Attachment S

Boring Logs and Abandonment Forms, Geotechnical Test Reports, and Test Pit Logs

S1 Direct Push Borings
S2 Test Pit Logs
S3 Rock Quality Borings
S4 Select Original Boring Logs

S4 Select Original Boring Logs

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dane County Landfill Site No. 3	N/A	MW-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Scott Klumb Soils and Engineering Services	2/16/2022	2/17/2022	HSA 4.25 ID

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
WA431	104	MW-4	895.7 Feet MSL	911.7 Feet MSL	8.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 377,202 N, 2,168,283 E S/C/N
NW 1/4 of NE 1/4 of Section 36, T 7 N, R 10 E
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
113450480	Dane	13	Madison

Sample Number and Type	Sample 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: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Lean clay with sand (CL), little sand, few silt, trace subangular gravel, brown (7.5YR 4/3), medium-plastic, moist, stiff ~~(glacio-lacustrine)~~ (Loess)	CL									
			2											
1 SS	24 14	3 3 4 5	3	Silty sand (SM) (Till)					2.75					
			4											
			5											
			6		SM ~~CL~~									
			7											
2 SS	24 24	2 2 2 2	8	~~medium stiff~~ Silty sand (SM) (Till)					1					
			9											
			10		SM									
			11											
			12											

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

Signature	Firm	Tel:
Logan Dwyer	Tetra Tech 8413 Excelsior Dr Suite 160 Madison, WI 53714	Fax:

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW-4 Use only as an attachment to Form 4400-122.

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: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13		CL									
3 SS	7 7	83 17	13	Highly Weathered Dolomite, fine grained, pale yellow (2.5YR 8/3), angular rock fragments, dry, very dense										
			14											
			15											
			16											
			17	Kh = 4.38E-02 cm/s	DOL									
4 SS	5 5	100	18	glauconite pockets, brownish yellow (10YR 6/6)										Water noticed in samples @ 18 feet
			19											
			20											
			21	Dolomite rock fragments, brownish yellow (10YR 6/6)	X X					8.6		NP	16.4	Lab classified as GM Screen zone MW-4 - Bag sample S6 - 21-23ft
			22											
5 SS	2 2	60	23											
			24											
			25											
			26											
			27											
6 SS	1 1	60	28	Highly Weathered Rock, very pale brown (10YR 7/3), medium to coarse to fine grained sand, some silt, wet, very dense	X X					9.5		NP	24	Lab classified as SM Bag sample S8 - 29-31ft (from auger flights)
			29											
			30											
			31	End of boring 31 feet - well set at 28ft (borehole bottom 880.7ft MSL)	X X									

SCS edits (in red) based on review of soil & rock samples 8/12/2023.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dane County Landfill Site No. 3	N/A	B-6A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Scott Klumb Soils and Engineering Services	2/28/2022	2/28/2022	HSA 4.25 ID

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	882.3 Feet MSL	8.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 379,080 N, 2,167,735 E S/C/N
SW 1/4 of SE 1/4 of Section 25, T 7 N, R 10 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
113450480	Dane	13	Madison

Sample Number and Type	Sample 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: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Blind drill to 25.4 feet - see boring log "B-6" for soil descriptions										
			2											
			3											
			4											
			5											
			6		SM									
			7											
			8											
			9											
			10											
			11											
			12											

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

Signature	Firm	Tel:
Logan Dwyer	Tetra Tech 8413 Excelsior Dr Suite 160 Madison, WI 53714	Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number B-6A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample 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: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13	Blind drill to 25.4 feet - see boring log "B-6" for soil descriptions *(continued)*	SM									
			14											
			15											
			16		SP									
			17											
			18											
			19	Highly weathered dolomite (~~Galena~~-Platteville Fm) Blind drilled.										
			20	Drilled until competent rock reached for rock core										
			21											
			22											
			23											
1 SS	1 0	60	24											
			25	(DL2)										
1 RC	120 49		26	Highly weathered dolomite, near vertical fractures, pale brown (10YR 6/3) (~~Galena~~-Platteville Fm) (Sinnipee Group,										HQ rock core run 1: RQD = 15% (very poor); recovery 41% FF= Indeterminable due to disaggregated sample
			27											
			28		DL2									
			29											
			30											
			31											
			32											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number B-6A Use only as an attachment to Form 4400-122. Page 3 of 3

Sample Number and Type	Sample 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: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			33		DL2									
			34											
			35											
2 SS	2.5 2.25	100		split spoon attempted given the highly weathered bedrock										
				End of boring 35.5 feet (bottom elevation 846.75ft MSL)										

SCS edits (in red) based on review of soil and rock samples 1/24/2023.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dane County Landfill Site No. 3	N/A	B-10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Scott Klumb Soils and Engineering Services	2/22/2022	2/22/2022	HSA 2.25 ID

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			875.9 Feet MSL	916.9 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 377,667 N, 2,169,421 E S/C/N
NE 1/4 of NE 1/4 of Section 36, T 7 N, R 10 E
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	County Code	Civil Town/City/ or Village
113450480	Dane	13	Madison

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: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 SS	24 18	3 4 6 7	1–12	Silty sand (SM), few gravel, yellowish brown (10YR 5/6), dry, loose (till)	SM									
2 SS	15 15	12 32 56	9–10	Silty sand (SM), little gravel, yellowish red (5YR 5/6), dry, dense (till)	SM									
			12	(Sinnipee Group)										Driller indicated hard drilling @ 11.5 feet

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

Signature Logan Dwyer Firm Tetra Tech
8413 Excelsior Dr Suite 160 Madison, WI 53714
Tel:
Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number B-10 Use only as an attachment to Form 4400-122.

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: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13	Highly weathered dolomite bedrock, silt with rock fragments, brownish yellow (10YR 6/6), dry (~~Galena-Platteville Fm~~) *(continued)* (Sinnipee Group). (DOL)										
3 SS	1 1	60	14	Very poor recovery.										
			15		DOL									
			16											
			17											Driller indicated softer drilling 17-18 feet, and harder drilling @ 18 feet
			18											
4 SS	1 1	60	19											
			20											
			21											
			22											
			23											
5 SS	1 1	60	24											
			25											
			26											
			27											
			28											
6 SS	2 2	75	29	Highly weathered shaly dolomite bedrock, gray (5Y 5/1), (~~Galena-Platteville Fm~~) (Ancell Group, Glenwood Formation) Shale "CL", laminated, plastic, moist.	SS1									
			30											
			31											
			32											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number B-10 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample 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: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33	Highly weathered shaly dolomite bedrock, gray (5Y 5/1), (~~Galena-Platteville Fm~~) *(continued)* (Glenwood Fm)	SS1									
7 SS	4 4	100	34	Weathered Sandstone, white (GLEY 1 8/N) (St. Peter Fm) Tonti Member, Ancell Group)										Driller indicated easier drilling @ 32.5 feet
			35											
			36											
			37		SS2									
			38											
8 SS	3.5 3.5	100	39	brownish yellow (10YR 6/8)										
			40											
			41				▼							
			42							8.6	23	15	22.7	Bag sample S9 - 41-43ft from auger flights
			43											
9 SS	2 2	100	44	sandstone and dolomite fragments, few sand, white (GLEY1 8/N), wet										Driller indicated hard drilling @ 43.5 feet
			45											
			46											
			47											
			48											
10 SS	3 3	100	49	Highly Weathered Dolomite, dolomite fragments, light brownish gray (10YR 6/2) (bedrock formation indeterminable due to limited sample)										
			50	LEAN CLAY/FAT CLAY "CL|CH", wea. residuum (Readstown Member) (SS3)	SS3									
			51											
			52											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number B-10 Use only as an attachment to Form 4400-122. Page 4 of 4

Sample									Soil Properties					
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	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			53	glauconite and dolomite fragments	SS3									
11 SS	1 1	60		white (GLEY1 8/N)										
				End of boring 53.6 feet (bottom elevation 863.3ft MSL)										
				SCS edits (in red) based on review of soil and rock samples 8/15/2023.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dane County Landfill No. 3 (Proposed) SCS#: 25222268.00		MW-109

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi, On-site Environmental Services, Inc. Scott Klumb, Soils & Engineering Services, Inc,	1/13/2023	2/1/2023	Direct Push; HSA, 4.25"

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
WD853	--	MW-109	--	896.0 Feet MSL	8.3"

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 379,244 N, 2,168,352 E S/C/N
NW 1/4 of SE 1/4 of Section 25, T 7 N, R 10 E
Lat ° ' "
Long ° ' "
Local Grid Location Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dane	13	City of Madison

Sample Number and Type	Sample 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: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			0	SILT (ML), very dark grayish brown (10YR 3/2), organic rich, with roots. (Topsoil)	ML									
			1	LEAN CLAY (CL), dark yellowish to brown (10YR 4/4), mostly silt with clay, soft, cohesive, uniform, massive, trace roots. (Loess)										
S1	51		2		CL				1.25 2.25 1.75	M				
			3											
			4	Dark reddish brown (5YR 3/4) sand and trace gravel. SILTY SAND (SM), yellowish red (5YR 4/6), mostly fine sand with medium to coarse sand and some clay, fine and coarse gravel (mostly dolomite), uniform, massive. (Till) (Holy Hill Formation, Horicon Member)										
			5											
			6											
			7											
S2	38		8		SM					M				
			9											
			10											
			11											
			12											
S3	32		13							M/W				
			14											
			15											

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

Signature	Adam Watson	Firm	SCS Engineers 2830 Dairy Drive, Madison, WI 53718

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW-109 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample 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: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			16											
			17											
S4	24		18		SM					M/W				
			19											
			20	LEAN CLAY (CL), dark brown (7.5YR 3/2), with sub-rounded gravel, soft. (Lake Sediment)	CL									
			21	SILTY SAND (SM), yellowish red (5YR 4/6), mostly fine sand with medium and coarse sand and some clay, fine and coarse gravel (mostly dolomite), uniform, massive. (Till) (Holy Hill Formation, Horicon Member)	SM									
			22											
S5	53		23							M/W				
			24											
			25	SILT (ML), yellowish red (5YR 4/6), with fine to coarse sand, trace clay and gravel (mostly dolomite), uniform, massive. (Till) (Holy Hill Formation, Horicon Member)	ML									
			26	SILTY SAND (SM), yellowish red (5YR 4/6), mostly fine sand with medium and coarse sand and some clay, fine and coarse gravel (mostly dolomite), uniform, massive. (Till) (Holy Hill Formation, Horicon Member)	SM									
			27											
S6	48		28	Kh = 2.09E-03 cm/s						M/W				Depth to water measured at 29' bgs.
			29	SILTY SAND WITH GRAVEL (SM), very pale brown (10YR 7/4), mostly fine sand with medium and coarse sand and fine to coarse gravel (mostly dolomite). (Weathered Dolomite Bedrock)	SM									
			30	At 28.5' to 30', SILTY SAND (SM) % g-s-si-cl= 25-62-6-7 NP										
			31											
			32											
			33		DL1									
			34	Blind drilled from 30' to 37' bgs. (See MW-109A log from 33.5' to 37' for lithology.)										
			35											
			36											
			37	End of boring at 37' bgs in dolomite. Refusal at 30' bgs with direct push sampler. Overdrilled with 4.25" HSA and set well to 20' bgs. Well dry at 20' bgs, Soils & Engineering Services removed well and redrilled to 37' bgs with 4.25" ID HSA on 2/1/2023. Well constructed from 36.3' bgs.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dane County Landfill No. 3 (Proposed) SCS#: 25222268.00		MW-109A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Scott Klumb Soils & Engineering Services, Inc.	2/13/2023	3/9/2023	HSA 4.25" & Air rotary

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
WD837	--	MW-109A	--	895.8 Feet MSL	8.3", 6"

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 379,247 N, 2,168,350 E S/C/N
NW 1/4 of SE 1/4 of Section 25, T 7 N, R 10 E
Lat ° ' "
Long ° ' "
Local Grid Location Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dane	13	City of Madison

Sample Number and Type	Sample 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: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Blind drilled to 33.5' bgs. (See MW-109 log from 0' to 30' bgs for lithology.) Cored hole from 33.5' to 71.5' bgs on 3/13/2023. Reamed hole to 6" diameter using air rotary on 3/9/2023 and constructed well MW-109A from 70.3' bgs.										
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											
			13											
			14											
			15											

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

Signature	Adam Watson	Firm	SCS Engineers 2830 Dairy Drive, Madison, WI 53718

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW-109A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample 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: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			16											
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30											
			31											
			32											
			33											
S1	1	60/1"	34	DOLOMITE (DL1), dark gray (10YR 4/1) and light yellowish brown (2.5Y 6/3), with trace very dark brown layers (10YR 2/2), massive to thinly wavy bedded, with round to oval vugs, chert, and dendrites, fossiliferous. (Sinnipee Group, Galena Formation)	DL1									
			35											
			36											
			37											
Run 1	70		38											FF=1.2/ft Percent Recovery=97% RQD=59%, fair
			39											
			40											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW-109A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample 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: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			40	DOLOMITE (DL1), dark gray (10YR 4/1) and light yellowish brown (2.5Y 6/3), with trace very dark brown layers (10YR 2/2), massive to thinly wavy bedded, with round to oval vugs, chert, and dendrites, fossiliferous. (Sinnipee Group, Galena Formation)										
			41											
			42											
			43											
			44											
			45											
Run 2	8		46											FF=2.99/ft Percent Recovery=6% RQD=0%, very poor
			47											
			48											
			49											
			50											
			51											
			52		DL1									
			53											
			54											
			55	At ~55' bgs, white (10YR 8/1) and light gray (7.5YR 7/1) interbedded layer of sandstone.										
Run 3	33		56											FF=1.82/ft Percent Recovery=28% RQD=0%, very poor Drill water is a light gray-white, cuttings are clayey/silty.
			57											
			58											
			59											
			60											
			61	From 61' to 71.5' bgs, gray (2.5Y 5/1) and white (10YR 8/1), mottled, thinly interbedded with shale.										
			62											
			63											
			64											
			65											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW-109A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample 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: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
Run 4	123		66 67 68 69 70 71	DOLOMITE (DL1), dark gray (10YR 4/1) and light yellowish brown (2.5Y 6/3), with trace very dark brown layers (10YR 2/2), massive to thinly wavy bedded, with round to oval vugs, chert, and dendrites, fossiliferous. (Sinnipee Group, Galena Formation) Kh = 1.37E-03 cm/s	DL1									FF=1.17/ft Percent Recovery=100% RQD=80%, good
				End of cored boring at 71.5' bgs in dolomite. Reamed hole to 6" diameter with air rotary to 71.5 feet bgs and constructed well from 70.3' bgs.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dane County Landfill No. 3 (Proposed) SCS#: 25222268.00		MW-120A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Scott Klumb Soils & Engineering Services, Inc.	2/7/2023	3/2/2023	HSA, 4.25" ID & Air Rotary

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
WD867	--	MW-120A	--	907.3 Feet MSL	8.3" & 6"

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 377,643 N, 2,167,838 E S / C / N
NW 1/4 of NE 1/4 of Section 36, T 7 N, R 10 E
Lat ° ' "
Long ° ' "
Local Grid Location Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dane	13	City of Madison

Sample Number and Type	Sample 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: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Blind drilled to 18.5' bgs. (See MW-120 log for lithology from 0' to 15' bgs.) Cored hole from 19.5' to 50.5' bgs on 2/7/2023. Reamed hole to 6" diameter with air rotary on 3/2/2023 and set well MW-120A to 49.3' bgs.										
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											
			13											
			14											
			15											

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

Signature	Firm
Jackie Rennebohm, PG	SCS Engineers 2830 Dairy Drive, Madison, WI 53718

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW-120A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample 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: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			16	Blind drilled to 18.5' bgs. (See MW-120 log for lithology from 0' to 15' bgs.) Cored hole from 19.5' to 50.5' bgs on 2/7/2023. Reamed hole to 6" diameter with air rotary on 3/2/2023 and set well MW-120A to 49.3' bgs.										
			17											
			18											
S1	2	11/2" 60/<1"	19	SILTY SAND WITH GRAVEL (SM), brownish yellow (10YR 6/8), fine to medium grained, with fine to coarse gravel (mostly dolomite), with green (glauconite) silt. (Weathered Dolomite Bedrock) (Prairie du Chien Group, Oneota Formation)	SM									
			20	DOLOMITE (DL4), light gray (10YR 7/1) and yellow (10YR 7/6), massive to planar bedded, sandy, with chert, trace glauconite, round to oval vugs, and dendrites. (Prairie du Chien Group, Oneota Formation)										
			21											
			22											
Run 1	41.5		23											FF=1.36/ft Percent Recovery=73.5% RQD=32.5%, poor Bit drop at 21' bgs.
			24											
			25											
			26											
			27	From 26.5' to 27.5' bgs, massive with abundant dendrites and no sand.										
Run 2	55		28											FF=0.87/ft Percent Recovery=89% RQD=48%, poor
			29											
			30		DL4									
			31											
			32											
			33											
			34											
Run 3	82		35											FF=1.17/ft Percent Recovery=85% RQD=63.5%, fair
			36											
			37											
			38											
			39											
			40											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW-120A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample 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: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
Run 4	83		41 42 43 44 45	DOLOMITE (DL4), light gray (10YR 7/1) and yellow (10YR 7/6), massive to planar bedded, sandy, with chert, trace glauconite, round to oval vugs, and dendrites. (Prairie du Chien Group, Oneota Formation)	DL4									FF=0.72/ft Percent Recovery=99% RQD=41%, poor
			46	Kh = 1.77E-04 cm/s										
Run 5	59		47 48 49 50											FF=0.81/ft Percent Recovery=98% RQD=61%, fair
				End of boring at 50.5' bgs in dolomite. Reamed hole to 6" diameter using air rotary and constructed well from 49.3' bgs.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dane County Landfill No. 3 (Proposed) SCS#: 25222268.00		B-219

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-site Environmental Services, Inc.	1/9/2023	1/9/2023	Direct Push 2" ID

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
--	--	--	--	901.8 Feet MSL	2.3"

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 378,846 N, 2,168,087 E S / C / N
SW 1/4 of SE 1/4 of Section 25, T 7 N, R 10 E
Lat ° ' "
Long ° ' "
Local Grid Location Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dane	13	City of Madison

Sample Number and Type	Sample 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: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			0	SILT (ML), very dark grayish brown (10YR 3/2), organic rich, with roots. (Topsoil)	ML									
S1	17		1	CLAYEY SAND (SC), very dark grayish brown (10YR 3/2) and dark yellowish brown (10YR 3/4), mostly silt with clay, some fine sand, soft, cohesive, uniform, massive, trace roots. (Loess)	SC				1.25 1.5	M				
			2	From 0.8' to 5', CLAYEY SAND (SC)										
			3	% g-s-si-cl = 4-59-18-19										
			4	LL=42, PI=23										
			5											
			6	SILTY SAND (SM), strong brown (7.5YR 4/6), mostly fine sand with medium to coarse sand and some clay, fine to coarse gravel (mostly dolomite), uniform, massive. (Till) (Holy Hill Formation, Horicon Member)	SM									
			7											
S2	26		8							M				
			9											
			10	Strong brown (7.5YR 4/6) and red (2.5YR 4/8).										
			11											
			12											
S3	41		13							M				
			14											
			15											

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

Signature	Adam Watson	Firm	SCS Engineers 2830 Dairy Drive, Madison, WI 53718

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number B-219 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample 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: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			16	SILTY SAND (SM), strong brown (7.5YR 5/6), mostly fine sand with medium to coarse sand and some clay, fine to coarse gravel (mostly dolomite), uniform, massive. (Till) (Holy Hill Formation, Horicon Member)										
			17											
S4	57		18							M				
			19											
			20											
			21											
			22											
S5	55		23		SM					M				
			24											
			25											
			26											
			27											
S6	58		28							W				
			29											
			30	CLAYEY SAND (SC), strong brown (7.5YR 5/6), mostly fine sand with medium to coarse sand, fine to coarse gravel (mostly dolomite), uniform, massive. (Till) (Holy Hill Formation, Horicon Member)	SC									
S7	36		31						2.0	W				Refusal due to bedrock. Dolomite bedrock at 35' bgs at boring B-219C.
			32	POORLY GRADED SAND WITH SILT (SP-SM), olive yellow (2.5Y 6/6), fine to medium sand. (Weathered Dolomite Bedrock)	SP-SM				2.5					
			33	Refusal, end of boring at 33' bgs in dolomite. Abandoned borehole with bentonite grout and bentonite chips.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dane County Landfill No. 3 (Proposed) SCS#: 25222268.00		B-219C

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
John Wagner Subsurface Exploration Services	2/7/2023	2/8/2023	HSA 4.25" ID & NQ Core

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
--	--	--	--	901.8 Feet MSL	8.3" & 3"

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 378,846 N, 2,168,087 E S / C / N
SW 1/4 of SE 1/4 of Section 25, T 7 N, R 10 E
Lat ° ' "
Long ° ' "
Local Grid Location
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dane	13	City of Madison

Sample Number and Type	Sample 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: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Blind drilled to 35' bgs. (See B-219 log for lithology from 0' to 33' bgs.)										
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											
			13											
			14											
			15											

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

Signature	Adam Watson	Firm	SCS Engineers 2830 Dairy Drive, Madison, WI 53718

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number B-219C Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			16	Blind drilled to 35' bgs. (See B-219 log for lithology from 0' to 33' bgs.)										
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30											
			31											
			32											
			33											
			34											
			35	DOLOMITE (DL2), brownish yellow (2.5Y 6/6), thinly bedded with shale and/or silt, bedding is wavy, with trace small round vugs and gray/green clay. (Sinnipee Group, Platteville Formation).										
			36											
			37											
Run 1	12		38		DL2									FF=3/ft Percent Recovery=20% RQD=18%, very poor
			39											
			40											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number B-219C Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample 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: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			41	DOLOMITE (DL2), brownish yellow (2.5Y 6/6), thinly bedded with shale and/or silt, bedding is wavy, with trace small round vugs and gray/green clay. (Sinnipee Group, Platteville Formation).										
			42											
Run 2	24		43											FF=3/ft Percent Recovery=40% RQD=9%, very poor
			44											
			45		DL2									
			46											
Run 3	12		47											FF=3/ft Percent Recovery=33% RQD=11%, very poor
			48	Dark gray (2.5Y 4/1) and dark grayish brown (2.5Y 4/2), massive to thinly bedded with shale, with trace small round vugs, fossiliferous.										
Run 4	24		49											FF=1.5/ft Percent Recovery=100% RQD=12.5%, very poor
			50	End of boring at 50' bgs in dolomite. Abandoned borehole with bentonite grout and bentonite chips.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dane County Landfill No. 3 (Proposed) SCS#: 25222268.00		B-224

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-site Environmental Services, Inc.	1/9/2023	1/9/2023	Direct Push 2" ID

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
--	--	--	900.9 Feet MSL	906.9 Feet MSL	2.3"

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 378,047 N, 2,167,866 E S/C/N
SW 1/4 of SE 1/4 of Section 25, T 7 N, R 10 E
Lat ° ' "
Long ° ' "
Local Grid Location Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dane	13	City of Madison

Sample Number and Type	Sample 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: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			0	SILT (ML), very dark grayish brown (10YR 3/2), organic rich, with roots. (Topsoil)	ML									
			1	LEAN CLAY (CL), olive brown (2.5Y 4/4), mostly silt with clay, some fine sand, soft to medium stiff, cohesive, uniform, massive, trace roots. (Loess)										
S1	31		2						1.0	M				
			3		CL									
			4											
			5											
			6	SILTY SAND (SM), olive brown (2.5Y 4/4) and reddish brown (5YR 5/4), mostly fine sand with medium to coarse sand and some clay, fine to coarse gravel (mostly dolomite), uniform, massive. (Till) (Holy Hill Formation, Horicon Member)										
S2	51		7							W				Measured depth to water at 6' bgs.
			8											
			9											
			10	Reddish yellow (5YR 6/6).	SM									
			11											
			12											
S3	60		13						2.25	W				
			14	CLAYEY SAND (SC), reddish yellow (5YR 6/6), mostly fine sand with medium to coarse sand and clay,	SC									
			15											

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

Signature	Adam Watson	Firm	SCS Engineers 2830 Dairy Drive, Madison, WI 53718

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number B-224 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample 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: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			16	fine to coarse gravel (mostly dolomite), uniform, massive. (Till) (Holy Hill Formation, Horicon Member)	SC									
S4	39		17						1.5 2.5	W				Refusal due to bedrock at 18.5' bgs. Dolomite bedrock at 22' bgs at boring B-224C.
			18	DOLOMITE (DOL), tan, white, and gray.										
				Refusal, end of boring at 18.5' bgs in dolomite. Abandoned borehole with bentonite grout and bentonite chips.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dane County Landfill No. 3 (Proposed) SCS#: 25222268.00		B-224C

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Scott Klumb Soils & Engineering Services, Inc.	2/8/2023	2/8/2023	HSA 4.25" ID & HQ Core

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
--	--	--	--	906.9 Feet MSL	8.3" & 3.8"

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 378,047 N, 2,167,866 E S / C / N
SW 1/4 of SE 1/4 of Section 25, T 7 N, R 10 E
Lat ° ' "
Long ° ' "
Local Grid Location Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dane	13	City of Madison

Sample Number and Type	Sample 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: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Blind drilled to 22' bgs. (See B-224 log for lithology from 0' to 18.5' bgs.)										
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											
			13											
			14											
			15											

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

Signature	Jackie Rennebohm, PG	Firm	SCS Engineers 2830 Dairy Drive, Madison, WI 53718

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number B-224C Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample 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: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			16	Blind drilled to 22' bgs. (See B-224 log for lithology from 0' to 18.5' bgs.)										
			17											
			18											
			19											
			20											
			21											
			22	DOLOMITE (DL3), very pale brown (10YR 7/3) and light gray (10YR 7/1), massive, sandy, with chert nodules, dendrites, round to oval vugs, and ooids. (Prairie du Chien Group, Shakopee Formation, Willow River Member).										
Run 1	30		23		DL3									FF=2/ft Percent Recovery=67% RQD=0%, very poor Drill bit jam.
			24											
			25											
			26	DOLOMITIC SANDSTONE (DL3), yellow (2.5Y 7/8) and white 2.5Y 8/1), fine to medium sand, poorly sorted, massive, cemented with dolomite and chert clasts, oolithic, with green (glauconite) clay. (Prairie du Chien Group, Shakopee Formation, New Richmond Member)										
Run 2	8		27											FF=7.5/ft Percent Recovery=36% RQD=0%, very poor
			28											
			29											
			30											
			31											
Run 3	13.5		32											Percent Recovery=7% RQD=0%, very poor
			33		DL3									
			34											
			35											
			36											
Run 4	4		37											Percent Recovery=13% RQD=0%, very poor
			38											
			39											
Run 5	8		40											Percent Recovery=31%

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number B-224C Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample 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: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			41											RQD=0%, very poor Drilling fluid is gray
Run 6	20		42	DOLOMITIC SANDSTONE (DL3), yellow (2.5Y 7/8) and white 2.5Y 8/1), fine to medium sand, poorly sorted, massive, cemented with dolomite and chert clasts, oolithic, with green (glauconite) clay. (Prairie du Chien Group, Shakopee Formation, New Richmond Member)	DL3									FF=4.8/ft Percent Recovery=43% RQD=0%, very poor
			43											
			44											
			45											
			46											
Run 7	6.5			End of boring at 46' bgs in dolomitic sandstone. Abandoned borehole with bentonite grout and bentonite chips.										FF=9/ft Percent Recovery=33% RQD=0%, very poor

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dane County Landfill No. 3 (Proposed) SCS#: 25222268.00		C-9

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Scott Klumb Soils and Engineering Services, Inc.	2/19/2024	2/19/2024	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
--	--	--	--	902.1 Feet MSL	2.3 in.

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 379,016 N, 2,168,386 E S/C/N
SW 1/4 of SE 1/4 of Section 25, T 7 N, R 10 E
Lat ° ' "
Long ° ' "
Local Grid Location Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dane	13	City of Madison

Sample Number and Type	Sample 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: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	ORGANIC SILT (OL), dark brown (10YR 3/3), organic rich, silty, with roots. (Topsoil)	OL									
			1	LEAN CLAY (CL), dark yellowish brown (10YR 3/4), mostly silt with clay, some fine sand, cohesive, massive. (Loess)										
S1	29		2		CL				2.5	M	42	24	65.9	Collected samples from: 0-0.25',0.25-2', 2-4', 4-7.5', 7.5-8'.
			3											
			4	Grades to CLAYEY SAND (Loess grading to till)										
			5											
S2	18		6		SC					M	24	13	33.3	P200, LL and PI taken from 2-4' and 4-7.5' respectively
			7											
			8	SILTY GRAVEL (GM), yellow (10YR 8/8), small to coarse angular gravel (mostly dolomite). (Weathered Dolomite Bedrock)	GM									
				End of boring at 8' bgs in weathered dolomite bedrock. Abandoned with bentonite chips.										

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

Signature	Ryan Matzuk	Firm	SCS Engineers 2830 Dairy Drive, Madison, WI 53718 608-224-2830

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wis., Dept. of Natural Resources SCS No. 25222268.00
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment
☒ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Dane		C-9

Latitude / Longitude (see instructions): ____ N ____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SW	¼ SE	Section	Township	Range
or Gov't Lot #		25	07 N	10 ☒ E ☐ W

Well Street Address: 7101 US Highway 12 & 18

Well City, Village or Town	Well ZIP Code
Madison, WI	53718

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	

2. Facility / Owner Information

Facility Name: Dane County Landfill No. 3 (Proposed)
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Dane County Department of Waste and Renewables
Present Well Owner: Dane County Department of Waste and Renewables
Mailing Address of Present Owner: 1919 Alliant Energy Center Way

City of Present Owner	State	ZIP Code
Madison	WI	53713

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/19/2024
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
8	NA

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.3	NA

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
NA	NA

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☒ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Bentonite Grout
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3\8" Bentonite Chips	Surface	8	15 lbs	dry mix

6. Comments

Boring C-9

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Soils & Engineering Services, Inc.		02/19/2024

Street or Route	Telephone Number
1102 Stewart St.	(608)274-7600

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Madison	WI	53171		02/19/2024

DNR Use Only

Date Received	Noted By

Comments: