

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power			License/Permit/Monitoring Number SWLP		Boring Number B-102		
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota			Date Drilling Started 7/15/2020		Date Drilling Completed 7/15/2020		
WI Unique Well No.			DNR Well ID No.		Common Well Name		
Final Static Water Level Feet MSL			Surface Elevation Feet MSL		Borehole Diameter inches		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N			Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
1/4 of T N, R			1/4 of Section , T N, R		Long ° ' "		
Facility ID		County Douglas		County Code 16		Civil Town/City/ or Village Superior	

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	
60 48			1.5	Concrete, dry, loose, no odor				0						4-5' no recovery
			3.0	Brown 7.5YR5/3, silt, dry, hard, cohesive, v. stiff Redish brown 2.5YR5/4, silt, fine sand and small gravel, loose, dry, no odor	ML			0						
60 60			6.0	Redish brown 2.5YR5/4, silt, fine sand and small gravel, loose, dry, no odor	ML			3					6-8' sample collected	
			7.5	Fat clay, 2.5YR5/4, v. stiff, wet, highly plasticity, cohesive, no odor	CH			0	4.5					
60 36			10.5	Fat clay, 2.5YR5/4, v. stiff, wet, highly plasticity, cohesive, no odor	CH			0	2				13-15' no recovery	
			13.5					0	2					
60 36			15.0	Fat clay, 2.5YR5/4, v. stiff, wet, highly plasticity, cohesive, no odor	CH			0	3.5				18-20' no recovery	
			18.0					0	30					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number B-109	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/21/2020		Date Drilling Completed 7/21/2020	
Drilling Method Direct Push		WI Unique Well No.		DNR Well ID No.	
Common Well Name		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Borehole Diameter 2.0 inches		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of Section , T N, R		Lat _____ " _____ "		Long _____ " _____ "	
Facility ID		County Douglas		County Code 16	
		Civil Town/City/ or Village Superior			

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	
1	60 50		1.5	Topsoil, roots, friable, silty sand with gravel and clay, 10R2.5/1, low plasticity, moist cohesive										
			3.0	CL-ML 10R4/3, firm, medium-high plasticity, moist, cohesive, root traces visible, trace sand/gravel, some silt, no odor to faint odor	CL-ML			10.6	2.75					
2	60 57		4.5	CL-ML 10R4/3, firm, medium-high plasticity, moist, cohesive, trace sand/gravel, some silt, stronger odor, some sheen visible on outside of core	CL-ML			15	3					
			6.0					2.5						
3	60 20		7.5	10R4/3, firm, Fat Clay, moist, cohesive, trace sand/gravel, some silt, odor present, no sheen	CH			12.4	2					
			10.5					2						
4	60 50		12.0	Sandy Gravel, 7.5R2.5/1, odor, loose, wet, with some silt and clay				20.6						
			13.5					Fat Clay, Sandy Gravel, 7.5R2.5/1, odor, loose, wet, with some silt and clay	CH			2.5		
			15.0	Sandy Gravel, odor, loose, 7.5R2.5/1, some silt and clay				8.1						
			16.5					Fat Clay, Sandy Gravel, 7.5R2.5/1, odor, loose, wet, with some silt and clay	CH			0		
18.0														
19.5														

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number B-116	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/17/2020		Date Drilling Completed 7/17/2020	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N		Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of		1/4 of Section		T N, R	
Facility ID		County Douglas		County Code 16	
				Civil Town/City/ or Village Superior	

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		
MC1	60 42		0	Crushed rock and cement											
			1.5	Grey, Silt, dry, cohesive, massive, medium, stiff, no odor, fill				0							
			3.0	Brown Sand and Bentonite, fill, dry, no odor				0							
			4.5	No recovery.											
MC2	60 30		6.0	Brown, medium Sand, some bentonite pellets, wet	SP			0							Sampled 6-7'
			7.5	Black, Silt, wet, low-plasticity, cohesive, odor of decay and of chemicals	ML			1	2						
			9.0	2.5 5/4, Red-brown, Fat Clay, wet, high plasticity, cohesive, medium stiff, no odor	CH			0							
			10.5	No recovery.											
			12.0	2.5 5/4, Red-brown, Fat Clay, wet, high plasticity, cohesive, medium stiff, no odor	CH			0	2						
			13.5	Black, fine Sand, trace coarse sand, black wood chips, chemical odor	CH			4							
			15.0	2.5 5/4, Red-brown, Fat Clay, wet, high plasticity, cohesive, medium stiff, no odor				0	2						
			16.5	No recovery.				0							
			18.0	2.5 5/4, Red-brown, Fat Clay, wet, high plasticity, cohesive, medium stiff, no odor	CH			0	2						
			19.5	No recovery.				0	2.5						

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power			License/Permit/Monitoring Number SWLP		Boring Number B-117	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota			Date Drilling Started 7/21/2020		Date Drilling Completed 7/21/2020	
Drilling Method Direct Push						
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N			Lat ° ' "		Local Grid Location	
1/4 of 1/4 of Section , T N, R			Long ° ' "		Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Douglas	County Code 16	Civil Town/City/ or Village Superior		

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	
60 36			1.5	Sand and Gravel for parking area, trace fines, loose, faint odor, 7.5YR8/1										
			3.0	Silt, with some clay, trace sand and gravel, petrol/chemical odor, low plasticity, non cohesive, gley2 5/52PB	ML									
60 48			4.5	Silt with Sand and Gravel, non-plastic, non-cohesive, loose, trace clay, 2.5YR3/1	ML									
			6.0	Firm Clay, 2.5YR3/4, some sand trace gravel, cohesive, medium-high plasticity	CL-CH				3.5					
60 60			7.5	Stiff Clay with trace sand and gravel, trace organic material, slight odor, medium plasticity, cohesive 2.5YR3/4	CL-CH									
			10.5	Stiff-Very Stiff, 2.5YR4/4, Fat Clay, trace sand, some light mottling, massive, cohesive, moist, 10'; 0.2' wood chips, odor, black	CH						2			
			12.0								2			
			13.5								2.25			
60 60			15.0	Sandy Clay										
			16.5	Clay with sandy seams and silty sand, very wet, loose, faint odor	CH						1			
			18.0	Clay with sandy seams and silty sand, moist, soft, loose, faint odor	CH						1			
			19.5											

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power			License/Permit/Monitoring Number SWLP		Boring Number B-100	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota			Date Drilling Started 7/21/2020		Date Drilling Completed 7/21/2020	
Drilling Method Direct Push						
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N			Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of T N, R			Long ° ' "		Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Douglas	County Code 16	Civil Town/City/ or Village Superior		

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		
1	60 48		1.5	Topsoil, dark brown, sand gravel and roots, moist, no odor											
			3.0	Silty clay with trace sand and gravel, firm, chemical odor	CL-ML					2.5					
2	60 30		4.5	Black, Silty Clay with roots, firm, moist, non-cohesive, original surface, trace sand and gravel, odor	CL-ML										
			6.0	Silty Clay, firm, moist, cohesive, 2.5YR4/6, trace sand/gravel, odor	CL-ML					2					
			7.5	Silty Clay interbedded with sand and gravel, medium stiff, black, asphaltic and strong odor, CL; cohesive, faint sheen with dark mottling	CL-ML										
3	60 60		10.5	Clay with dark mottles, medium-stiff	CL										
			12.0	Gravel with silt and clay, oily muck and NAPL, very strong odor	GP										
4	60 24		13.5	Stiff Clay, 2.5YR4/4, high plasticity, cohesive, odor, 15-15.7; some sheen	CH										
			15.0	High plasticity, moist	CH										
			16.5	Impacted Sand and Gravel with black muck, 10YR7/2, some silt/clay, non-cohesive, odor											
			18.0	Friable loose sand, brown to buff, odor											
			19.5												

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power			License/Permit/Monitoring Number SWLP		Boring Number B-103		
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thopson Dakota			Date Drilling Started 7/22/2020		Date Drilling Completed 7/22/2020		
WI Unique Well No.			DNR Well ID No.		Common Well Name		
Final Static Water Level Feet MSL			Surface Elevation Feet MSL		Borehole Diameter 2.0 inches		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" 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		
1/4 of		1/4 of Section		T		N, R	
Facility ID		County Douglas		County Code 16		Civil Town/City/ or Village Superior	

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		
1	60 50		1.5	Topsoil, sandy silt with roots and some gravel, no odor, non-plastic, moist/wet, fill, 5R2.5/1, non-cohesive, no odor		XXXX									
			3.0	Silt with some sand and trace gravel, trace clay, moist-wet, non-plastic, non-cohesive, gley2 7/5PB-2 4/5PB, no odor	ML										
			6.0	Silt, massive, non-plastic, non-cohesive, no odor, gley1 6/5, medium-firm, moist-wet	ML				1.75						
			7.5	Silt, finely laminated, medium-firm, non-plastic, no odor, non-cohesive, gley1 6/5- gley2 4/5PB	ML				1.5						
	60 20		10.5	Sand, odor	SP			1.25						
			12.0	Silt, finely laminated, medium-firm, non-plastic, no odor, non-cohesive, gley1 6/5- gley2 4/5PB, wet, saturated, very loose	ML										
			13.5	Wood, sand and gravel, strong visible sheen, black odor											
			15.0	Silty clay, some sand and trace gravel, 2.5YR4/4	CH				1.5						
			16.5	Fat Clay, trace sand, moist, 2.5YR4/3, high plasticity, cohesive, no odor	CH				1.75						
			18.0		CH										
			19.5						1.75						

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number B-104	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/22/2020		Date Drilling Completed 7/22/2020	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N		Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of Section T N, R		Long ° ' "		Feet <input type="checkbox"/> S <input type="checkbox"/> W	

Facility ID	County Douglas	County Code 16	Civil Town/City/ or Village Superior
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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	
1	60 14		1.5	Fill, standard gravel, loose, medium, trace silt and clay, non-cohesive, non-plastic, no odor, light grey to black										
			6.0	Stiff Clay-very stiff, 2.5YR4/3, trace sand and gravel, high plasticity, cohesive, no odor, massive, moist	CH					3				
3	60 60		10.5	Fragmented sand and gravel, dark grey						3.75				
			12.0	Stiff Clay-very stiff, 2.5YR4/3, trace sand and gravel, high plasticity, cohesive, no odor, massive, moisture increasing with depth	CH					2.75				
			15.0		CH					2				
			17.5							1.75				
			18.0							2				
			19.5							1.5				
										1.25				

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Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number B-105	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/21/2020		Date Drilling Completed 7/21/2020	
Drilling Method Direct Push					
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.0 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N			Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
1/4 of Section T N, R			Lat _____ " _____ " Long _____ " _____ "		
Facility ID	County Douglas	County Code 16	Civil Town/City/ or Village Superior		

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		
1	60 36		0.0 - 1.5	Topsoil, soft, wet, with light gravelly fill, no odor					2						
			1.5 - 4.5	Medium stiff, CL-CH, 2.5YR4/3, fracture 3.0' showing root-zone, possible former surface trace sand, gravel, root/plant fibers visible throughout interval, medium plasticity, moist cohesive, massive, no odor	CL					2.25					
2	60 60		4.5 - 6.0	Fat Clay with trace sand and gravel, medium to high plasticity, 2.5YR1/3, no odor, moist, medium stiff					2						
			6.0 - 7.5		CH				2.25						
3	60 42		7.5 - 10.5	Fat Clay with trace sand and gravel, 10R4/3, firm, moist, no odor, high plasticity, cohesive, massive					1.5						
			10.5 - 12.0		CH				2						
4	60 38		12.0 - 15.0	Fat Clay with trace sand and gravel, 10R4/3, firm, moist, no odor, high plasticity, cohesive, massive					2.75						
			15.0 - 16.5		CH				1.25						
			16.5 - 18.0	Silt, grey, interbedded with clay					1.25						
			18.0 - 19.5		ML				1.25						

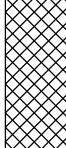



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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power			License/Permit/Monitoring Number SWLP		Boring Number B-106	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota			Date Drilling Started 7/17/2020		Date Drilling Completed 7/17/2020	
WI Unique Well No.			DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL			Surface Elevation Feet MSL		Borehole Diameter inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N			Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of Section T N, R			Long ° ' "		Feet <input type="checkbox"/> S <input type="checkbox"/> W	

Facility ID	County Douglas	County Code 16	Civil Town/City/ or Village Superior
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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	
60 48			1.5	Crushed cement, grey to brown, gravel, dry, loose, non-cohesive, some black silt, no odor				0	34.5					
			3.0					0	2					
60 54			4.5	Red brown 2.5 5/4, fat clay, dry, v. stiff, cohesive, high plasticity, massive	CH			0	2.5				9.5-10' No recovery	
			6.0					0	34.5					
60 60			7.5	Red brown 2.5 5/4, fat clay, moist, v. stiff, cohesive, high plasticity, massive	CH			0	4				10-12' Sample collected	
			9.0					0	3.5					
60 60			10.5	Red brown 2.5 5/4, fat clay, moist, v. stiff, cohesive, high plasticity, massive	CH			0	3					
			12.0					0	2.5					
60 60			13.5					0	4.5					
			15.0					0	2.5					
60 60			16.5					0	3					
			18.0					0	2.5					
60 60			18.0					0	2					
			19.5					0	2					

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Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number B-107	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/17/2020		Date Drilling Completed 7/17/2020	
Drilling Method Direct Push		WI Unique Well No.		DNR Well ID No.	
Common Well Name		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Borehole Diameter 2.0 inches		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of		1/4 of Section		T N, R	
Facility ID		County Douglas		County Code 16	
				Civil Town/City/ or Village Superior	

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	
60	39		1.5	Clayey Silt with sand, roots, firm (dry-moist), 2.5YR3/4	CL-ML									
			3.0	Silty Clay with gravel, 2.5YR3/3, firm (dry-moist), some dark mottling	CL-ML									
			4.5	Wood chips	CH									
60	60		6.0	Silty Clay with gravel, 2.5YR3/3, firm (dry-moist), some dark mottling	CL-ML									
			7.5	Oily Wood Chips, has odor, visible sheen	CL-ML									
			9.0	Soft Fat Clay with trace sand, odor, moist-wet, 10R3/3	CL-ML									
			10.5	No recovery.										
			12.0	Silty Clay, 5YR2.5/1, soft	CL-CH									
			13.5	Sandy seam, odor, sheen on sand	CL-CH									
			15.0	CL-CH, Oily sheen in possible root traces, open faces show some production fractures, moist	CL-CH									
60	12		16.5	CH-CL, moist, medium plasticity to high plasticity, cohesive, massive. 11' saturated fracture producing NAPL product	CH									
			18.0	No recovery.										
			19.5											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **Foth I&E** 2121 Innovation Ct De Pere, WI Tel: _____ Fax: _____

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number B-108	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/17/2020		Date Drilling Completed 7/17/2020	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" 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	
1/4 of		1/4 of Section		T N, R	
Facility ID		County Douglas		County Code 16	
Civil Town/City/ or Village Superior					

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		
1	60 48		1.5	Fill, gravel with sand and gravel											
			3.0	Silty Clay with sand, dense, 5R2.5/1, dry, some fill, reddish mottling, no odor	CL-ML										
			4.5	Silty Clay with some sand, dense, 10R4/6, dry, medium plastic	CL-ML						4.5				
	6.0		Stiff reddish Clay with trace sand, trace grey mottling, dry-moist, 10R3/3	CL						3.5					
	7.5			CL					2.5						
	9.0			CL					3.5						
60 54		10.5	Stiff Clay with trace sand, silt and weathered trace gravel, 2.5YR4/3, massive, some grey mottling, dry/moist	CL					2						
		12.0		CL				1.75							
		13.5		CL				2							
60 6		15.0	Fat Clay, 2.5YR4/3, trace sand and gravel, high to medium plasticity	CH					1.75						
		16.5		CH				1							
		18.0		CH				1							
			19.5						1						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number B-110	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/16/2020		Date Drilling Completed 7/16/2020	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" 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	
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Facility ID	County Douglas	County Code 16	Civil Town/City/ or Village Superior
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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		
	60 48		1.5	Silt, some gravel and coarse sand, 2.5YR21/1, strong sweet chemical odor, dry				10							4-5' No recovery
			3.0	Red-brown 2.5YR5/4, fat clay, v. stiff, moist, high plasticity, cohesive, strong sweet chemical odor	CH										
	60 60		4.5					300	4.5						
			6.0	Red-brown 2.5YR5/4, fat clay, v. stiff, moist, high plasticity, cohesive, strong sweet chemical odor				300	3						5-7' Sample collected
			6.0					300	2.5						
			7.5					300	4						
			9.0					300	3						
			9.0					300	3.5						
	60 60		10.5					300	2.5						
			12.0		CH			300	2.5						
			13.5					300	2.5						
			13.5					300	2.5						
			15.0					300	2.5						
	60 60		15.0					300	2						17.5-20' No recovery
			16.5					300	2.5						
			18.0												
			19.5												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number B-111	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/14/2020		Date Drilling Completed 7/14/2020	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N		Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
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Facility ID		County Douglas		County Code 16	
				Civil Town/City/ or Village Superior	

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	
60 24			1.5	Light brown to red to black fill material, asphalt, gravel, silt, fine sand, dry, no odor	GW			0						2-5' No recovery
			3.0					0						
60 42			6.0	Reddish brown 2.5YR4/4, fat clay high plasticity, moist, stiff, black staining, no odor	CH			0	2.5				8.5-10' No recovery, 5-6' Sample Collected	
			7.5					0	0.75					
60 12			9.0	Black stained fine sand with silt, slight burnt odor	SP			0	1.5				11-15' No recovery	
			10.5	Black stained clay, wet, high plasticity, stiff	CH			2.5						
60 60			15.0	Red brown, 2YR4/4, fine sand loose, wet, no odor, massive, some clay, no odor	SP			0						
			18.0					Black stained fat clay, wet, high plasticity, stiff, massive, no odor	CH			0		0.5

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number B-112	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/17/2020		Date Drilling Completed 7/17/2020	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N		Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
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Facility ID		County Douglas		County Code 16	
				Civil Town/City/ or Village Superior	

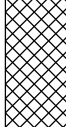





Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
60 48			1.5	light grey cement, dry, loose											4-5' No recovery
			3.0	Dark grey, 7.5 4/1, silt, dry, hard, cohesive, non-plastic, no odor	ML			4 5 4	2 4.5						
60 48			6.0	Dark grey, 7.5 4/1, silt, dry, hard, cohesive, non-plastic, no odor	ML										7.8-8.8' Sampled collected
			7.5												
			9.0	Black, gravel, some sand, fine, wet, chemical odor, moderate loose, non-plastic, non-cohesive	GW CH			150 120	2.5 1 2.5						
60 48			10.5	2.5 YR5/4 Fat clay, high plasticity, wet, cohesive, massive, v. stiff	CH			2	1.5						
			12.0	2.5 YR5/4 Fat clay, high plasticity, wet, cohesive, massive, v. stiff, chemical odor	CH				2						
			13.5					3	1.5						
60 60			15.0	2.5 YR5/4 Fat clay, high plasticity, wet, cohesive, massive, v. stiff, no odor	CH			0.2	2						
			16.5						1						
			18.0					3	1						
			19.5					1	2						
								0.2	2						
								0.1	2						

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Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number B-113	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/15/2020		Date Drilling Completed 7/15/2020	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N		Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
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Facility ID		County Douglas		County Code 16	
				Civil Town/City/ or Village Superior	

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	
60 48			1.5	Fill, light grey 2.5YR8/1, sand and gravel, dry, loose	GW			0	2.5					4-5' No recovery
			3.0	Grey silt/fill, dry, hard, cohesive, non-plastic, trace sand, hard	ML			0	4.5					
60 42			6.0	Grey 2.5YR4/1 and brown sand and gravel loose, fill, dry	GW			4	4.5				8.5-10' No recovery	
			7.5	Grey silt/fill, dry, hard, cohesive, non-plastic, trace sand, hard, moist	ML			190	4.5					
60 60			10.5	Grey silt/fill, dry, hard, cohesive, non-plastic, trace sand, hard, moist	ML			190	2				10-12' Sample Collected	
			12.0	Red brown 2.5YR5/4 fat clay, v. stiff, moist, high plasticity, massive, cohesive, no odor	CH			0.3	2.5					
60 48			15.0					0.2	2.5				19-20' No recovery	
			16.5					2						
			18.0					2						
			19.5											

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Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number B-114	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/16/2020		Date Drilling Completed 7/16/2020	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" 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	
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Facility ID	County Douglas	County Code 16	Civil Town/City/ or Village Superior
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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	
60 24			1.5	Grey 10YR5/1 to black to brown 10YR4/3, sand with some angular gravel, fill, coal, no odor, dry, loose, non-cohesive, non-plastic	SW			3						2-5' No recovery
			23											
60 30			6.0	Brown silt, some gravel, soft, wet, few wood chips, strong chemical odor, oily, stained	ML			13					7.5-10' No recovery	
			30											
60 30			7.5	Wood chips, black, stained, oily, wet, soft	SP			300					12.5-15' No recovery	
			300											
60 30			10.5	Black fine sand, wet, oily stained, loose, non-plastic, non-cohesive, strong chemical odor	SP			300					17.5-20' No recovery, 15-16' Sample collected	
			300											
60 30			15.0	Black fine sand, wet, oily stained, loose, non-plastic, non-cohesive, strong chemical odor	SP			300					17.5-20' No recovery, 15-16' Sample collected	
			15											
			16.5	Red-brown, fat clay, 2.5YR5/4, high plasticity, wet, cohesive, massive	CH			2						
			15											

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Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number B-115	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/16/2020		Date Drilling Completed 7/16/2020	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 4.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N		Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
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Long ° ' "		Feet		Feet	

Facility ID	County Douglas	County Code 16	Civil Town/City/ or Village Superior
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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	
60 36			1.5	Grey silt/fill, 7.5YR5/1, with gravel	ML			2						3-5' No recovery
			3.0	10YR3/3, fine sand, some silt, trace coarse sand, wet, loose	SW			0						
60 24			6.0	10YR3/3, fine sand, some silt, trace coarse sand, wet, loose	SW			5					7-10' No recovery	
			7.5	Black wood chips, oily, strong chemical odor				300						
60 60			10.5	10YR3/3, fine sand, some silt, trace coarse sand, wet, loose	SP			300					10-12' Sample collected	
			15.0	2.5YR5/4 Fat clay, high plasticity, cohesive, wet, strong chemical odor	CH			5	1.5					
60 60			16.5	10YR3/3, fine sand, some silt, trace coarse sand, wet, loose	SP			300					18-20' Sample collected	
			18.0	2.5YR5/4 Fat clay, high plasticity, cohesive, wet, strong chemical odor	CH			2	2					
			19.5											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power			License/Permit/Monitoring Number SWLP		Boring Number B-118		
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota			Date Drilling Started 7/17/2020		Date Drilling Completed 7/17/2020		
WI Unique Well No.		DNR Well ID No.	Common Well Name		Borehole Diameter inches		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N			Final Static Water Level Feet MSL		Surface Elevation Feet MSL		
1/4 of T N, R			Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County Douglas		County Code 16		Civil Town/City/ or Village Superior	

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		
MC1	60 42		0	Crushed rock, asphalt, cement, brick				0							
			1.5	Dark gray to black, Silt, hard, dry, cohesive, fill, no odor	ML			0							
			3.0	No recovery.				0							
MC2	60 42		4.5	Dark gray to black, Silt, hard, dry, cohesive, fill, no odor	ML			0							
			6.0	Dark gray to black, Silt, hard, dry, cohesive, fill, no odor	ML			0							
			7.5	Dark gray to black, Silt, hard, dry, cohesive, fill, wet, black with petroleum type odor	ML			0							
MC3	60 48		9.0	Dark gray to black, Silt, hard, dry, cohesive, fill, wet, black with petroleum type odor	ML			0							
			10.5	Black, Silt, trace coarse sand, soft, wet, moderate chemical odor, non-cohesive, non-plastic	ML			0						Sampled 10-12'	
			12.0	2.5 5/4 Red-brown, Fat Clay, high plasticity, cohesive, massive, wet, no odor	CH		0	2							
13.5	No recovery.			0	2										
MC4	60 36		15.0	2.5 5/4 Red-brown, Fat Clay, high plasticity, cohesive, massive, wet, no odor	CH			0	1.5						
			16.5	2.5 5/4 Red-brown, Fat Clay, high plasticity, cohesive, massive, wet, no odor	CH			0	2						
			18.0	No recovery.			0	2							
			19.5	No recovery.											

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Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power			License/Permit/Monitoring Number SWLP		Boring Number B-119	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota			Date Drilling Started		Date Drilling Completed 7/17/2020	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N			Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of	1/4 of Section	T N, R	Long ° ' "		Feet	Feet
Facility ID		County Douglas	County Code 16	Civil Town/City/ or Village Superior		

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		
MC1	60 30		1.5	Top soil, gravel, bits of wood	CL			0							
			3.0	10YR2.5/1, Lean Clay, moist, low plasticity, trace, coarse sand, cohesive	GP			0							
MC2	60 60		4.5	10YR2.5/1, small to medium gravel, some sand, wet, loose, non-cohesive, massive, non-plastic											
			6.0	No recovery.											
MC3	60 60		7.5	10R3/2, Fine Sand, wet, loose, non-plastic, non-cohesive, trace coarse sand and medium sub-angular gravel, 8' 1" of wood chip layer, black, slight sheen and chemical odor	SP			0							
			9.0					3							
MC4	60 60		10.5	10R3/2, fine to medium, Sand, some silt, wet, loose, non-plastic, non-cohesive, faint chemical odor				2							
			12.0					3							
			13.5					7							
			15.0					3							
			16.5					8							
			18.0					4							
			19.5					3							
				2.5 5/4 Fat Clay, high plasticity, cohesive, massive, wet, no odor	CH			0	1						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number B-120	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/16/2020		Date Drilling Completed 7/16/2020	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N		Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of T		1/4 of Section N, R		Long ° ' "	
Facility ID		County Douglas		County Code 16	
				Civil Town/City/ or Village Superior	

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		
MC	60 48		0-2	Asphalt.				0							
			2-4	Red-black, 2.5YR1/1, lean Clay, dry, very stiff to medium stiff, some fine to coarse grained sand, some silt, no odor				0	4.5						
			4-6	No recovery.				0	4						
MC2	60 60		6-8	2.5YR5/4 red-brown, Fat Clay, very stiff, moist to wet at 3' high plasticity, cohesive, no odor, massive				0	3.5						
			8-10					0	3.5						
MC3	60 54		10-12		CH			0	3						
			12-14					0	3.5						
			14-16					0	3.5						
MC4	60 60		16-18	2.5YR5/4 red-brown, Fat Clay, very stiff, moist to wet at 3' high plasticity, cohesive, no odor, massive, trace coarse sand	CH			0	3.5						
			18-20	2.5YR5/4 red-brown, Fat Clay, very stiff, moist to wet at 3' high plasticity, cohesive, no odor, massive, trace crushed asphalt	CH				2						
			20-22	2.5YR5/4 red-brown, Fat Clay, very stiff, moist to wet at 3' high plasticity, cohesive, no odor, massive, trace crushed asphalt	CH				1.5						
			22-24	2.5YR5/4 red-brown, Fat Clay, very stiff, moist to wet at 3' high plasticity, cohesive, no odor, massive, trace crushed asphalt	CH				1						
			24-26	2.5YR5/4 red-brown, Fat Clay, very stiff, moist to wet at 3' high plasticity, cohesive, no odor, massive, trace crushed asphalt increasing moisture content with depth					1						
			26-28	2.5YR5/4 red-brown, Fat Clay, very stiff, moist to wet at 3' high plasticity, cohesive, no odor, massive											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number B-121	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/15/2020		Date Drilling Completed 7/15/2020	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" 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	
1/4 of		1/4 of Section		T N, R	
Facility ID		County Douglas		County Code 16	
				Civil Town/City/ or Village Superior	

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			
MC1	60 36		1.5	Brown 7.5YR5/3 Sand, Silt, gravel fill, dry loose, no odor				1								
			3.0	Asphalt, dry, no odor				3								
			4.5	No recovery.												
MC2	60 60		6.0	7.5YR5/3, light brown to gray, Silt, trace coarse sand and fine sand, fining downward, moist at 8'	ML			0	1.5							
			7.5					0								
			9.0					1.5	4.5							
			10.5					4	4.5							
MC3	60 48		12.0	7.5YR5/1, gray to black Silty Gravel, loose moist, fill, no odor	GW			0								
			13.5					7.5YR5/1, light brown to gray, Silt, trace coarse sand and fine sand, fining downward	GW		150	2.5				
			15.0								150					
			16.5					Black Gravel with silt, mild chemical odor, moist, slight sheen, loose, non cohesive	SP CH		9.2					
			18.0								3					
			19.5					Medium grained Sand, 2.5YR3/2, wet, loose, no odor, non-cohesive, trace clay, low plasticity								
	2.5YR 5/4, Fat Clay, high plasticity, wet, no odor, medium stiff, high plasticity															
	No recovery.															

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number B-122	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/16/2020		Date Drilling Completed 7/18/2020	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" 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	
1/4 of		1/4 of Section		T N, R	

Facility ID	County Douglas	County Code 16	Civil Town/City/ or Village Superior
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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		
MC1	60 24		1.5 3.0	Red-black 2.5YR1/1, Lean Clay, medium plasticity, organics, moist, cohesive, organics to 1.4', trace coarse sand, no odor, trace silt, soft No recovery.	CL			0 0							
MC2	60 60		6.0 7.5 9.0	2.5YR5/4 Red-brown, Fat Clay, very stiff, moist, high plasticity, no odor massive, cohesive				0 0 0 0	2.5 2 2.5 2.5						
MC3	60 60		10.5 12.0 13.5		CH			0 0 0	2.5 2.5 2.5					Sampled 10-12'	
MC4	60 60		15.0 16.5 18.0 19.5					0 0 0 0	2.5 2 2.5 2.5						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power			License/Permit/Monitoring Number SWLP		Boring Number B-123		
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota			Date Drilling Started 7/17/2020		Date Drilling Completed 7/17/2020		
WI Unique Well No.		DNR Well ID No.	Common Well Name		Final Static Water Level Feet MSL		
					Surface Elevation Feet MSL		
					Borehole Diameter inches		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N			Lat _____ " _____ "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____ " _____ "				
Facility ID		County Douglas		County Code 16		Civil Town/City/ or Village Superior	

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		
MC1	60 54		1.5	Crushed concrete, gravel, silt, fill				0							
				2YR5/4 red-brown, Fat Clay, dry, very stiff, cohesive, high plasticity, no odor	CH			0							
			3.0	Asphalt											
				2YR5/4 red-brown, Fat Clay, dry, very stiff, cohesive, high plasticity, no odor	CH			0	4.5						
MC2	60 54		4.5	No recovery.				0							
				2YR5/4 red-brown, Fat Clay, dry, very stiff, cohesive, high plasticity, no odor	CH			0							
MC3	60 60		10.5	No recovery				0							
				2YR5/4 red-brown, Fat Clay, dry, very stiff, cohesive, high plasticity, no odor				0	4.5						
MC4	60 60		15.0		CH			0	4						Sampled 13-15'
								0	4						
								0	4						
								0	4						
								0	4						
			16.5					0	4						
			18.0					0	3						
			19.5					0	3.5						
								0	2.5						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power			License/Permit/Monitoring Number SWLP		Boring Number B-124		
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota			Date Drilling Started 7/16/2020		Date Drilling Completed 7/16/2020		
WI Unique Well No.		DNR Well ID No.	Common Well Name		Borehole Diameter inches		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Final Static Water Level Feet MSL		Surface Elevation Feet MSL		
Local Grid Location Lat _____ ° _____ ' _____ " _____ Long _____ ° _____ ' _____ " _____			<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W				
Facility ID		County Douglas		County Code 16		Civil Town/City/ or Village Superior	

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		
MC1	60 24		0	Gray 7.5YR5/1, Silt some gravel, fill, dry, no odor dry	ML			0							
			1.5	10YR3/3 Brown, fine Sand, some silt, trace coarse sand, wet, loose, non-cohesive	SP										
MC2	60 36		4.5	10YR3/3 Brown, fine Sand, some silt, trace coarse sand, wet, loose, non-cohesive, strong chemical odor	SP			10							
			6.0	10YR3/3 Brown, fine Sand, some silt, trace coarse sand, wet, loose, non-cohesive, black wood chips	SP			300							
MC3	60 60		10.5	Black, Fine Sand, some silt, stained oily, wet, loose, strong chemical odor, non-plastic, non-cohesive	SP			200						Sampled 13-15'	
			12.0				300								
MC4	60 60		15.0	2.5YR5/4 Fat Clay, high plasticity, cohesive, wet, strong chemical odor	CH			3	1.5						
			16.5	Black, Fine Sand, some silt, stained oily, wet, loose, strong chemical odor, non-plastic, non-cohesive	SP										
			18.0	2.5YR5/4, Fat Clay, moderate chemical odor, high plasticity, cohesive, wet	CH			200	2						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power			License/Permit/Monitoring Number SWLP		Boring Number B-125	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota			Date Drilling Started 7/16/2020		Date Drilling Completed 7/16/2020	
WI Unique Well No.		DNR Well ID No.	Common Well Name		Borehole Diameter inches	
Final Static Water Level Feet MSL			Surface Elevation Feet MSL			
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Lat _____ ° _____ ' _____ " _____" Long _____ ° _____ ' _____ " _____"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Douglas	County Code 16	Civil Town/City/ or Village Superior		


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	
MC1	60 30		1.5	Gravel, crushed rock, fill	SW			17						
			3.0											
MC2	60 18		4.5	Brown 10YR4/2, Sandy Gravel, loose wet, non-plastic, non-cohesive, black staining and sheen, 6-6.5' strong chemical odor	GW			60 20						
			7.5											
MC3	60 60		10.5	Brown 10YR4/2, Fine Sand, wet, loose, non-cohesive, non-plastic, massive, staining, sheen, oily, strong chemical odor, wet	SP			300 300 300						
			12.0											
MC4			15.0	Red-brown 2.5YR5/4, Fat clay, poor recovery, oil in macro core tube. Material too soft to recover.	CH									Sampled 13-15'
			16.5											
			18.0											
			19.5											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power			License/Permit/Monitoring Number SWLP		Boring Number B-126	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota			Date Drilling Started 7/15/2020		Date Drilling Completed 7/15/2020	
WI Unique Well No.		DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane N, E S/C/N		Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
1/4 of	1/4 of Section	T	N, R	Long ° ' "		Feet <input type="checkbox"/> Feet <input type="checkbox"/> W
Facility ID		County Douglas	County Code 16	Civil Town/City/ or Village Superior		

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		
MC1	60	48		1.5	Concrete				0	2						
				3.0	Grey 7.5YR5/1, silt, trace coarse sand, Fill, dry, no odor, very stiff	ML			1							
				4.5	No recovery.											
MC2	60	60		6.0	Grey silt, trace coarse sand, fining downward, dry, no odor, very stiff, 7' and 8' have pale red layeres of fine sand, moist, 7' 2.5YR7/2				0	1.25						
				8.0					80	3						
				7.5					80	3						
				9.0		ML										
MC3	60	42		10.5												
				12.0												
				13.5	Black staining and wood chips, sheen, strong, chemical odor				180							
MC4	60	42		15.0	No recovery.											
				16.5	Black goey Silt and some small gravel, sheen (heavy) oily, wet	ML			300							
				18.0	Red-brown, 2.5YR5/4, Fat Clay, high plasticity, wet, medium stiff, cohesive, no odor	CH			3	1						
				19.5	No recovery.											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number B-127	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/15/2020		Date Drilling Completed 7/15/2020	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" 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	
1/4 of		1/4 of Section		T N, R	
Facility ID		County Douglas		County Code 16	
				Civil Town/City/ or Village Superior	

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				
MC1	60 60		0.0	Gravel, gray 7.5YR5/1, loose, dry, no odor	GW			0.4									
			1.5	Light grey to dark grey, 7.5YR7/1 to 7.5YR5/1, Silt or lime or cement, hard, cohesive, wet 2-3' then dry, wet 11', no odor, massive, hard, piece of rock at 10'					3	4							
			3.0						10								
			4.5						14	4.5							
MC2	60 60		6.0		ML			3									
			7.5					2	4.5								
			9.0					13	4.5								
			10.5					34	4.5								
MC3	60 60		12.0					15	4.5								
			13.5					Black Silt and Wood chips, strong chemical odor, slight sheen	ML				240	1			
			15.0										300	2			
			16.5					Black Silt, wet, non-cohesive, soft, oily, strong chemical odor	ML				340	1			
18.0	350																
MC4	60 60		18.0	2.5YR5/4, Fat Clay, high plasticity, wet, very stiff, cohesive, massive	CH			90	1.5								
			19.5					2	2.5								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number LIF45	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/13/2020		Date Drilling Completed 7/13/2020	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N		Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of		1/4 of Section		T N, R	
Long ° ' "		Feet		Feet	

Facility ID	County Douglas	County Code 16	Civil Town/City/ or Village Superior
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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	
MC1	60 24		1.5	light gray, medium to coarse grained sand, dry, loose, no odor. Black, medium coarse, Sand, moist, loose, no odor, non cohesive, massive.	SP			0						
			3.0	No recovery.										
MC2	60 24		4.5	Black, coarse Sand, loose, wet, no odor, no plasticity, non cohesive, massive	SP			0						
			6.0	Dark brown, fat Clay, some fine sand, wet, medium-plasticity, medium-stiff, no odor, cohesive, massive	CH			0	1					
MC3	60 36		10.5	Dusty red, 10YR3/2, Fine Sand-Silt, trace silt, loose, wet, non-cohesive, no plasticity, no odor, massive	SP-SM			0						
			12.0	No recovery.					0					
MC4	36 36		15.0	Dusty red, 10YR3/2, Fine Sand-Silt, trace silt, loose, wet, non-cohesive, no plasticity, no odor, massive	SP-SM			0						
			16.5	Dusty red, 10YR3/2, Fine Sand-Silt, trace silt, loose, wet, non-cohesive, no plasticity, no odor, massive, few small rounded gravels	SP-SM									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power			License/Permit/Monitoring Number SWLP		Boring Number SLIF26		
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota			Date Drilling Started 7/14/2020		Date Drilling Completed 7/14/2020		
WI Unique Well No.			DNR Well ID No.		Common Well Name		
Final Static Water Level Feet MSL			Surface Elevation Feet MSL		Borehole Diameter inches		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N			Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
1/4 of Section T N, R			Long ° ' "		Feet <input type="checkbox"/> Feet <input type="checkbox"/>		
Facility ID		County Douglas		County Code 16		Civil Town/City/ or Village Superior	

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	
MC1	60 18		1.5	Gravel, crushed rock	GP			28						
			3.0	Red-brown 2.5YR5/4, fine to medium grained Sand, fining downward, wet, no odor, loose, asphalt at 0.6-0.7', non-plastic, non-cohesive, no odor, wood chips at bottom, faint chemical odor	SP			1.5						
MC2	60 12		4.5	No recovery.										
			6.0											
MC3	60 54		9.0	Red-brown 2.5YR5/4, fine to medium grained Sand, fining downward, wet, no odor, loose, asphalt at 0.6-0.7', non-plastic, non-cohesive, no odor, wood chips at bottom, faint chemical odor	SP			8						
			10.5	Black sandy gravel, wet, loose, non-cohesive, non-plastic, stained, oily, strong chemical odor	GW			82						
			12.0	2.5YR5/4 red-brown, fat clay, medium stiff, wet, massive, cohesive, high plasticity strong chemical odor	CH			300						
			13.5	2.5YR5/4 red-brown, fat clay, medium stiff, wet, massive, cohesive, high plasticity strong chemical odor	CH			15	1					
			15.0	No recovery				6						
				2.5YR5/4 red-brown, fat clay, medium stiff, wet, massive, cohesive, high plasticity strong chemical odor										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power			License/Permit/Monitoring Number SWLP		Boring Number SLIF27	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota			Date Drilling Started 7/14/2020		Date Drilling Completed 7/14/2020	
WI Unique Well No.		DNR Well ID No.	Common Well Name		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane N, E S/C/N		Lat <input type="checkbox"/> N <input type="checkbox"/> E Long <input type="checkbox"/> S <input type="checkbox"/> W		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
1/4 of	1/4 of Section	T	N, R	Feet	Feet	Feet
Facility ID		County Douglas	County Code 16	Civil Town/City/ or Village Superior		

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	
MC1	60 36		1.5	Fill material, gravel, silt, sand, grey to black to red-brown, dry, loose	GW			0.2						
			3.0	Red-brown, fine, Sand, 2.5YR5/4, wet, loose, no odor No recovery.	SP									
MC2	60 18		6.0	Red-brown, 2.5YR5/4, fine Sand, trace coarse sand, wet, loose, non-cohesive, non-plastic, black staining in bottom 3" and chemical odor No recovery.	SW			12.4						
			7.5											
MC3	60 48		10.5	Red-brown, 2.5YR5/4, fine Sand, trace coarse sand, wet, loose, non-cohesive, non-plastic, black staining in bottom 3" and chemical odor, oily	SW			136.6						
			12.0											
MC4	12 12		13.5	Red-brown 2.5YR5/4, Fat Clay, wet, strong chemical odor, medium stiff, high plasticity, cohesive	CH			250						
			15.0	No recovery.	CH									
				Red-brown, 2.5YR5/4, Fat Clay, wet, strong, strong chemical odor, medium stiff, high plasticity, cohesive										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Foth I&E 2121 Innovation Ct De Pere, WI	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number SLIF31	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/14/2020		Date Drilling Completed 7/14/2020	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 4.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N		Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of		1/4 of Section		T N, R	
Long ° ' "		Feet		Feet	

Facility ID	County Douglas	County Code 16	Civil Town/City/ or Village Superior
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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		
60 36			1.5	Grey gravel and topsoil											3-5' no recovery
				weak red 10YR5/2 fine sand, dry, loose, non-plastic, non-cohesive, no odor, massive	SP			0							
60 30			3.0	Red-black 7.5YR2.5/1 medium-coarse sand, loose, dry, non-cohesive, no odor	SP			0						7.5-10' no recovery	
				Fat clay, trace sand, weak red 10YR4/3, moist	CH										
60 36			4.5	Dusty red 10YR5/2, fine sand, wet, loose, non-cohesive, massive, slight chemical odor	SP			5						13-15' no recovery	
				Wood chips, black, chemical odor, sheen 6.5-7'				300							
60 36			6.0	Dusty red 10YR5/2, fine sand, wet, loose, non-cohesive, massive, slight chemical odor	SP			2						16.5-18' no recovery	
				Dusty red 10YR5/2, fine sand, wet, loose, strong chemical odor, non-cohesive, non plastic	SP			30							
60 36			7.5	Dusty red 10YR5/2, fine sand, wet, loose, strong chemical odor, non-cohesive, non plastic	SP			45.4						16.5-18' no recovery	
				Dusty red 10YR5/2, fine sand, wet, loose, strong chemical odor, non-cohesive, non plastic	SP			32.5							
36 6			12.0	Dusty red 10YR5/2, fine sand, wet, loose, strong chemical odor, non-cohesive, non plastic	SP			8.8						16.5-18' no recovery	
				Dusty red 10YR5/2, fine sand, wet, loose, strong chemical odor, non-cohesive, non plastic	SP			2.3							
36 6			15.0	Dusty red 10YR5/2, fine sand, wet, loose, strong chemical odor, non-cohesive, non plastic, coarse sand and small rounded gravel towards bottom	SP			5.5						16.5-18' no recovery	
				Dusty red 10YR5/2, fine sand, wet, loose, strong chemical odor, non-cohesive, non plastic, coarse sand and small rounded gravel towards bottom	SP										

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power			License/Permit/Monitoring Number SWLP		Boring Number SLIF32		
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota			Date Drilling Started 7/13/2020		Date Drilling Completed 7/13/2020		
WI Unique Well No.			DNR Well ID No.		Common Well Name		
Final Static Water Level Feet MSL			Surface Elevation Feet MSL		Borehole Diameter 4.0 inches		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N			Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
1/4 of Section T N, R			Long ° ' "		Feet <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County Douglas		County Code 16		Civil Town/City/ or Village Superior	

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	
60 24			1.5	Topsoil, sand, silt and gravel, angular, 10YR2/1, dry	SP									
			3.0	Medium to fine sand, well sorted, subangular, 5YR5/4, moist, 15-25% lithes	SP									
60 32			4.5	Black sand and gravel, medium-coarse, angular, 5R2.5/1, moist/wet										
			7.5	Black sand and gravel, medium-coarse, angular, 5R2.5/1, wet	SP			15						
60 36			9.0	Wood chips, wet, organics and muck, 80% organics, 5R2.5/1										
			10.5	medium sand, no plasticity, sub rounded, 2.5YR4/4, wet, some coarse sand, mild odor				0.7						
36 36			12.0		SP									
			15.0	medium sand, no plasticity, sub rounded, 2.5YR4/4, wet, some coarse sand	SP			0.7						
			16.5					1.5						
			18.0											

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number SLIF33	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/14/2020		Date Drilling Completed 7/14/2020	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 4.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N		Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
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Long ° ' "		Feet		Feet	

Facility ID	County Douglas	County Code 16	Civil Town/City/ or Village Superior
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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	
60 36			1.5	Light gray, 5YR7/1 to black gravel and silt, fill material, stiff dry, and no odor	GW			0	2.75					3-5' no recovery
			3.0	Coarse sand, loose, few small rounded gravel and concrete	SP			0						
60 30			4.5	Dark brown, 7.5 3/2, fine sand with clay, low plasticity, cohesive, some angular small gravel, dry, no odor	SP-SC			0.7						
			6.0	Gray crushed cement, dry, no odor	SP			1.5						
			7.5	Coarse sand, black, strong chemical odor, oily, wet, loose	SP			9.5						
60 36			7.5	Wood chips only, black, wet, strong chemical odor			135						13-15' no recovery	
			9.0	Dusty red, 10YR5/2, fine sand, wet, loose, non-cohesive, massive, strong chemical odor	GW									
36 6			10.5	Small, sub angular gravel with fine sand, wet	SP								15.5-18' no recovery, core tube stuck	
			12.0	Brown, fine sand, wet, loose, strong chemical odor, non-plastic, massive, non-cohesive	SP									
			13.5	Brown, fine sand, wet, loose, strong chemical odor, non-plastic, massive, non-cohesive	SP									
			15.0	Brown, fine sand, wet, loose, strong chemical odor, non-plastic, massive, non-cohesive	SP									
			16.5	Brown, fine sand, wet, loose, strong chemical odor, non-plastic, massive, non-cohesive										
			18.0											

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Superior Water Light and Power		License/Permit/Monitoring Number SWLP		Boring Number T6-07	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Thompson Dakota		Date Drilling Started 7/14/2020		Date Drilling Completed 7/14/2020	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 4.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N		Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
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Long ° ' "		Feet		Feet	

Facility ID	County Douglas	County Code 16	Civil Town/City/ or Village Superior
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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		
60 36			2.5	Coarse Sand and small Gravel Reddish brown, 2.5YR4/4 fine sand, loose, dry, small bands in lower 0.5', no odor, non cohesive	SP			0							3-5' no recovery
			5.0	No Recovery											
60 33.6			7.5	Reddish brown, 2.5YR fine sand, loose, small bands in lower 0.5', no odor, non cohesive	SP			0							7.8-10' no recovery
			10.0	No Recovery				0							
60 54			12.5	Reddish brown, 2.5YR fine sand, loose, small bands in lower 0.5', no odor, non cohesive, wet	SP			4 0.3 146 103 0 25 0							
60 48			15.0	Medium sand, trace coarse sand, piece of wood with oil, strong chemical odor	SP			4							15-17.5' Sample Collected
			17.5	Wood chips only, strong chemical odor	ML			146							
			20.0	Red brown Silt with fine sand, wet, chemical odor	SP			103							
30 30			22.5	Reddish brown, 2.5YR fine sand, loose, small bands in lower 0.5', wet, non cohesive, strong chemical odor	SP			25 4 0.7 78							22-25' Sample Collected
30 30			25.0	Reddish brown, 2.5YR fine sand, loose, small bands in lower 0.5', wet, non cohesive, strong chemical odor, oily	SP			1 1.2 0.9 0 0							
36 36			27.5	Crushed Stone	CH										
				Red brown, fat clay, high plasticity, cohesive, massive, 2.5YR5/3											

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