/Wastewater ☐ Waste Management ☐

Remediation/Redevelopment ☐ Other ☒ Water Supply

Facility/Project Name Central Sands Lake Study / WGLMN	County Name Waushara	Well Name LL-101-RSC
Facility License, Permit or Monitoring Number WGNHS WID:70002368	County Code 70	Wis. Unique Well Number VR377
		DNR Well ID Number _____

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- surged with bailer and bailed ☐ 4 1
 surged with bailer and pumped ☒ 6 1
 surged with block and bailed ☐ 4 2
 surged with block and pumped ☐ 6 2
 surged with block, bailed and pumped ☐ 7 0
 compressed air ☐ 2 0
 bailed only ☐ 1 0
 pumped only ☐ 5 1
 pumped slowly ☐ 5 0
 Other ☐ _____

3. Time spent developing well 200 min.

4. Depth of well (from top of well casing) 257.46 ft.

5. Inside diameter of well 1.94 in.

6. Volume of water in filter pack and well casing 38.0 gal.

7. Volume of water removed from well 750 gal.

8. Volume of water added (if any) 0 gal.

9. Source of water added NA

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

17. Additional comments on development:

DTW 23.81 after 150 minutes @ 5gpm

11. Depth to Water (from top of well casing)

	Before Development	After Development
a. _____ ft.	<u>22.13</u> ft.	<u>22.09</u> ft.
Date	b. <u>12</u> / <u>20</u> / <u>2019</u>	<u>12</u> / <u>20</u> / <u>2019</u>
	m m d d y y y y	m m d d y y y y
Time	c. <u>12:20</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>13:45</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.

12. Sediment in well bottom 4 inches 0 inches

13. Water clarity

Clear <input type="checkbox"/> 1 0	Clear <input checked="" type="checkbox"/> 2 0
Turbid <input checked="" type="checkbox"/> 1 5	Turbid <input type="checkbox"/> 2 5
(Describe)	(Describe)
<u>Red Brown</u>	_____
<u>Slight turbidity</u>	_____
_____	_____
_____	_____
_____	_____

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Peter Last Name: Chase

Firm: Wis Geological and Natural History Survey

Name and Address of Facility Contact /Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: P M C

Print Name: Peter M. Chase

Firm: WGNHS

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☒ Geology

Page 1 of 1

Facility/Project Name CSLS / WI Groundwater-Level Monitoring Network			License/Permit/Monitoring Number WGNHS WID: 70002370		Boring Number LL-101-RSA	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Roy Last Name: Buckenberger Firm: Cascade LP			Date Drilling Started 12 / 16 / 2019 m m d d y y y y	Date Drilling Completed 12 / 16 / 2019 m m d d y y y y	Drilling Method Rotosonic	
WI Unique Well No. VR379	DNR Well ID No.	Well Name	Final Static Water Level 1105 Feet MSL	Surface Elevation 1122.6 Feet MSL	Borehole Diameter 6 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E NE 1/4 of SW 1/4 of Section 17, T 20 N, R 9E			Lat 44° 12' 14.48" Long 89° 27' 23.88"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Waushara	County Code 70	Civil Town/City/ or Village Oasis		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				Blind Drilled to approx. 40 ft below land surface. See boring log LL-101-RS (WID: 70002367; WUWN: VR379) for lithology. Set well VR379 @ approx. 40 ft below land surface. See well construction form for detail.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Roy Buckenberger	Firm Cascade LP
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Facility/Project Name CSLS / WI Groundwater-Level Monitoring Network		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name LL-101-RSA	
Facility License, Permit or Monitoring No. WGNHS WID:70002370		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. 44 ° 12 ' 14.48 " Long. 89 ° 27 ' 23.88 " or		Wis. Unique Well No. <u>VR379</u> DNR Well ID No. _____	
Facility ID _____		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed <u>12</u> / <u>16</u> / <u>2019</u> m m d d y y y y	
Type of Well Well Code <u>11</u> / MW		Section Location of Waste/Source NE <u>1/4</u> of SW <u>1/4</u> of Sec. <u>17</u> , T. <u>20</u> N, R. <u>9</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <u>Roy Buckenberger</u>	
Distance from Waste/Source <u>NA</u> ft. Inf. Stds. Apply <input type="checkbox"/>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	
A. Protective pipe, top elevation _____ ft. MSL				1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
B. Well casing, top elevation <u>1124.75</u> ft. MSL				2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/>	
C. Land surface elevation <u>1122.6</u> ft. MSL				d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>Bumper posts</u>	
D. Surface seal, bottom _____ ft. MSL or _____ ft.				3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0 Concrete <input type="checkbox"/> 0 1 Other <input type="checkbox"/>	
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		4. Material between well casing and protective pipe: <u>#40 Sand</u> Bentonite <input type="checkbox"/> 3 0 Other <input checked="" type="checkbox"/>		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8	
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/>	
14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input type="checkbox"/> 4 1 <u>Rotosonic</u> Other <input checked="" type="checkbox"/>				7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³	
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input type="checkbox"/> 9 9				8. Filter pack material: Manufacturer, product name & mesh size a. <u>#40 Red Flint</u> b. Volume added _____ ft ³	
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/>		10. Screen material: <u>PVC</u> a. Screen type: _____ Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/>	
17. Source of water (attach analysis, if required): <u>City of Plainfield DPW</u>		b. Manufacturer <u>Johnson</u> c. Slot size: _____ 0. <u>010</u> in. d. Slotted length: _____ <u>15</u> ft.		11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/>	
E. Bentonite seal, top _____ ft. MSL or <u>0.0</u> ft.		F. Fine sand, top _____ ft. MSL or <u>22.0</u> ft.		G. Filter pack, top _____ ft. MSL or <u>22.0</u> ft.	
H. Screen joint, top _____ ft. MSL or <u>25.5</u> ft.		I. Well bottom _____ ft. MSL or <u>40.5</u> ft.		J. Filter pack, bottom _____ ft. MSL or <u>40.5</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>40.5</u> ft.		L. Borehole, diameter <u>6</u> in.		M. O.D. well casing <u>2.375</u> in.	
N. I.D. well casing <u>2.067</u> in.					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Peter M Chase

Firm Wis. Geological & Natural History Survey

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☒ Water Supply

Facility/Project Name Central Sands Lake Study / WGLMN	County Name Waushara	Well Name LL-101-RSA
Facility License, Permit or Monitoring Number WGNHS WID:70002370	County Code 70	Wis. Unique Well Number VR379
		DNR Well ID Number _____

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- surged with bailer and bailed ☐ 4 1
surged with bailer and pumped ☒ 6 1
surged with block and bailed ☐ 4 2
surged with block and pumped ☐ 6 2
surged with block, bailed and pumped ☐ 7 0
compressed air ☐ 2 0
bailed only ☐ 1 0
pumped only ☐ 5 1
pumped slowly ☐ 5 0
Other ☐ _____

3. Time spent developing well _____ 120 min.

4. Depth of well (from top of well casing) _____ 42.65 ft.

5. Inside diameter of well _____ 2.07 in.

6. Volume of water in filter pack and well casing _____ 7.0 gal.

7. Volume of water removed from well _____ 400 gal.

8. Volume of water added (if any) _____ 0 gal.

9. Source of water added NA

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

17. Additional comments on development:

DTW 23.6 after 100 mins @ 5gpm

11. Depth to Water
(from top of well casing)
a. Before Development After Development
_____ 21.99 ft. _____ 22.00 ft.
Date b. 12 / 20 / 2019 12 / 20 / 2019
m m d d y y y y m m d d y y y y
Time c. 10 : 00 ☒ a.m. 12 : 20 ☐ a.m.
_____ ☐ p.m. _____ ☒ p.m.

12. Sediment in well bottom _____ 4 inches _____ 0 inches

13. Water clarity Clear ☐ 1 0 Clear ☒ 2 0
Turbid ☒ 1 5 Turbid ☐ 2 5
(Describe) (Describe)
Brown _____
Opaque _____

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended _____ mg/l _____ mg/l
solids

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Peter Last Name: Chase
Firm: Wis Geological and Natural History Survey

Name and Address of Facility Contact /Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: P. M. Chase

Print Name: Peter M. Chase

Firm: WGNHS



BOREHOLE GEOPHYSICAL LOG

WGNHS ID70002314SITE NAMEWGNHS Central Sands PFD24

WUWN COUNTYWausharaDATE9/21/2018LOGGED BYPMChase

LATITUDE44.18467LOCATIONE side of 11th Dr. 1125 ft. south of STH 73 Tn of Oasis

LONGITUDE-89.394785LOC METHODLOC CONF

ELEVATION1131WELL DEPTH422CASING DEPTH419

ELEV. METHOD10mDEM2017DEPTH TO WATERCASING STICK UP4.9

Comments:

LOGS COLLECTED:

☒ Gamma

☐ Self Potential

☐ Fluid Conductivity

☐ Optical Borehole Imager

☐ Caliper

☐ Normal Resistivity

☐ Flow Meter- HeatPulse

☐ Acoustic Borehole Imager

☐ Single Point Resistivity

☐ Fluid Temperature

☐ Flow Meter- Spinner

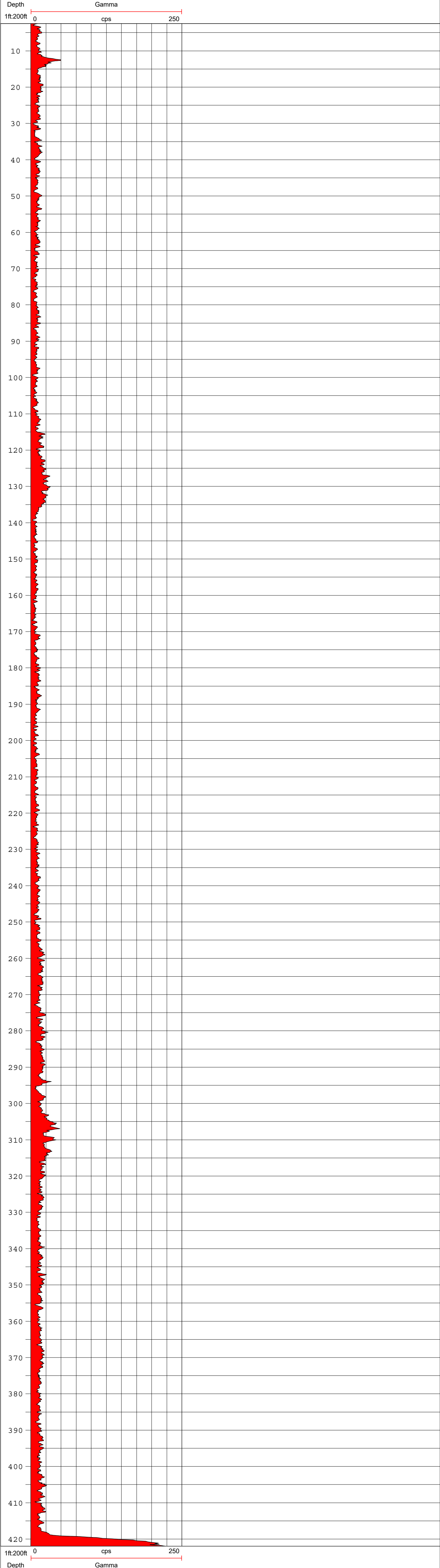
☐ OTHER

(up is negative; down is positive)

Unless noted, (1) all depths are in feet; (2) well depth, casing depth, and depth to water are interpreted from geophysical log; and (3) datum is the top of casing. For more information or to obtain collected data not shown, please contact: data@wgnhs.wisc.edu

File Created on:12/26/2018

By:AMB





BOREHOLE GEOPHYSICAL LOG

WGNHS ID70002332SITE NAMEWGNHS Central Sands PFL101

WUWNVQ877COUNTYWausharaDATE5/14/19LOGGED BYPMChase

LATITUDE44.204658LOCATION925' NW of Aniwa Rd @ 8th Ave, Town of Oasis

LONGITUDE-89.468996LOC METHODImageryLOC CONF

ELEVATION1121WELL DEPTH105CASING DEPTH105

ELEV. METHOD10mDEM2017DEPTH TO WATER21CASING STICK UP3.6

Comments: Well drilled by Illinois Geological Survey using mud-rotary methods, logged through casing. 4.5" hole, 2" well screened 90-100ft.

LOGS COLLECTED:

☒ Gamma

☐ Self Potential

☐ Fluid Conductivity

☐ Optical Borehole Imager

☐ Caliper

☐ Normal Resistivity

☐ Flow Meter- HeatPulse

☐ Acoustic Borehole Imager

☐ Single Point Resistivity

☐ Fluid Temperature

☐ Flow Meter- Spinner

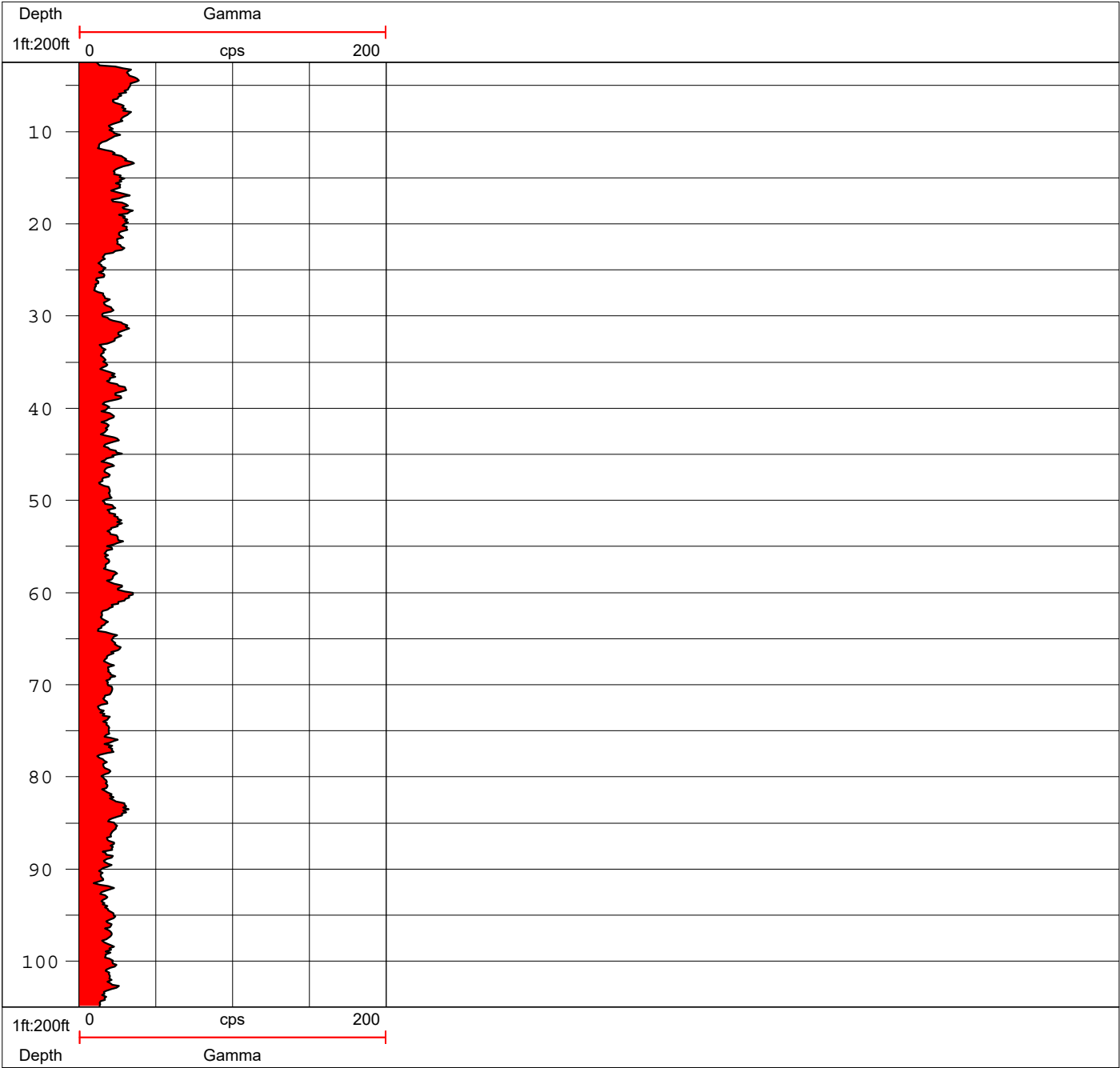
☐ OTHER

(up is negative; down is positive)

Unless noted, (1) all depths are in feet; (2) well depth, casing depth, and depth to water are interpreted from geophysical log; and (3) datum is the top of casing. For more information or to obtain collected data not shown, please contact: data@wgnhs.wisc.edu

File Created on:8/6/2019

By:AMB



Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ project file

Page 1 of 2

Facility/Project Name Central Sands Lakes Study			License/Permit/Monitoring Number n/a		Boring Number PFL 100		
Boring Drilled By: Name of crew chief (first, last) and Firm Rich Padilla IL State Geological Survey			Date Drilling Started 5/8/2019		Date Drilling Completed 5/10/2019		
WI Unique Well No. VQ878		DNR Well ID No.		Common Well Name 70002331		Final Static Water Level Feet MSL	
				Surface Elevation Feet MSL		Borehole Diameter 4.5 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Lat ° ' " Long ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
SW 1/4 of NE 1/4 of Section 18, T 20 N, R 9 E							

Facility ID		County Waushara		County Code 70		Civil Town/City/ or Village Oasis	
-------------	--	---------------------------	--	--------------------------	--	---	--

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			4	SILTY SAND (SM) 80% sand 20% fines, Lt brown, dry, oxidized, glacial-fluvial	SM										
			8												
			12												
			16	WELL GRADED GRAVEL w/ SAND (GW) wet, galacial-fluvial	GW										
			20	WELL GRADED SAND W/ GRAVEL (SW) 75% sand 25% gravel, trace fines, lt grey 10YR7/2	SW										
			24												
			28												
			32												
			36	SILTY SAND (SM) 75% sand 20% fines, trace gravel, glacial-fluvial											
			40	WELL GRADED SAND (SW) fine sand, trace gravel, lt grey 10YR7/2											
			44												
			48												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Wisconsin Geological Survey	Tel: Fax:
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

FOR ACADEMIC USE ONLY

Boring Number		PFL 100		Use only as an attachment to Form 4400-122.						Page 2 of 2				
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			52	WELL GRADED SAND (SW) fine sand, trace gravel, lt grey 10YR7/2 <i>(continued)</i>										
			56											
			60											
			64											
			68	SILTY SAND (SM) 75% v. fine sand 20% fines, trace gravel, glacial-fluvial										
			72											
			76	WELL GRADED SAND (SW) 95% f-c sand, trace gravel, trace fines, lt grey to pink 7.5YR7/3										
			80											
			84											
			88											
			92	WELL GRADED SAND W/SILT (SW-SM) 85% f sand 10% fines, trace gravel, lt grey 7.5YR7/1										
			96	WELL GRADED SAND (SW) 95% f-c sand, trace gravel, trace fines, lt grey to pink 7.5YR7/3										
			100	Bottom of boring @ 100.5 feet										

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ project file

Page 1 of 2

Facility/Project Name Central Sands Lakes Study		License/Permit/Monitoring Number n/a		Boring Number PFL 101	
Boring Drilled By: Name of crew chief (first, last) and Firm Rich Padilla IL State Geological Survey		Date Drilling Started 5/13/2019		Date Drilling Completed 5/15/2019	
WI Unique Well No. VQ877		DNR Well ID No.		Common Well Name 70002332	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 4.5 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N		Lat ° ' " Long ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of SE 1/4 of Section 20, T 20 N, R 9 E					

Facility ID	County Waushara	County Code 70	Civil Town/City/ or Village Oasis
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			4	SILTY SAND (SM) 75% sand 20% fines 5% gravel, brown 7.5YR4/2, dry, oxidized, glacial-fluvial	SM									
			8	WELL GRADED SAND W/SILT (SW-SM)70%f-m sand 20% gravel 10% fines, lt grey 7.5YR7/1 becomes more gravelly	SW-SM									
			12											
			16	WELL GRADED GRAVEL w/ SAND (GW) cobbles and boulders present, wet, hard drilling, glacial-fluvial										
			20											
			24											
			28											
			32		GW									
			36											
			40											
			44											
			48	WELL GRADED SAND W/ GRAVEL (SW) 85% f-c sand 15% gravel	SE									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Wisconsin Geological Survey	Tel: Fax:
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

FOR ACADEMIC USE ONLY

Boring Number		PFL 101		Use only as an attachment to Form 4400-122.										Page 2 of 2	
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			52	WELL GRADED SAND W/ GRAVEL (SW) 85% f-c sand 15% gravel <i>(continued)</i>	SE										
			56	WELL GRADED GRAVEL(GW) 95% f-c gravel 5% sand, wet, glacial-fluvial											
			60												
			64												
			68		GW										
			72												
			76												
			80	WELL GRADED SAND W/SILT (SW-SM)80%f-c sand 10% gravel, 10%fines											
			84		SW-SM										
			88												
			92	WELL GRADED SAND (SW)95% f-c sand, trace gravel,trace fines, lt grey 7.5YR7/1											
			96		SW										
			100												
				Bottom of boring @ 102 feet											

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name <u>Central Sands Lakes Study</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>PFL 100 (Site 10)</u>
Facility License, Permit or Monitoring No. <u>WGNHS</u>	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. <u>44.20747</u> Long. <u>-89.46924</u> or <u>VQ 878</u>	Wis. Unique Well No. <u>VQ 878</u> DNR Well ID No. <u>---</u>
Facility ID <u>W10-70002331</u>	St. Plane <u>---</u> ft. N. <u>---</u> ft. E. S/C/N <u>---</u>	Date Well Installed <u>05/10/2019</u> m m d d y y y y
Type of Well Well Code <u>12 / PZ</u>	Section Location of Waste/Source 1/4 of <u>---</u> 1/4 of Sec. <u>---</u> T. <u>---</u> N. R. <u>---</u> <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>R. PADILLA</u> <u>IL GEOLOGICAL SURVEY</u>
Distance from Waste/ Source <u>---</u> ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source: u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
	Gov. Lot Number <u>---</u>	

A. Protective pipe, top elevation <u>1116.87</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>1116.96</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>5.5</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>1114.47</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: <u>---</u>
D. Surface seal, bottom <u>1112.47</u> ft. MSL or <u>2.0</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/> <u>#40 SAND</u>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. <u>---</u> Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. <u>11.8</u> Lbs/gal mud weight... Bentonite slurry <input checked="" type="checkbox"/> 31 d. <u>---</u> % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. <u>7</u> Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. <u>---</u> Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>#80 Red Flint</u> b. Volume added <u>25</u> # <u>ft³</u>
16. Drilling additives used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Describe <u>EZ Mud</u>	8. Filter pack material: Manufacturer, product name & mesh size a. <u>#40 red flint</u> b. Volume added <u>1</u> # <u>ft³</u>
17. Source of water (attach analysis, if required): <u>Plainfield, WI DPW</u>	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top <u>1030.47</u> ft. MSL or <u>84.0</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top <u>1027.97</u> ft. MSL or <u>86.5</u> ft.	b. Manufacturer <u>BAKER MONOFLEX</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>100</u> ft.
G. Filter pack, top <u>1027.47</u> ft. MSL or <u>87.0</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top <u>1024.07</u> ft. MSL or <u>90.4</u> ft.	
I. Well bottom <u>1014.07</u> ft. MSL or <u>100.4</u> ft.	
J. Filter pack, bottom <u>1013.97</u> ft. MSL or <u>100.5</u> ft.	
K. Borehole, bottom <u>1013.97</u> ft. MSL or <u>100.5</u> ft.	
L. Borehole, diameter <u>4.5</u> in.	
M. O.D. well casing <u>2.4</u> in.	
N. I.D. well casing <u>2.0</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature R. M. Ca Firm WGNHS

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name <u>Central Sands Lakes Study</u>	County Name <u>WAUSHARA</u>	Well Name <u>PFL 100 (Site ID)</u>
Facility License, Permit or Monitoring Number	County Code <u>70</u>	Wis. Unique Well Number <u>VQ878</u>
		DNR Well ID Number <u>---</u>

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- surged with bailer and bailed ☐ 41
 surged with bailer and pumped ☒ 61
 surged with block and bailed ☐ 42
 surged with block and pumped ☐ 62
 surged with block, bailed and pumped ☐ 70
 compressed air ☐ 20
 bailed only ☐ 10
 pumped only ☐ 51
 pumped slowly ☐ 50
 Other ☐ ---

3. Time spent developing well 120 min.

4. Depth of well (from top of well casing) 103.6 ft.

5. Inside diameter of well 2.05 in.

6. Volume of water in filter pack and well casing 15 gal.

7. Volume of water removed from well 275 gal.

8. Volume of water added (if any) 0 gal.

9. Source of water added NA

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>15.05</u> ft.	<u>15.06</u> ft.
Date	b. <u>05/23/2019</u> m m d d y y y y	<u>05/23/2019</u> m m d d y y y y
Time	c. <u>11:30</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>1:20</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0</u> inches	<u>0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>brown</u> <u>slight</u>	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids --- mg/l --- mg/l

15. COD --- mg/l --- mg/l

16. Well developed by: Name (first, last) and Firm

First Name: PETER Last Name: CHASE

Firm: WI GEOLOGICAL SURVEY

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Pete Last Name: chase

Facility/Firm: WGNHS

Street: ---

City/State/Zip: ---

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: RMA

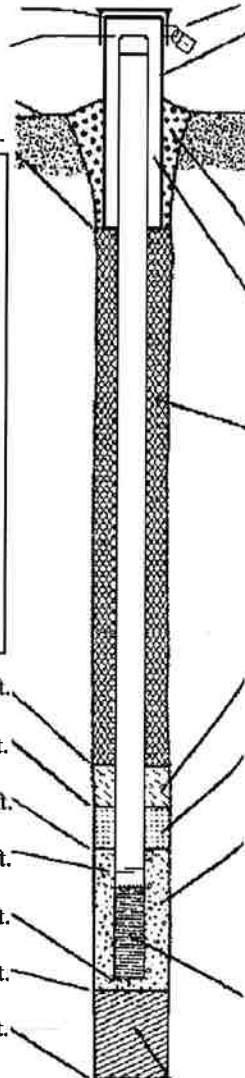
Print Name: Peter M Chase

Firm: WGNHS

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name <u>Central Sands Lakes Study</u>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name <u>PFL 101 (Site ID)</u>	
Facility License, Permit or Monitoring No. <u>WGNHS</u>		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location Lat. <u>44.20469</u> Long. <u>-89.46904</u> or		Wis. Unique Well No. <u>VQ877</u> DNR Well ID No. _____	
Facility ID <u>WID=70002332</u>		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed <u>05/14/2019</u> m m d d y y y y	
Type of Well Well Code <u>12 / PZ</u>		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <u>R. PADILLA</u> <u>IL GEOLOGICAL SURVEY</u>	
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	

<p>A. Protective pipe, top elevation <u>1122.77</u> ft. MSL</p> <p>B. Well casing, top elevation <u>1122.71</u> ft. MSL</p> <p>C. Land surface elevation <u>1120.01</u> ft. MSL</p> <p>D. Surface seal, bottom <u>1118.01</u> ft. MSL or <u>2.0</u> ft.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99</p> <p>16. Drilling additives used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Describe <u>EZ Mud</u></p> <p>17. Source of water (attach analysis, if required): <u>PLAINFIELD DPW</u></p> </div> <p>E. Bentonite seal, top <u>1037.01</u> ft. MSL or <u>83.0</u> ft.</p> <p>F. Fine sand, top <u>1033.61</u> ft. MSL or <u>86.4</u> ft.</p> <p>G. Filter pack, top <u>1032.51</u> ft. MSL or <u>87.5</u> ft.</p> <p>H. Screen joint, top <u>1029.91</u> ft. MSL or <u>90.1</u> ft.</p> <p>I. Well bottom <u>1019.91</u> ft. MSL or <u>100.1</u> ft.</p> <p>J. Filter pack, bottom <u>1019.51</u> ft. MSL or <u>100.5</u> ft.</p> <p>K. Borehole, bottom <u>1019.51</u> ft. MSL or <u>100.5</u> ft.</p> <p>L. Borehole, diameter <u>4.5</u> in.</p> <p>M. O.D. well casing <u>2.4</u> in.</p> <p>N. I.D. well casing <u>2.0</u> in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>5.5</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: <u>#40 SAND</u> Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. <u>11.7</u> Lbs/gal mud weight ... Bentonite slurry <input checked="" type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. <u>7</u> Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>Red Flint #80</u> b. Volume added <u>25#</u> <u>ft³</u></p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>Red Flint #40</u> b. Volume added <u>1</u> ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> b. Manufacturer <u>CAMPBELL MONOFLEX</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>100</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature R. M. Ch Firm WGNHS

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name <u>Central Sands Lakes Study</u>	County Name <u>WAUSHARA</u>	Well Name <u>PFL 101 (Site 10)</u>
Facility License, Permit or Monitoring Number	County Code <u>70</u>	Wis. Unique Well Number <u>VQ877</u>
		DNR Well ID Number _____

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- surged with bailer and bailed ☐ 41
 surged with bailer and pumped ☒ 61
 surged with block and bailed ☐ 42
 surged with block and pumped ☐ 62
 surged with block, bailed and pumped ☐ 70
 compressed air ☐ 20
 bailed only ☐ 10
 pumped only ☐ 51
 pumped slowly ☐ 50
 Other ☐ _____

3. Time spent developing well 120 min.

4. Depth of well (from top of well casing) 103.1 ft.

5. Inside diameter of well 2.05 in.

6. Volume of water in filter pack and well casing 15 gal.

7. Volume of water removed from well 300 gal.

8. Volume of water added (if any) 0 gal.

9. Source of water added NA

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>20.90</u> ft.	<u>20.92</u> ft.
Date	b. <u>05/23/2019</u> m m d d y y y y	<u>05/23/2019</u> m m d d y y y y
Time	c. <u>01:35</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>4:10</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0.5</u> inches	<u>0.5</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>brown</u> <u>slight</u>	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) _____

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: PETER Last Name: CHASE

Firm: W. GEOLOGICAL SURVEY

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Pete Last Name: chase

Facility/Firm: WGNHS

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Peter M Chase

Print Name: Peter M Chase

Firm: WGNHS



SEDIMENT DESCRIPTION

WGNHS ID 1000832 **Field ID** NMR-G7

County _____

Lat 43.943736 **Long** -89.778083

Describer Ana Genthe **Date** 5/9/19

Drill Method rotonsonic

Notes _____

Site Name Stanford NMR-G7


WUWN _____

Elevation 981 ft **Method** 5-ft DEM

Project Central Sands Lakes Study

Total Depth 65 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
1	Section 1 (0 - 5 feet, 5.1 feet sample recovered)				n/a, no recovery					no recovery
2										
3				7.5YR 4/3 brown	n/a, Top soil					Top soil
4				7.5YR 5/8 strong brown	medium sand	well		oxidation 135-154cm		
5										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 1000832 **Field ID** NMR-G7

County _____

Lat 43.943736 **Long** -89.778083

Describer Ana Genthe **Date** 5/9/19

Drill Method rotononic

Notes _____

Site Name Stanford NMR-G7

WUWN _____

Elevation 981 ft **Method** 5-ft DEM

Project Central Sands Lakes Study

Total Depth 65 ft

For more information, please contact us at data@wgnhs.wisc.edu.

Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
6	Section 2 (5 - 10 feet, 5.1 feet sample recovered)			7.5YR 7/4 pink	medium sand	well	horizontal lamination (<1cm)			
7										
8										
9				7.5YR 5/8 strong brown	medium sand	well	horizontal bedding (>1cm)		weak	
				7.5YR 7/4 pink	medium sand	well		oxidation		
10				7.5YR 5/8 strong brown	fine sand	well		oxidation		

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



SEDIMENT DESCRIPTION

WGNHS ID 1000832 **Field ID** NMR-G7

Site Name Stanford NMR-G7

County

WUWN

Lat 43.943736 **Long** -89.778083

Elevation 981 ft **Method** 5-ft DEM

Describer Ana Genthe **Date** 5/9/19


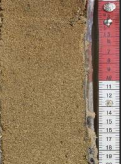
Project Central Sands Lakes Study

Drill Method rotonsonic

Total Depth 65 ft

Notes

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
11	Section 3 (10 - 15 feet, 5.1 feet sample recovered)			10YR 5/6 yellowish brown	medium sand	well				
12										
13										
14										
15				10YR 5/6 yellowish brown	medium sand	well				

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
16	Section 4 (15 - 20 feet, 5.1 feet sample recovered)			10YR 5/6 yellowish brown	medium sand	well				
17										
18				10YR 5/6 yellowish brown	medium sand	well				
19										
20										

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Drill Method rotonsonic

Total Depth 65 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
21	Section 5 (20 - 25 feet, 5.1 feet sample recovered)			10YR 6/4 light yellowish brown	medium sand	moderate				
22										
23				10YR 6/4 light yellowish brown	medium sand	well				
24										
25										

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Notes _____

Site Name Stanford NMR-G7


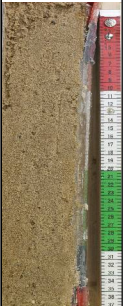


WUWN _____

Elevation 981 ft **Method** 5-ft DEM

Project Central Sands Lakes Study

Total Depth 65 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
26	Section 6 (25 - 30 feet, 4.9 feet sample recovered)			10YR 6/4 light yellowish brown	medium sand	moderate				
27				10YR 6/4 light yellowish brown	medium sand	moderate				
28				10YR 6/4 light yellowish brown	medium sand	moderate				
29				10YR 6/4 light yellowish brown	fine sand	well	horizontal bedding (>1cm)			
30										

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Site Name Stanford NMR-G7


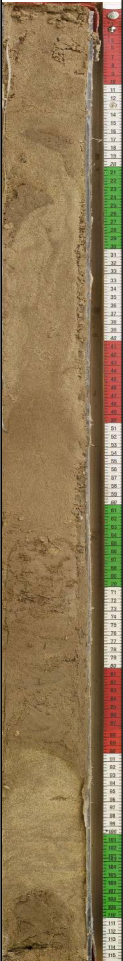
WUWN _____

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Project Central Sands Lakes Study

Total Depth 65 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
31	Section 7 (30 - 35 feet, 5.1 feet sample recovered)			10YR 6/4 light yellowish brown	medium sand	well				
32				10YR 6/4 light yellowish brown	medium sand	well	horizontal bedding (>1cm)			bedding distorted more at top. Color of siltbeds 10YR 5/4 yellowish brown and are seen at 55cm, 62cm, 104-127cm, and 145-150cm
33										
34										
35										

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Total Depth 65 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
	Section 8 (35 - 40 feet, 4.6 feet sample recovered)			10YR 6/4 light yellowish brown	medium sand	well	horizontal bedding (>1cm)			
36				10YR 4/2 dark grayish brown	silt	well			moderate	
37				10YR 4/2 dark grayish brown	silt	well			moderate	
38										
39				10YR 4/2 dark grayish brown	silt	well	horizontal lamination (<1cm)		moderate	
40										

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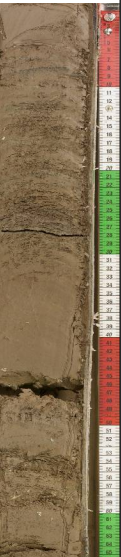
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Project Central Sands Lakes Study

Total Depth 65 ft

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/ Reduction	Reaction with HCl	Notes
41	Section 9 (40 - 45 feet, 5.1 feet sample recovered)			10YR 4/3 brown	fine sand	well	horizontal bedding (>1cm)		moderate	
42										
43				10YR 4/3 brown	silt	well	horizontal lamination (<1cm)	redox laminations	moderate	
44										
45										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
46	Section 10 (45 - 50 feet, 5.1 feet sample recovered)			10YR 7/3 very pale brown	medium sand	well				
47										
48				10YR 7/3 very pale brown	medium sand	well		oxidation at 137cm		
49										
50										

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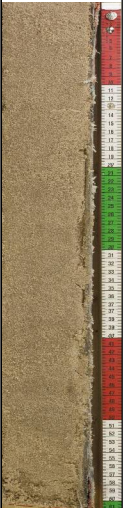

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
51	Section 11 (50 - 55 feet, 5 feet sample recovered)			10YR 7/3 very pale brown	medium sand	well				
52				10YR 7/3 very pale brown	medium sand	well				
53										
54				10YR 7/3 very pale brown	medium sand	well				more variation in grain color
55										

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.



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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
56	Section 12 (55 - 60 feet, 7.1 feet sample recovered)									
57										
58										
59										
60										

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Depth (ft)	Sample Section Info*	Photo (cm)	Grain-size analysis (ID)	Munsell Color	Sediment Texture	Sorting	Sediment Structure	Oxidation/Reduction	Reaction with HCl	Notes
61	Section 13 (60 - 65 feet, 2.8 feet sample recovered)			10YR 7/3 very pale brown 10YR 6/4 light yellowish brown	medium sand medium sand	well well	angular lamination (<1cm)	slight redox laminations		gradient to more gray at bottom. Smells like lake muck.
				10YR 4/3 brown	fine sand	poor			weak	
62				10YR 7/3 very pale brown	medium sand	well				
				10YR 7/3 very pale brown	fine sand	well				
63										
64										
65										End of borehole NMR-G7.

*Samples were collected over the entire sample run (typically 5 feet), and cannot be tied to a specific depth. Sample and photo should be considered representative of the entire run.