

Grittner, Paul V - DNR

From: Kurt McClung <kmcllung@setenv.com>
Sent: Tuesday, November 28, 2023 3:10 PM
To: Grittner, Paul V - DNR
Subject: RE: Path Forward regarding BRRTS # 02-41-560089; FID #241063570 Norwich Ave, St. Francis
Attachments: logs and construction forms.pdf; DF Cross Sections.pdf

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Hi Paul:

This is incomplete, but I have some of the boring logs, some of the construction forms, and cross-sections from DF.

If I find anything else today, I'll send it.

Thanks,

Kurt McClung
Office 414 225-0592
Mobile 262 853-1196

From: Grittner, Paul V - DNR <Paul.Grittner@wisconsin.gov>
Sent: Monday, November 27, 2023 5:07 PM
To: Kurt McClung <kmcllung@setenv.com>
Subject: RE: Path Forward regarding BRRTS # 02-41-560089; FID #241063570 Norwich Ave, St. Francis

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Kurt,

Boring log, well construction forms, and well development forms for the borings and wells advanced on Kitzinger would be helpful.

Cross-section figures generated for the Kitzinger site would also be a useful reference.

Thanks.

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Paul Grittner

Phone: (414) 405-0764
paul.grittner@wisconsin.gov

From: Kurt McClung <kmcllung@setenv.com>
Sent: Monday, November 27, 2023 4:27 PM

To: Grittner, Paul V - DNR <Paul.Grittner@wisconsin.gov>; mhiggins@completerecyclingservices.com; mberzowski@hotmail.com; Nancy M. Bonniwell <nbonniwell@vonbriesen.com>; Mylotta, Pamela A - DNR <Pamela.Mylotta@wisconsin.gov>

Subject: Path Forward regarding BRRTS # 02-41-560089; FID #241063570 Norwich Ave, St. Francis

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I attached current tables and figures for the former Kitzinger property. If you're able, I encourage all to review the information before our meeting on Wednesday.

If there are any questions, please call me.

Thanks,

Kurt McClung, PG, PE
Senior Engineer
Office 414 225-0592
Mobile 262 853-1196



735 North Water Street, Suite 510
Milwaukee, Wisconsin 53202

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

Facility/Project Name Former DF Property		License/Permit/Monitoring Number -		Boring Number SGP-1	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi On-Site Environmental Services		Date Drilling Started 9/17/2012		Date Drilling Completed 9/17/2012	
Drilling Method direct push		WI Unique Well No.		DNR Well ID No.	
Common Well Name		Final Static Water Level Feet Site		Surface Elevation Feet Site	
Borehole Diameter 2.0 inches		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane N, E S/C/N		Lat _____ ' _____ "		<input type="checkbox"/> N <input type="checkbox"/> E	
NW 1/4 of NE 1/4 of Section 22, T 6 N, R 22 E		Long _____ ' _____ "		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Milwaukee		County Code 41	
				Civil Town/City/ or Village St. Francis	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	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	
1 GP	60 23	P U S H	1	TOPSOIL, dk brown, few stones, loose, dry	ML			0						
			2	CHARRED WOOD, dk black-brown, dry										
			3	FILL, white gravel, dk red wood chips	GP				17					
			4											
2 GP	60 36	P U S H	5											
			6											
			7	SILTY FILL, lt grey, some fibrous pieces and glass, dry	ML				493					
			8	SILT, med brown-grey, med dense, damp	ML									
3 GP	60 36	P U S H	9					399						
			10	SILT, lt tan-brown, some red mottling, med dense, moist	ML				268					
			11											
			12	Groundwater at approx. 12'										
			13	FINE SANDY SILT, lt tan-brown, med dense, wet	SM			485						
			14											
			15	EOB at 15'. Abandoned with 3/8" bentonite chips.										

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

Signature *[Signature]* Firm **Sigma Environmental** Tel: 414-643-4200
1300 W Canal St Milwaukee WI 53233 Fax: 414-643-4210

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

Facility/Project Name Former DF Property		License/Permit/Monitoring Number -		Boring Number SGP-2	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi On-Site Environmental Services		Date Drilling Started 9/17/2012		Date Drilling Completed 9/17/2012	
Drilling Method direct push		WI Unique Well No.		DNR Well ID No.	
Common Well Name		Final Static Water Level Feet Site		Surface Elevation Feet Site	
Borehole Diameter 2.0 inches		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane N, E S/C/N		Lat _____"		<input type="checkbox"/> N <input type="checkbox"/> E	
NW 1/4 of NE 1/4 of Section 22, T 6 N, R 22 E		Long _____"		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
Facility ID		County Milwaukee		County Code 41	
				Civil Town/City/ or Village St. Francis	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	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		
1 GP	60 23	PUSH	1	SANDY GRAVEL, med grey, loose, dry	SW										
			2	FILL, debris, wood chunks, white gravel, brown-red sand, stones, tan-white fibrous stones	GP										
2 GP	60 42	PUSH	5												
			6	SILT, black, organic, dry	OL										
3 GP	60 42	PUSH	7	SILT, med red-brown, some stones, med dense, crumbles, dry	ML										Lab sample
			8												
3 GP	60 42	PUSH	10	FINE SANDY SILT, med grey, red and black spots, some stones, product saturated	SM										
			11												
			12	Groundwater at approx. 12'											
			15	EOB at 15'. Abandoned with 3/8" bentonite chips.											

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

Signature <i>B. Orzack</i>	Firm Sigma Environmental 1300 W Canal St Milwaukee WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Former DF Property		License/Permit/Monitoring Number -		Boring Number SMW-3	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi On-Site Environmental Services		Date Drilling Started 9/17/2012		Date Drilling Completed 9/17/2012	
Drilling Method hollow stem auger					
WI Unique Well No. VN600	DNR Well ID No.	Common Well Name SMW-3	Final Static Water Level Feet Site	Surface Elevation Feet Site	Borehole Diameter 8.3 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location	
NW 1/4 of NE 1/4 of Section 22, T 6 N, R 22 E		Lat _____ ° _____ ' _____ "		Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Milwaukee	County Code 41	Civil Town/City/ or Village St. Francis	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	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		
1 GP	60 18	PUSH	1.5	FILL, debris (red, green, brown, and black), some brown sand and rocks, some fibrous grey material				43							
2 GP	60 22	PUSH	4.5	moist with product	GP			617							
3 GP	60 57	PUSH	9.0	SILT, med brown-grey, some stones, slightly dense, product saturated	ML			655						Lab sample	
			10.5	FINE-MED SAND, med tan-brown, product saturated	SW			595							
4 GP	60 40	PUSH	12.0	SILT with interbedded med sand, med tan-brown, small red mottles, very dense	SM			322							
			13.5	Groundwater at approx. 12'											
			15.0	SILT with interbedded fine sand, med grey, trace stones, very dense	SM			156							
			19.5	EOB at 20'. Monitoring well SMW-3 installed with bottom of casing at 18'.											

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

Signature: *[Signature]* Firm: Sigma Environmental
1300 W Canal St Milwaukee WI 53233
Tel: 414-643-4200 Fax: 414-643-4210

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

Facility/Project Name Former DF Property			License/Permit/Monitoring Number -		Boring Number SMW-4			
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi On-Site Environmental Services			Date Drilling Started 9/17/2012		Date Drilling Completed 9/17/2012			
Drilling Method hollow stem auger		WI Unique Well No. VM607		DNR Well ID No.		Common Well Name SMW-4		
Final Static Water Level Feet Site		Surface Elevation Feet Site		Borehole Diameter 8.3 inches				
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input 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		Lat _____ Long _____	
NW 1/4 of NE 1/4 of Section 22, T 6 N, R 22 E		County Milwaukee		County Code 41		Civil Town/City/ or Village St. Francis		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	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		
1 GP	60/32	PUSH	1.5	SANDY GRAVEL, med grey, loose, dry	SW			193							
			3.0	FILL, debris, dk black-brown charred wood, white gravel, brown-red sand, lt grey fibrous material, stones											
2 GP	60/23	PUSH	4.5		GP			123							
			6.0												
			7.5												
			9.0												
3 GP	60/34	PUSH	10.5	product saturated SILT, med grey, med dense, wood pieces	ML			278							Lab sample
			12.0	SILT with interbedded med sand, med tan-brown, very dense	SM			402							
			13.5	Groundwater at approx. 12'											
			15.0												
4 GP	60/36	PUSH	16.5	SILT with interbedded fine sand, med grey, trace stones, extremely dense	SM			59							
			18.0												
			19.5												
				EOB at 20'. Monitoring well SMW-4 installed with bottom of casing at 18'.											

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

Signature <i>[Signature]</i>	Firm Sigma Environmental 1300 W Canal St Milwaukee WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Former DF Property		License/Permit/Monitoring Number -		Boring Number SPM-4	
Boring Drilled By: Name of crew chief (first, last) and Firm Alex Plumer Badger Drilling		Date Drilling Started 9/18/2012		Date Drilling Completed 9/19/2012	
Drilling Method hollow stem auger					
WI Unique Well No. VY786	DNR Well ID No.	Common Well Name SPM-4	Final Static Water Level Feet Site	Surface Elevation Feet Site	Borehole Diameter 8.3 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input 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	
NW 1/4 of NE 1/4 of Section 22, T 6 N, R 22 E		Lat _____ "		Long _____ "	

Facility ID	County Milwaukee	County Code 41	Civil Town/City/ or Village St. Francis
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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	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				Blind Drill; Cased with 6" steel pipe										
1	24	17	22.5	FINE-COARSE SANDY GRAVEL, med brown-grey, loose, wet coarse sand, lots of stones	GW			395						
2	24	26	27.0					533						
3	24	24	31.5					461						
4	24	24	31.5					445						
5	24	25	31.5					393						
6	24	16	31.5					499						
SS	15	12	31.5	SILT, lt to med brown, some black areas, very dense, wet	ML			435						
		25		EOB at 35.5'. Piezometer SPM-4 installed with bottom of casing at 35'.										

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

Signature 	Firm Sigma Environmental 1300 W Canal St Milwaukee WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Former DF Property		License/Permit/Monitoring Number -		Boring Number SGP-5	
Boring Drilled By: Name of crew chief (first, last) and Firm Josh Bartolomey Sigma		Date Drilling Started 10/2/2012		Date Drilling Completed 10/2/2012	
Drilling Method direct push					
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet Site	Surface Elevation Feet Site	Borehole Diameter 2.0 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input 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	
NW 1/4 of NE 1/4 of Section 22, T 6 N, R 22 E		Lat _____ Long _____			
Facility ID	County Milwaukee	County Code 41	Civil Town/City/ or Village St. Francis		

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 GP	48 22	P U S H	1.5	CONCRETE, building slab	GW			0							
				COARSE SAND (fill), lt tan-brown, loose	SW										
2 GP	48 43	P U S H	3.0	COARSE SAND, black, loose	SW			0							
				FINE SAND, black, slightly dense	SW			0							
				wet											
3 GP	48 48	P U S H	4.5	SILT, black, med dense, wet	ML			0							
				SILTY CLAY (possibly native), lt grey-brown, some red-brown mottles, trace gravel, very dense, wet											
4 GP	48 48	P U S H	7.5	less mottles				0							
				no mottles, no gravel	CL-MI			0							
4 GP	48 48	P U S H	10.5	Groundwater at approx. 12'				0							
				SILT, lt-med brown, supersaturated (flows)	ML			0							
4 GP	48 48	P U S H	12.0	COARSE-MED SAND, med grey-brown, med dense, wet	SW			0							
				EOB at 16'. Abandoned with 3/8" bentonite chips.											

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

Signature 	Firm Sigma Environmental 1300 W Canal St Milwaukee WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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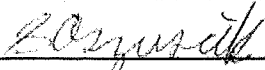
Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Former DF Property		License/Permit/Monitoring Number -		Boring Number SGP-6	
Boring Drilled By: Name of crew chief (first, last) and firm Josh Bartolomey Sigma			Date Drilling Started 10/2/2012	Date Drilling Completed 10/2/2012	Drilling Method direct push
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet Site	Surface Elevation Feet Site	Borehole Diameter 2.0 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 _____ ° _____ ' _____ "	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of NE 1/4 of Section 22, T 6 N, R 22 E			Long _____ ° _____ ' _____ "		

Facility ID	County Milwaukee	County Code 41	Civil Town/City/ or Village St. Francis
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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	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 38	P U S H	1.5	CONCRETE, building slab	GW										
				COARSE SAND (fill), med brown-tan, loose, dry	SW										
2 GP	48 42	P U S H	3.0	SILTY CLAY, med grey-brown, some red-brown mottles, very dense, dry	CL-MI										
				FINE SAND (fill - possible foundry sand), black, loose, dry	SW										
				SILTY CLAY, ff and med grey, some gravel, med dense, dry	CL-MI									Lab sample	
3 GP	48 41	P U S H	4.5	FINE SAND, med brown-red, some gravel, loose, dry	SW										
				damp, coarser sand	SW										
4 GP	48 48	P U S H	6.0	COARSE SAND, med brown-grey, loose, wet	SW										
				Groundwater at approx. 10.5'	SW										
				SILT, lt-med brown, supersaturated (flows)	ML										
				COARSE SAND, med brown-grey, loose, wet	SW										
			7.5	FINE SAND, med grey, loose, wet	SW										
			9.0	EOB at 16'. Abandoned with 3/8" bentonite chips.											

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

Signature 	Firm Sigma Environmental 1300 W Canal St Milwaukee WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Facility/Project Name <i>former Kitzinger Site</i>		License/Permit/Monitoring Number		Boring Number <i>GP17-1</i>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <i>ADAM</i> Last Name: <i>Sweet</i>		Date Drilling Started <i>11 21 2017</i>		Date Drilling Completed <i>11 21 2018</i>	
Firm: <i>Horizon Environmental</i>		Drilling Method <i>Direct Push</i>			
WI Unique Well No.	DNR Well ID No.	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 type="checkbox"/>			Local Grid Location		
State Plane _____ N, _____ E			Lat _____ ' "		
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____ ' "		
Facility ID		County <i>Milwaukee</i>	County Code	Civil Town/City/ or Village <i>St Francis</i>	

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					
				3 inches grass root matter Ⓢ top followed by moist dark brown to black top soil w/ root matter														
	2 inches			change to dry, slightly dry moist brown clay no odor, low plastic														
	2 inches		4	Saa														
	2 inches		6	Saa														
	2 inches		8	Saa														

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

Signature *Archamand B. Key* Firm *Key Engineering*

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

Page 1 of 3

Facility/Project Name <i>former Kitzinger Site</i>		License/Permit/Monitoring Number		Boring Number <i>GP17-2</i>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <i>ADAM</i> Last Name: <i>Sweet</i> Firm: <i>Horizon Environmental</i>		Date Drilling Started <i>11 21 2017</i> m m d d y y y y	Date Drilling Completed <i>11 21 2018</i> m m d d y y y y	Drilling Method <i>Direct Push</i>	
WI Unique Well No.	DNR Well ID No.	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 type="checkbox"/>			Local Grid Location		
State Plane _____ N, _____ E			Lat _____ ' " _____ ' "		
1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____ ' " _____ ' " _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W		
Facility ID		County <i>Milwaukee</i>	County Code	Civil Town/City/ or Village <i>St Francis</i>	

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		
3				Root Matter, 1 inch, Grass, 2 inches TOP Soil											
2				2 changes to moist to dry clay crumbly											
8				4 Saa, moist to stiff low plastic											
8				6 Saa											
8				8 Saa											

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

Signature *[Signature]* Firm *Key Engineering*

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.

Sample		Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	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	
				Saa										
			32	Saa										
			34	Saa										
			36	Saa										
			38	Stiffness w/ Depth ↓										
			40	Saa										
			42	Saa										
			44	Saa										
			45	Saa or B 45										
			46											

24

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

GP17-3 Page 1 of 2

Facility/Project Name <i>former Kitzinger Site</i>		License/Permit/Monitoring Number		Boring Number <i>GP17-</i>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <i>ADAM</i> Last Name: <i>Sweet</i> Firm: <i>Horizon Environmental</i>		Date Drilling Started <i>11 21 2017</i>	Date Drilling Completed <i>11 21 2018</i>	Drilling Method <i>Direct Push</i>	
WI Unique Well No.	DNR Well ID No.	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 type="checkbox"/>		Local Grid Location		Borehole Diameter inches	
State Plane _____ N, _____ E		Lat _____ ' "		<input type="checkbox"/> N <input type="checkbox"/> E	
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Long _____ ' "		Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
Facility ID		County <i>Milwaukee</i>	County Code	Civil Town/City/ or Village <i>St Francis</i>	

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	
				Fill, WOOD chunks, ↳ Foundry Sand RED BRICK SLAG (12 inches) followed by moist to stiff brn clay 2 orange nodding Saa (no nodding) Moist to Stiff										
			4	Saa										
			6	Saa										
			8	Saa										

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

Signature *Joachim Windt* Firm *Key Engineering*

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/Revelopment Other

GP 17-4
Page 1 of 2

Facility/Project Name <i>former Kitzinger Site</i>		License/Permit/Monitoring Number		Boring Number <i>GP17-</i>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <i>ADAM</i> Last Name: <i>Sweet</i> Firm: <i>Horizon Environmental</i>		Date Drilling Started <i>11 21 2017</i> m m d d y y y y	Date Drilling Completed <i>11 21 2018</i> m m d d y y y y	Drilling Method <i>Direct Push</i>	
WI Unique Well No.	DNR Well ID No.	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 type="checkbox"/> State Plane _____ N, _____ E _____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Local Grid Location Lat _____ ° ' " _____ Long _____ ° ' " _____ <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID	County <i>Milwaukee</i>	County Code	Civil Town/City/ or Village <i>ST FRANCIS</i>		

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	
<i>24</i>				<i>Hard pack brown clay w/ orange mottling</i>										
			<i>2</i>	<i>Saa less orange mottling</i>										
			<i>4</i>	<i>Saa increase orange mottling</i>										
			<i>6</i>	<i>Saa</i>										
			<i>8</i>	<i>Saa stiff</i>										

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature *Jack Janowski* Firm *Key Engineering*

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

Facility/Project Name <i>Former Kitzig site</i>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name <i>KMW-4</i>	
Facility License, Permit or Monitoring No.		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. DNR Well ID No.	
Facility ID		St. Plane ft. N. ft. E. S/C/N		Date Well Installed <i>12/27/07</i> m m d d y y y y	
Type of Well Well Code <i>1</i>		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 <i>Adam Sweet Horizon</i>	
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	

A. Protective pipe, top elevation	----- ft. MSL	1. Cap and lock?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation	----- ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	----- ft. MSL	a. Inside diameter:	<i>8</i> in.
D. Surface seal, bottom	----- ft. MSL or <i>0.5</i> ft.	b. Length:	<i>1.5</i> ft.
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 checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/> 13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/> 15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99 16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____ 17. Source of water (attach analysis, if required): <input checked="" type="checkbox"/>		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: _____
		3. Surface seal:	Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
		4. Material between well casing and protective pipe:	Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
E. Bentonite seal, top	----- ft. MSL or <i>4.5</i> ft.	5. Annular space seal:	
F. Fine sand, top	----- ft. MSL or <i>2.0</i> ft.	a. Granular/Chipped Bentonite <input type="checkbox"/> 33	
G. Filter pack, top	----- ft. MSL or <i>2.5</i> ft.	b. ___ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35	
H. Screen joint, top	----- ft. MSL or <i>3</i> ft.	c. ___ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31	
I. Well bottom	----- ft. MSL or <i>18</i> ft.	d. % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50	
J. Filter pack, bottom	----- ft. MSL or <i>18</i> ft.	e. <i>1.987</i> Ft ³ volume added for any of the above	
K. Borehole, bottom	----- ft. MSL or <i>18</i> ft.	f. How installed:	Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
L. Borehole, diameter	<i>8.375</i> in.	6. Bentonite seal:	
M. O.D. well casing	<i>8.375</i> in.	a. Bentonite granules <input type="checkbox"/> 33	
N. I.D. well casing	<i>2.0</i> in.	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"/>	
		7. Fine sand material: Manufacturer, product name & mesh size	
		a. <i>R.W. Sidelley 4000</i>	<i>40</i>
		b. Volume added <i>0.663</i> ft ³	
		8. Filter pack material: Manufacturer, product name & mesh size	
		a. <i>R.W. Sidelley</i>	<i>20</i>
		b. Volume added <i>19.875</i> ft ³	
		9. Well casing:	Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
		10. Screen material:	
		a. Screen type:	Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
		b. Manufacturer <i>Monoflex</i>	
		c. Slot size: <i>0.010</i> in.	
		d. Slotted length: <i>15</i> ft.	
		11. Backfill material (below filter pack):	None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>

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

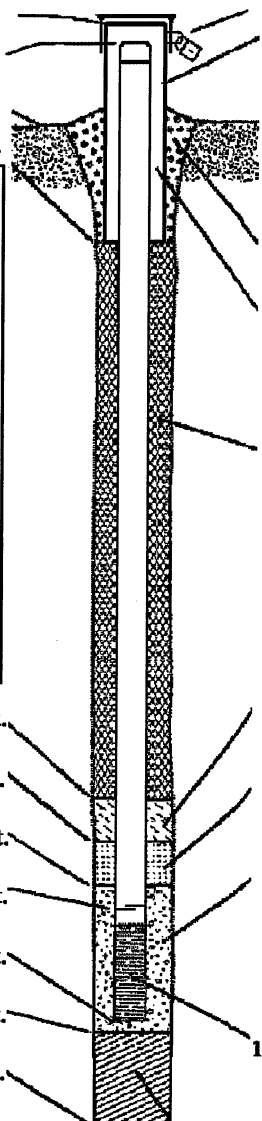
Signature: *[Signature]* Firm: *CEJ Engineering*

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>Former Kitzinger Site</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>KMW-5</u>	
Facility License, Permit or Monitoring No.		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. DNR Well ID No.	
Facility ID		St. Plane ft. N. _____ ft. E. S/C/N		Date Well Installed <u>11/27/2017</u> m m d d y y v v v y	
Type of Well Well Code <u>1</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>Adam Sweet</u> <u>Horizon</u>	
Distance from Waste/Source _____ ft.		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 _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>4</u> in.
C. Land surface elevation _____ ft. MSL	b. Length: <u>5</u> ft.
D. Surface seal, bottom _____ ft. MSL or <u>0.5</u> ft.	c. Material: Steel <input checked="" type="checkbox"/> 04 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 type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. <u>1.9875</u> Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	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"/>
17. Source of water (attach analysis, if required): <u>X</u>	7. Fine sand material: Manufacturer, product name & mesh size a. <u>R.W. Sidley 4000</u> b. Volume added <u>0.063</u> ft ³
E. Bentonite seal, top _____ ft. MSL or <u>0.5</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley</u> b. Volume added <u>19.875</u> ft ³
F. Fine sand, top _____ ft. MSL or <u>2.0</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <u>2.5</u> ft.	10. Screen material: a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>3</u> ft.	b. Manufacturer <u>Monoflex</u>
I. Well bottom _____ ft. MSL or <u>18</u> ft.	c. Slot size: <u>0.010</u> in.
J. Filter pack, bottom _____ ft. MSL or <u>18</u> ft.	d. Slotted length: <u>15</u> ft.
K. Borehole, bottom _____ ft. MSL or <u>18</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
L. Borehole, diameter <u>2.375</u> in.	
M. O.D. well casing <u>2.375</u> in.	
N. I.D. well casing <u>2.00</u> in.	



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

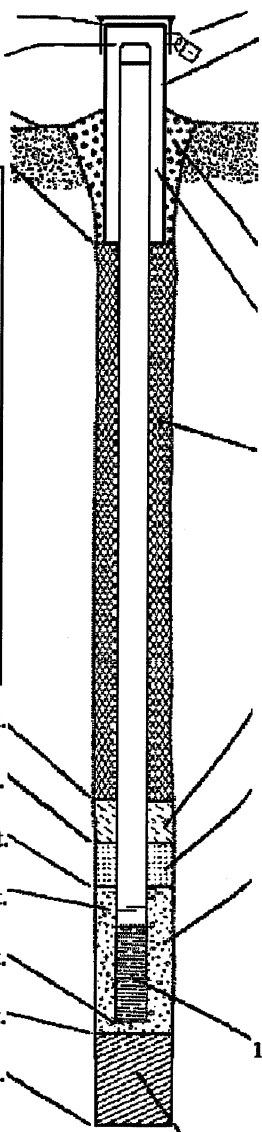
Signature: [Signature] Firm: ACE Engineering

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

Facility/Project Name <u>Former Kitzinger Site</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>KMW-6</u>	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>	
Facility ID		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed <u>11/27/01</u> m m d d y y y y	
Type of Well Well Code _____ / _____		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>Adam Sweet</u> <u>Horizon</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	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>8</u> in.
C. Land surface elevation _____ ft. MSL	b. Length: <u>1.5</u> ft.
D. Surface seal, bottom _____ ft. MSL or _____ ft.	c. Material: Steel <input checked="" type="checkbox"/> 04 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 type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	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. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. <u>10875</u> Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	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"/>
17. Source of water (attach analysis, if required): <u>X</u>	7. Fine sand material: Manufacturer, product name & mesh size a. <u>R.W. Sidley 4000</u> b. Volume added <u>0.1065</u> ft ³
E. Bentonite seal, top _____ ft. MSL or <u>6.5</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley</u> b. Volume added <u>19.875</u> ft ³
F. Fine sand, top _____ ft. MSL or <u>2</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <u>2.5</u> ft.	10. Screen material: a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>3</u> ft.	b. Manufacturer <u>Monoflex</u>
I. Well bottom _____ ft. MSL or <u>18</u> ft.	c. Slot size: <u>0.016</u> in.
J. Filter pack, bottom _____ ft. MSL or <u>18</u> ft.	d. Slotted length: <u>15</u> ft.
K. Borehole, bottom _____ ft. MSL or <u>18</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
L. Borehole, diameter <u>8.375</u> in.	
M. O.D. well casing <u>2.375</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: [Signature] Firm: KEY Engineering

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.

Facility/Project Name <i>Former Kitzinger site</i>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <i>KPZ-1</i>
Facility License, Permit or Monitoring No.	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ "Long. _____ or _____	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <i>11 12 7 2017</i> m d d y y y y
Type of Well Well Code _____ / _____	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 <i>Adam Sweet Horizon</i>
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

A. Protective pipe, top elevation ----- ft. MSL
B. Well casing, top elevation ----- ft. MSL
C. Land surface elevation ----- ft. MSL
D. Surface seal, bottom ----- ft. MSL or *0.5* ft.

12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

13. Sieve analysis performed? Yes No

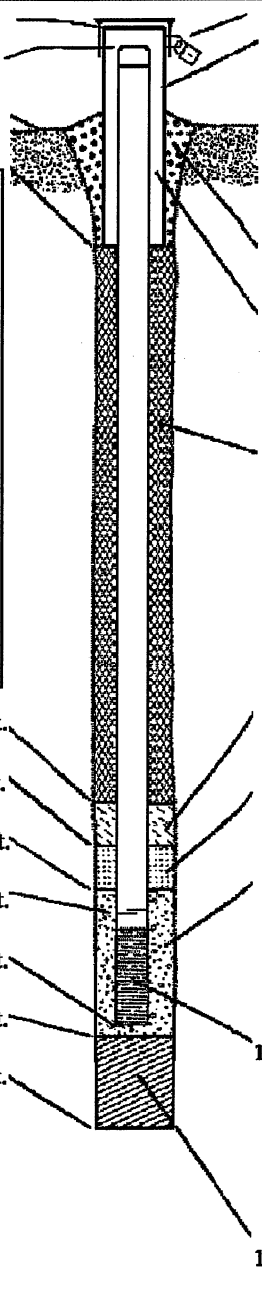
14. Drilling method used: Rotary 50
Hollow Stem Auger 41
Other

15. Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 99

16. Drilling additives used? Yes No

Describe _____

17. Source of water (attach analysis, if required):
X



1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: *8* in.
b. Length: *10* ft.
c. Material: Steel 04
Other

d. Additional protection? Yes No
If yes, describe: _____

3. Surface seal:
Bentonite 30
Concrete 01
Other

4. Material between well casing and protective pipe:
Bentonite 30
Other

5. Annular space seal:
a. Granular/Chipped Bentonite 33
b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 35
c. _____ Lbs/gal mud weight ... Bentonite slurry 31
d. _____ % Bentonite ... Bentonite-cement grout 50
e. *3.14* Ft³ volume added for any of the above
f. How installed: Tremie 01
Tremie pumped 02
Gravity 08

6. Bentonite seal:
a. Bentonite granules 33
b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
a. *R.W. Sidley 4000* 40
b. Volume added *2.650* ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. *R.W. Sidley* 35
b. Volume added *2.650* ft³

9. Well casing: Flush threaded PVC schedule 40 23
Flush threaded PVC schedule 80 24
Other

10. Screen material:
a. Screen type: Factory cut 11
Continuous slot 01
Other

b. Manufacturer *Monoflex*
c. Slot size: *0.010* in.
d. Slotted length: *10* ft.

11. Backfill material (below filter pack): None 14
Other

E. Bentonite seal, top ----- ft. MSL or *0.5* ft.
F. Fine sand, top ----- ft. MSL or *24* ft.
G. Filter pack, top ----- ft. MSL or *26* ft.
H. Screen joint, top ----- ft. MSL or *28* ft.
I. Well bottom ----- ft. MSL or *38* ft.
J. Filter pack, bottom ----- ft. MSL or *38* ft.
K. Borehole, bottom ----- ft. MSL or *38* ft.
L. Borehole, diameter *8.375* in.
M. O.D. well casing *2.375* in.
N. I.D. well casing *2.0* in.

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

Signature _____ Firm *Key Engineering*

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.

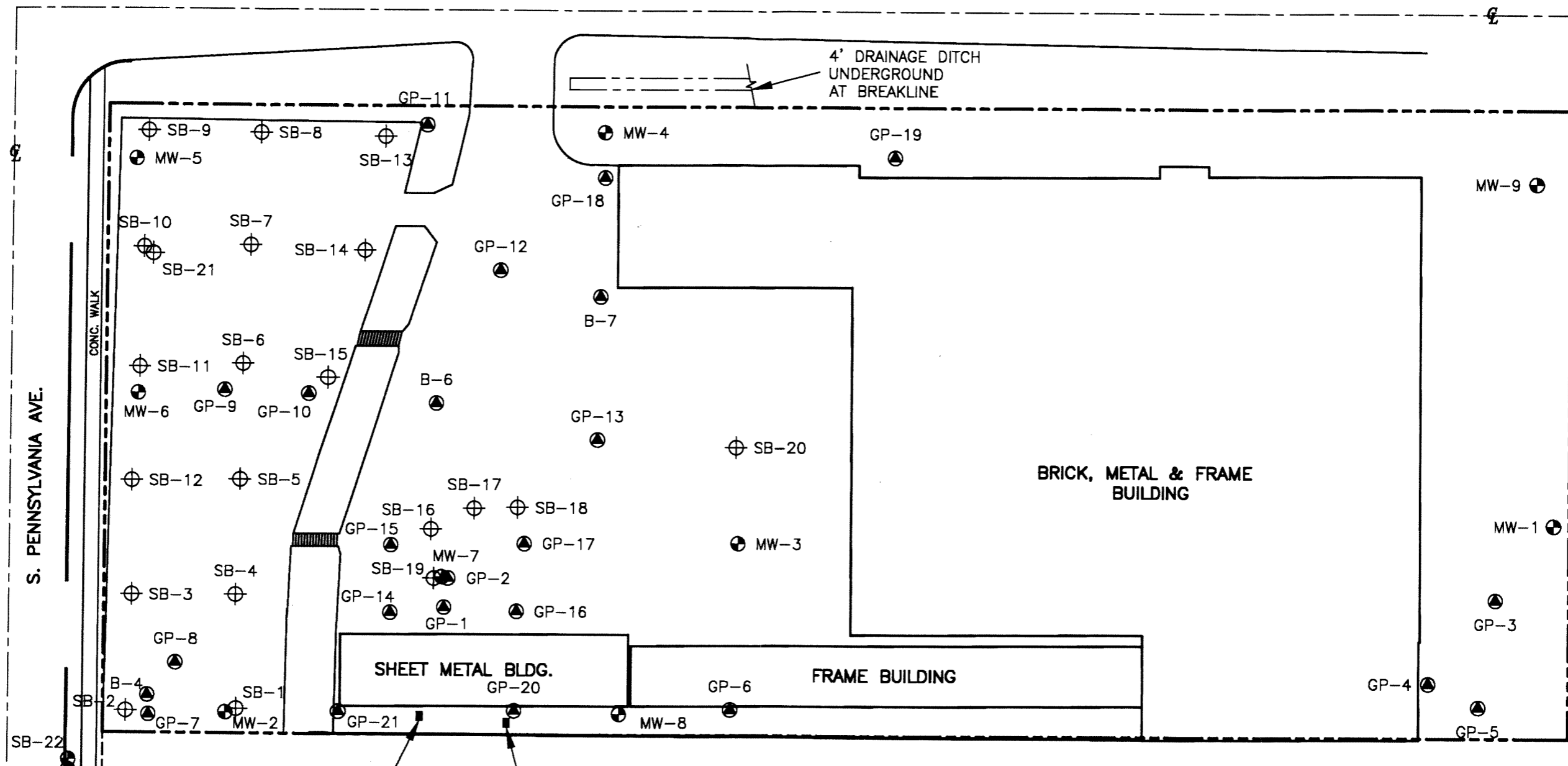
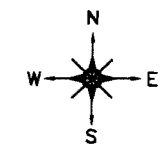
Facility/Project Name <u>Former Fitzinger Site</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>KPZ-2</u>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ "Long. _____ or _____	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID _____	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <u>12 27 2017</u> m m d d y y v v y
Type of Well Well Code _____ / _____	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>Adam Sweet</u> <u>Horizon</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 _____

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 _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>4</u> in.
C. Land surface elevation _____ ft. MSL	b. Length: <u>5</u> ft.
D. Surface seal, bottom _____ ft. MSL or <u>0.5</u> ft.	c. Material: Steel <input checked="" type="checkbox"/> 04 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 type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	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. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. <u>28.5</u> Ft ³ volume added for any of the above
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
17. Source of water (attach analysis, if required): <u>X</u>	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"/>
E. Bentonite seal, top _____ ft. MSL or <u>0.5</u> ft.	7. Fine sand material: Manufacturer, product name & mesh size a. <u>R.W. Sidley 400</u> <u>40</u>
F. Fine sand, top _____ ft. MSL or <u>22</u> ft.	b. Volume added <u>1.525</u> ft ³
G. Filter pack, top _____ ft. MSL or <u>23</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley</u> <u>20</u>
H. Screen joint, top _____ ft. MSL or <u>25</u> ft.	b. Volume added <u>2.650</u> ft ³
I. Well bottom _____ ft. MSL or <u>35</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or <u>35</u> ft.	10. Screen material: a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
K. Borehole, bottom _____ ft. MSL or <u>35</u> ft.	b. Manufacturer <u>Monoflex</u>
L. Borehole, diameter <u>8.375</u> in.	c. Slot size: <u>0.010</u> in.
M. O.D. well casing <u>2.375</u> in.	d. Slotted length: <u>10</u> ft.
N. I.D. well casing <u>2.000</u> in.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>

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

Signature _____ Firm KEY Engineering

EAST NORWICH AVE.



4' DRAINAGE DITCH UNDERGROUND AT BREAKLINE

S. PENNSYLVANIA AVE.

CONC. WALK

BRICK, METAL & FRAME BUILDING

SHEET METAL BLDG.

FRAME BUILDING

SYMBOL LEGEND	
■	TRENCH SAMPLE
●	GEOPROBE BORING
⊕	SOIL BORING
⊙	MONITORING WELL
---	PROPERTY LINE

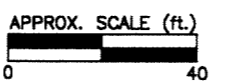
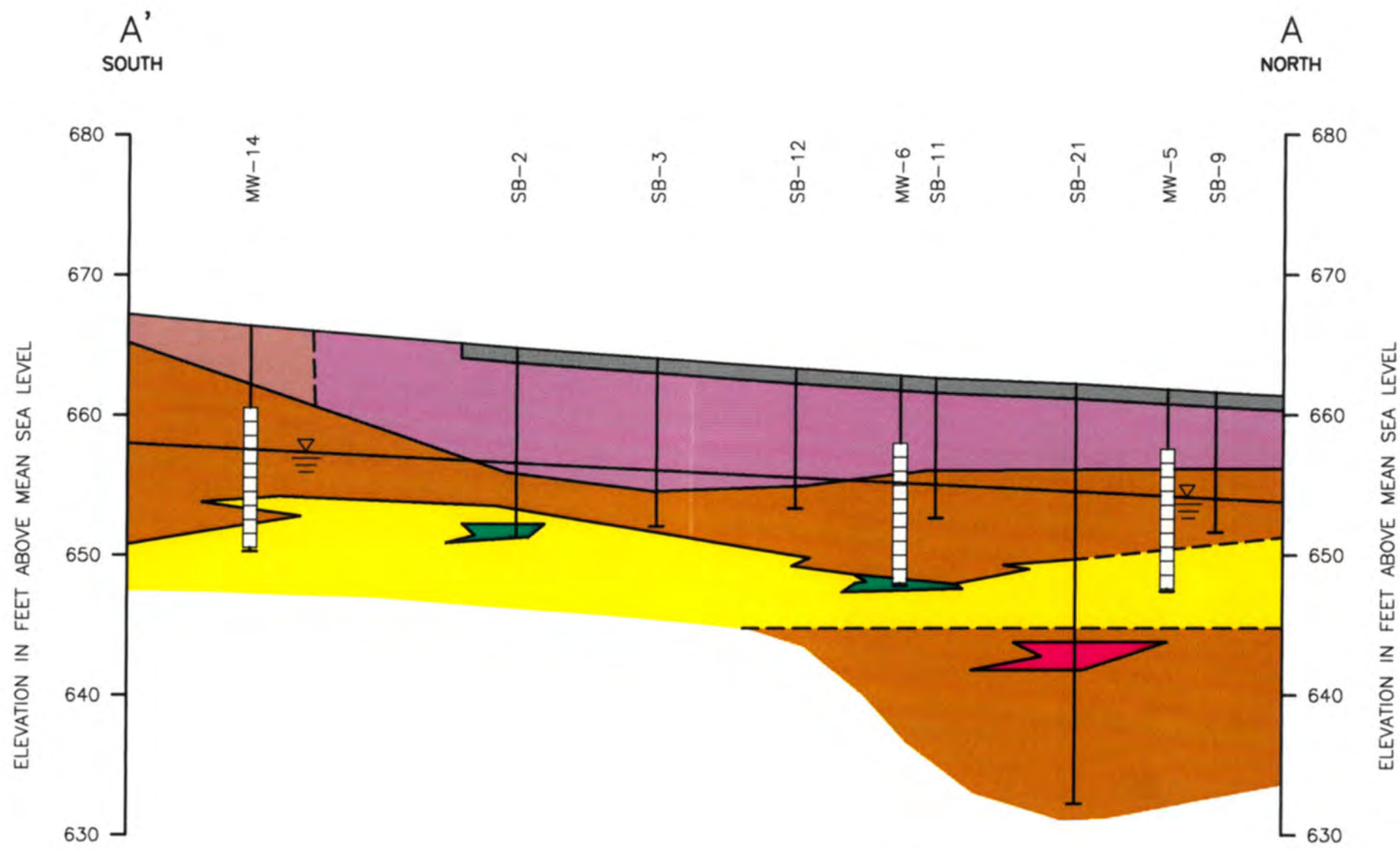


FIGURE 3.1
SOIL BORING AND
MONITORING WELL LOCATION MAP
D-F INCORPORATED
ST. FRANCIS, WISCONSIN

S:\CPFILES\PAC\96351\03\ACAD\REPORT\FIG3-1.DWG OCTOBER 09, 1998 9:25AM



S:\CPFILES\PA\96351\03\ACAD\REPORT\FIG4-1.DWG OCTOBER 09, 1998 9:25AM
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NOTE: WATER ELEVATIONS FROM SEPTEMBER 11, 1997

SYMBOL LEGEND	
	WATER TABLE
	CONTACT
	INFERRED CONTACT
	BORING
	SCREENED INTERVAL
	BOTTOM OF BORING
	ASPHALT/CONCRETE
	UPPER PARKING LOT FILL
	ROAD BASE AND FILL
	CLAYEY SILT
	SILTY CLAY WITH SAND SEAMS
	SANDY CLAY
	SAND AND GRAVELLY SAND

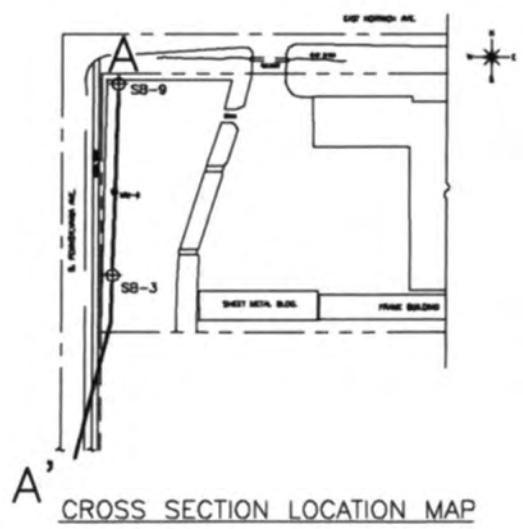
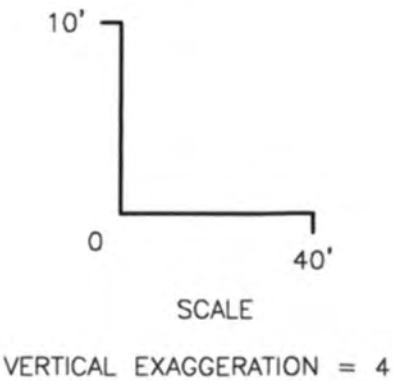
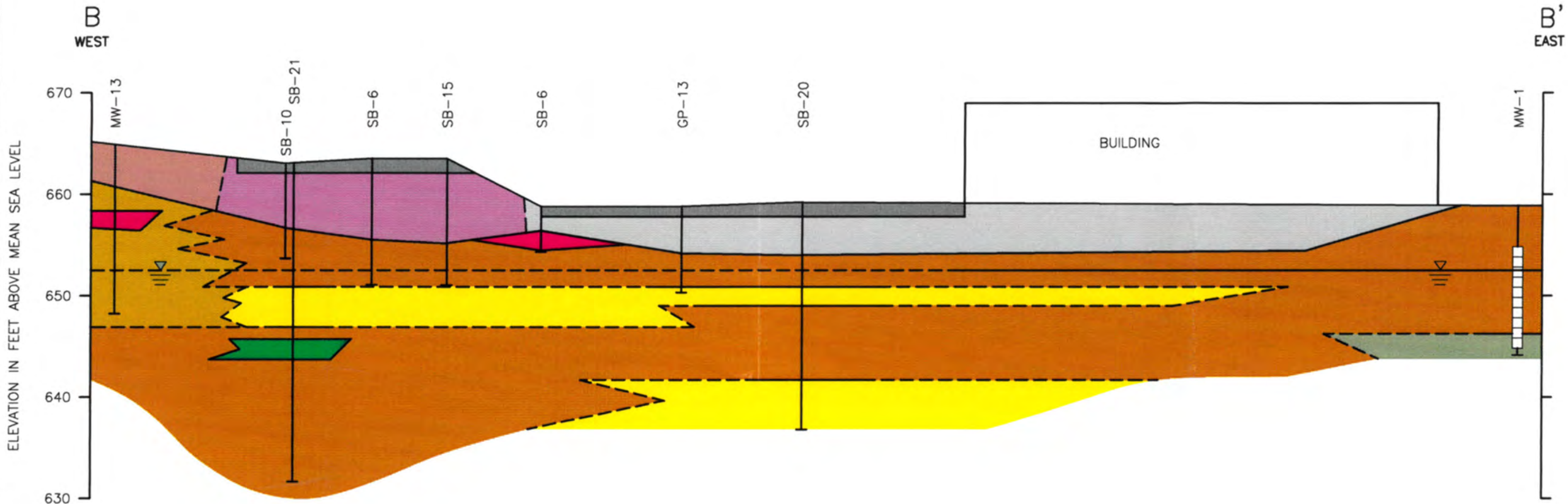


FIGURE 4.1
GEOLOGIC CROSS SECTION A-A'
D-F INCORPORATED
ST. FRANCIS, WI



S:\CPFILES\PAC\96351\03\ACAD\REPORT\FIG4-2.DWG OCTOBER 09, 1998 9:25AM
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SYMBOL LEGEND	
	UPPER PARKING LOT FILL
	ROAD BASE & FILL
	ASPHALT/ CONCRETE
	LOWER PARKING LOT FILL
	CLAY
	CLAYEY SILT
	SILTY CLAY
	SANDY CLAY
	SILTY SAND
	SAND AND GRAVELLY SAND
	WATER TABLE
	CONTACT
	INFERRED CONTACT
	INFERRED WATER TABLE
	BORING
	SCREENED INTERVAL
	BOTTOM OF BORING

NOTE: WATER ELEVATIONS FROM SEPTEMBER 11, 1997

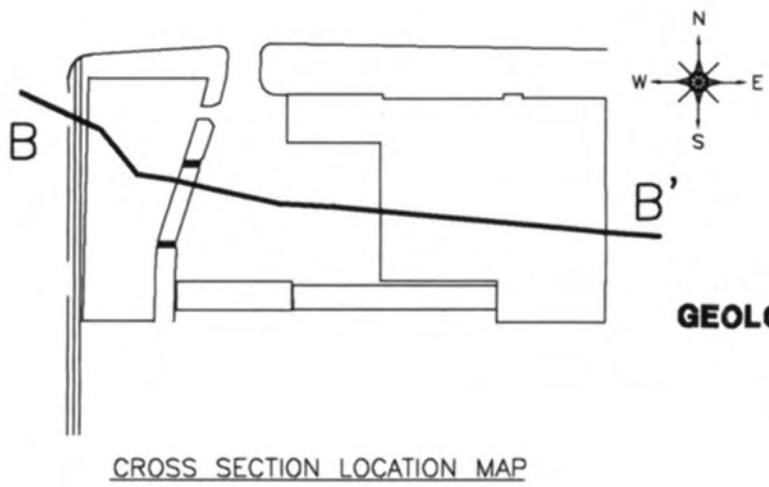
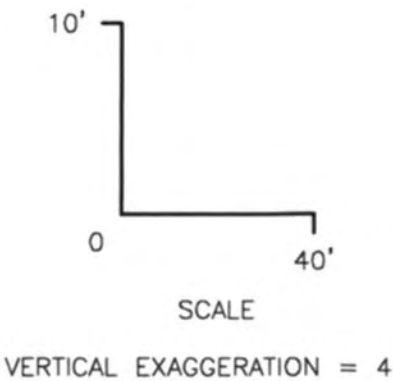
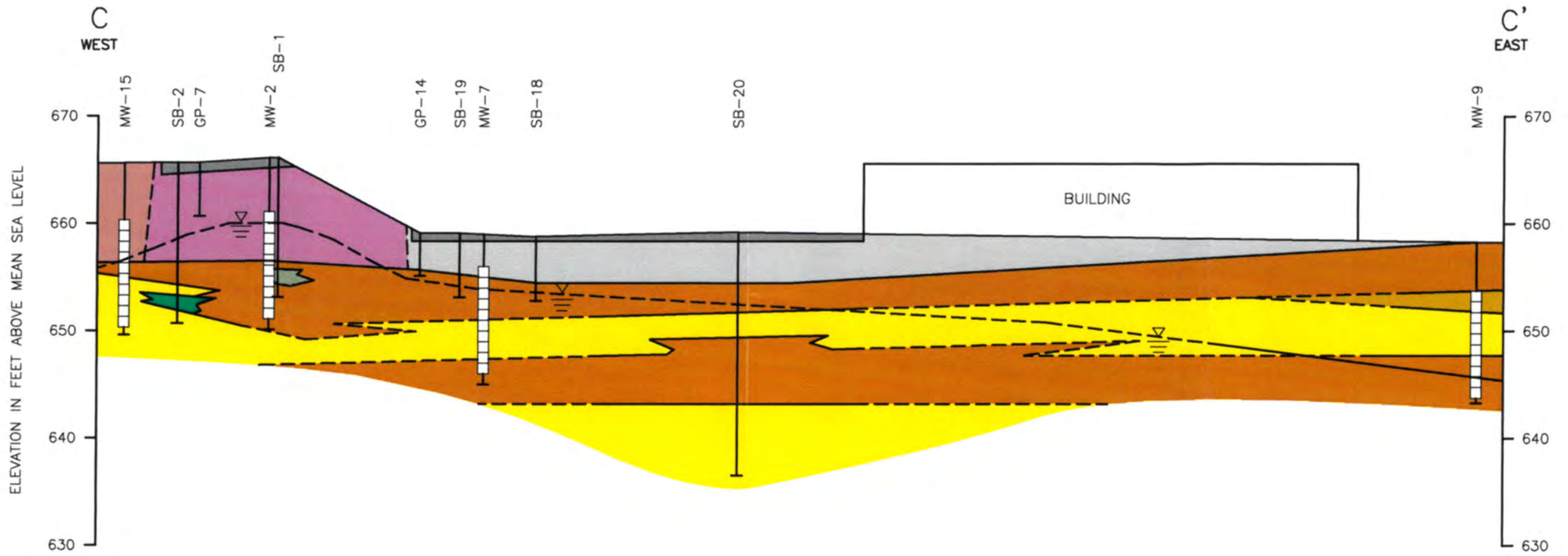


FIGURE 4-2
GEOLOGIC CROSS SECTION B-B'
D-F INCORPORATED
ST. FRANCIS, WI



S:\CPFILES\PAC\96351\03\ACAD\REPORT\FIG4-3.DWG OCTOBER 09, 1998 9:25AM
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SYMBOL LEGEND	
	UPPER PARKING LOT FILL
	ROAD BASE & FILL
	ASPHALT/ CONCRETE
	LOWER PARKING LOT FILL
	CLAY
	CLAYEY SILT
	SILTY CLAY WITH SAND SEAMS
	SANDY CLAY
	SILTY SAND
	SAND AND GRAVELLY SAND
	CONTACT
	INFERRED CONTACT
	INFERRED WATER TABLE
	BORING
	SCREENED INTERVAL
	BOTTOM OF BORING
	WATER TABLE

NOTE: WATER ELEVATIONS FROM SEPTEMBER 11, 1997

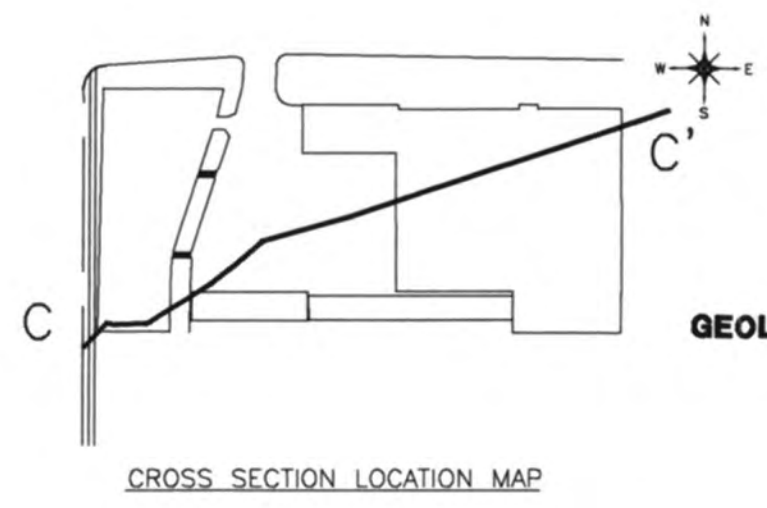
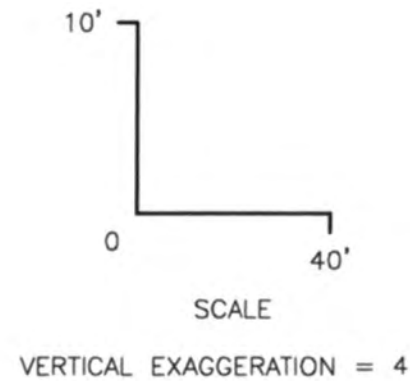


FIGURE 4-3
GEOLOGIC CROSS SECTION C-C'
D-F INCORPORATED
ST. FRANCIS, WI

