### Appendix F

### Boring and Monitoring Well Logs and Forms, and Geotechnical Test Reports

- F1 Drilling Locations 1 through 11
- F2 Drilling Locations 105 through 126
- F3 Drilling Locations 212 through 233
- F4 Wisconsin Well Information Form 4400-089

MW-111

Route To:

Watershed/Wastewater Other Remediation/Redevelopment

Waste Management

SOIL BORING LOG INFORMATION Form 4400-122

Rev. 7-98

															Page	1 of 2
	y/Projec					License/Permit/Monitoring Number Boring Number										
				lo. 3 (Proposed)	SCS#: 25222268.00						~		MW-			
-		•	Name of	crew chief (first, last) an	id Firm	Date Dri	lling S	tarted		1	Date Drill	ing Con	npleted			ing Method
	tt Klu			Services, Inc.			1/24	5/2023	,			1/27/2	0022		HS	A, 4.25" ID
	$\frac{15 \propto E}{100}$			DNR Well ID No.	Common Well Name	Final Sta				Surf	ace Eleva		2023	Bc	rehole	Diameter
	-	D860	•		MW-111			Feet			883.9 I		ISL			.3"
Local Grid Origin (estimated: ) or Boring Location						`	51015			-		Grid Loo			0	
State				277 N, 2,169,693		La	ıt	°	<u> </u>		-	Feet	- 🗆 N	[		Feet 🗌 E
NE		of S	E 1/	4 of Section 25,	t 7 n, r 10 e	Lon	g	o	'		-					W
Facilit	y ID			County		County Co	ode			-	r Village					
				Dane		13		City	of M	ladiso	n					
San	nple											Soil	Prope	erties		_
	& in)	s	स्र	Soil/Ro	ock Description											
e	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	And Geo	ologic Origin For						Standard Penetration			>		ıts
Number and Type	gth /	۲ Cc	Ч Ц Ц	Eacl	n Major Unit		CS	Graphic Log		PID/FID	darc	Moisture Content	t d	Plasticity Index	0	RQD/ Comments
un', pu	cec	Blov	)ept				U S	Grap Log	Well		tan	Aois Cont	Liquid Limit	Plastic Index	P 200	RQD/ Comir
		H		ORGANIC SILT (OL),	very dark gravish brow	m		N 4. X	./							
			EL	(10YR 3/2), with roots.	(Topsoil)		OL	1, , , , , ,	•							
S1	16	$12 \\ 34$	-1	LEAN CLAY (CL), oli	we brown (2.5Y 4/3) w	ith					2.0	M				
		5.	E, I	rust/orange mottling, m cohesive, uniform, mas	sive, trace roots. (Loess	, ;)										
			$E^2$	, ,	, (	,										
			Ē_3													
_			$\mathbb{F}^{3}$													
			E_4	% g-s-si-cl = 0-4-56-40	1		CL									
S2	16	23 3	Ē								1.5	M				
		5	<b>-</b> 5													
			Ē													
			6	From 6' to 7' bgs, mottle	ad with grov orange of	ad yory										
	10	0.2	F	dark brown.	ed with gray, orange, a	id very										
S3	18	02 7	E-7	SILTY SAND (SM), ye	ellowish brown (10YR	5/6).					0.5	M+				Depth to water at ~7'bgs.
			Εl	fine sand with medium	to coarse sand with len	ses of										
			E-8	dense silt and clay and gravel. (Outwash) (Hol		ar fine										
			E l	grutten (o uttrach) (1101	,				Ε							
S4	18	43	<b>E</b> <sup>9</sup>						ΙE			W				
	_	2	E_10						ΙE							
_			E_11				SM		ΙE							
			E	More fine grained sand	and silt.											
S5	18	55 17	-12						ΙĒ			W				
			Ē	Kh = 2.23E-03  cm/s												
			-13													
Г			Εl	Alternating layers of fir	ne to medium orained se	and.			Η							
86	18	15 17	-14	more silt and fine round	l gravel.							W				
S6	10	17	E, I						ΙE			vv				
	1		-15					P-0-0-	-j- L	·						L

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

Signature (	Juppen	Jum Jackie Rennebohm, Po	Firm 3	SCS Engineers 2830 Dairy Drive, Madison, WI 53718

### SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring	g Numł	ber	MW	V-111 Use only as an attachment to Form 4400-1	22.								Page	2 of 2
San				,						Soil	Prope		<i>a</i> -	
	& (in)	ts	set	Soil/Rock Description										
r Se	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	And Geologic Origin For		0			Standard Penetration	8 -		ty		RQD/ Comments
Number and Type	ngth sove	w C	oth I	Each Major Unit	CS	Graphic Log	Well Diagram	PID/FID	ndar etra	Moisture Content	Liquid Limit	Plasticity Index	00	D/
Nun and	Ler Rec	Blo	Del		U S	Grap Log	Well Diagr	PIL	Stai Pen	Mo Coi	Liquic Limit	Plastic Index	P 200	RQ Coi
				SILTY SAND (SM), yellowish brown (10YR 5/6),	SM									
Г			-16	fine sand with medium to coarse sand with lenses of dense silt and clay and sub-round to sub-angular fine	SIM									
S7	18		17	\gravel. (Outwash) (Holy Hill Formation)						w				
5/	10	13 27 49	<u>17</u>	yellowish brown (10YR 5/6), fine sand to medium				1		~~~				
			-18	sand with sub-round gravel. (Outwash) (Holy Hill Formation)	SP-SM									
_				At 16 to 17.5', POORLY GRADED SAND WITH SILT (SP-SM)				1						
<b>C</b> 0	10	13 23	-19	% g-s-si-cl = 23-71-3-3										
S8	18	13 23 64/5"		NP POORLY GRADED SAND (SP), white (10YR 8/1)	SP					W				No Munsell soil or rock color matches the
			-20	and reddish yellow (7.5YR 7/8), fine to medium grained. (Weathered Sandstone Bedrock)				1						sample from 19.6' to 20' bgs.
				End of boring at 20' bgs in sandstone. Constructed										the Munsel color chosen is the
				well from 18.8' bgs.										closest option.
				1		I		I	I	I	I			

#### SCS # 25222268.00

7

	Watershed/Wastewater Remediation/Redevelopment	Waste Managemen X	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name Dane County Landfill Site No. 3 (Proposed)	Local Grid Location of Well	Nft. W.	Well Name MW-111
Facility License, Permit or Monitoring No.			Wis. Unique Well No. DNR Well ID No
Facility ID	St. Plane 379277.34 ft. N,	2169693.49 ft. E. S/C/N	Date Well Installed $01 / 27 / 2023$ m m d d y y y y
Type of Well Well Code <u>MW</u> / 11	Section Location of Waste/Sour <u>NE</u> 1/4 of <u>SE</u> 1/4 of Sec.	<u>7 N, R.</u> <u>10 ⊡ </u> W	Well Installed By: Name (first, last) and Firm Scott Klumb
Distance from Waste/ Enf. Stds.	Location of Well Relative to W u Upgradient s	sste/Source Gov. Lot Number Sidegradient	
Sourceft. Apply	d Downgradient n	Not Known	Soils & Engineering Services, Inc.
A. Protective pipe, top elevation	886.62 ft. MSL	1. Cap and lock?	nine:
B. Well casing, top elevation	886.59 ft. MSL	a. Inside diamete	
C. Land surface elevation	883.9 ft. MSL	b. Length:	_ <u>_</u> 5 <sub>ft.</sub>
D. Surface seal, bottom $\_$ $\_$ $\frac{879.9}{1.0}$ ft. M	SL or4 ft.	c. Material:	Steel 🗙 04
12. USCS classification of soil near scree	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	d. Additional pro	Other ∐
	sw□ sp ⊠  \	If yes, describ	
		3. Surface scal:	Bentonite 30
Bedrock	Yes No	5, Burrace sear.	$Concrete \square 01$
	Yes No Mary 50	A Material between	Other
14. Drilling method used: Ro Hollow Stem A		4. Material Detweer	Bentonite 30
1997	Other	Filter Sand	Other 🗙 🏬
		5. Annular space se	al: a. Granular/Chipped Bentonite 🗙 33
15. Drilling fiuid used: Water 0 2 Drilling Mud 0 3	Air 0 1 None 99		nud weight Bentonite-sand slurry 35
			nud weight       Bentonite slurry       31         nite       Bentonite-cement grout       50
16. Drilling additives used?	Yes 🗙 No		<sup>3</sup> volume added for any of the above
Describe N/A		f. How installed	· · · · ·
17. Source of water (attach analysis, if req	wired):		Tremie pumped $\Box 02$
N/A		6. Bentonite seal:	Gravity 📈 08 a. Bentonite granules 🗌 33
		b. $\square/4$ in. $\boxtimes$	
E. Bentonite seal, top $\_$ $\_$ $\_$ $\frac{883.9}{9}$ ft. MS	SL or $\_\_\_\0^{\text{ft.}}$		Other
F. Fine sand, top 879.9 ft. MS	SL or 4 ft.		al: Manufacturer, product name & mesh size
877.4	SL or $6.5$ ft.	a. Red Flint #15	
		b. Volume added	ial: Manufacturer, product name & mesh size
H. Screen joint, top 875.4 ft. MS	SL or $8.5$ ft.	a	R.W. Sidley #40
I. Well bottom 865.1 ft. MS	SL or18.8 n.	b. Volume adde 9. Well casing:	Flush threaded PVC schedule 40 🔀 23
J. Filter pack, bottom 863.9 ft. MS	SL or <sup>20</sup> ft.		Flush threaded PVC schedule 80       24         Other
862.0		10. Screen material:	Sch. 40 PVC
	,L or	a. Screen type:	Factory cut $\bowtie$ 11 Continuous slot $\square$ 01
L. Borehole, diameter $-\frac{8.3}{-1}$ in.			Other
M. O.D. well casing $-2.38$ in.		b. Manufacturer c. Slot size: d. Slotted length	0. 01 in.
N. I.D. well casing $2.07$ in.		11. Backfill material	(below filter pack): None 🔀 14
I hereby certify that the information on this	form is true and correct to the h		Other 🗌 🔬
Signature	Firm		
Markan (markan har		GINEERS, 2830 Dairy Drive	, Madison, WI 53718

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.

SCS # 25222268.00

State of Wisconsin Department of Natural Resources

MONITORING	WELL DEVELOPMENT
Form 4400-113B	Rev. 7-98

Route to: Watershed/Wastewater	Waste Management 🔀					
Remediation/Redevelopment	Other					
Facility/Project Name County Name	Well Name					
Dane County Landfill No. 3 (Proposed)	Dane MW-111					
Facility License, Permit or Monitoring Number County Code	Wis. Unique Well Number DNR Well ID Number					
- <u>13</u>	<u>WD860</u>					
1. Can this well be purged dry?       Yes       No         2. Well development method       4 1         surged with bailer and bailed       4 1         surged with bailer and pumped       6 1         surged with block and bailed       4 2         surged with block, and pumped       6 2         surged with block, bailed and pumped       7 0         compressed air       2 0         bailed only       1 0         pumped only       5 1         pumped slowly       5 0         Other       9	Before Development       After Development         11. Depth to Water       a					
3. Time spent developing well140 min.	(Describe) (Describe)					
4. Depth of well (from top of well casisng) $-\frac{20}{20} \cdot \frac{8}{8}$ ft.	medium brown medium brown no odor no odor					
5. Inside diameter of well $-\frac{2}{2} \cdot \frac{07}{2}$ in.						
6. Volume of water in filter pack and well casing17_gal.	Fill in if drilling fluids were used and well is at solid waste facility:					
7. Volume of water removed from well $123 00$ gal.						
8. Volume of water added (if any)0_gal.	14. Total suspended mg/l 724 . 0 mg/l solids					
9. Source of water added NA	15. COD mg/l mg/l					
<u> </u>	16. Well developed by: Name (first, last) and Firm					
10. Analysis performed on water added? Yes X No	First Name: Bri Last Name: Salome					
(If yes, attach results)	Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718					
17. Additional comments on development:	* 8					

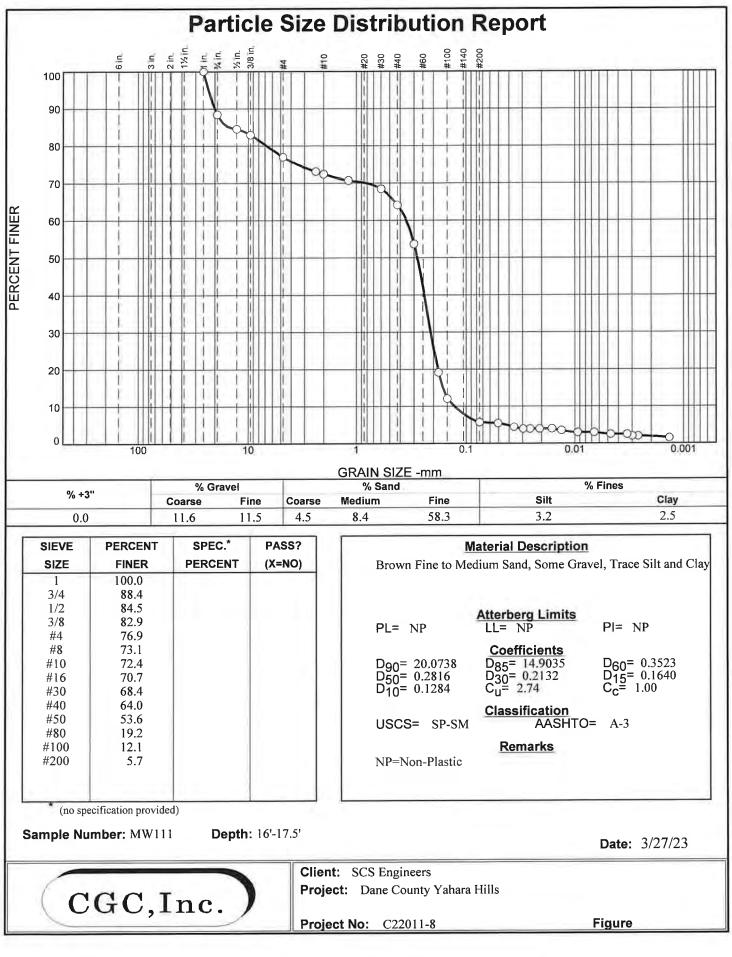
- Surged and purged for 30 minutes. ending DTW: 8.49ft; purged 11 gallons

- Pumped with monsoon at rate of 4:30min/bucket; 0.9min/gallon

10 well volumes = 112 gallons Total purge volume 123 gallons

Name and Address of Facility Contact /Owner/Responsible Party         First         Name:         Allison         Last         Name:         Rathsack	I hereby certify that the above information is true and correct to the best of my knowledge.
Facility/Firm:	Signature: Bitra ultr
Street: 1919 Alliant Energy Center Way	Print Name: Bri Salome
City/State/Zip: Madison, WI 53713	Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

NOTE: See instructions for more information including a list of county codes and well type codes.



Checked By: KJS

ST-111

State of Wisconsin Department of Natural Resources

Route To:

Watershed/Wastewater Remediation/Redevelopment

Waste Management Other

SOIL BORING LOG INFORMATION Form 4400-122

Rev. 7-98

<b>F</b> 114	/ <b>D</b> ·	( NI			<b>T</b> • 7	<b>D</b>		· .	r 1		D .	<u>)</u>		Page	1 of 1	
Facilit				In 2 (Duran agod)	SCS# 252222(8.00	License/	Permit/	Monito	ring N	lumber		Boring	ST-1			
Boring	e Cour	$\frac{110 \text{ La}}{1 \text{ By:}}$	Name of	Vo. 3 (Proposed) f crew chief (first, last) and	SCS#: 25222268.00	Date Dri	Iling St	arted		D	ate Drill				Dril	ling Method
	tt Klu	-				Date Di	g					ing con				ing menou
Soil	s & E	ngine	ering S	Services, Inc.			3/8/	2023			3/8/2023				SS	SA
WI Un	ique W	ell No		DNR Well ID No.	Common Well Name					ce Eleva			Bo		Diameter	
<u> </u>	0.10										383.91				4	.3"
Local State		ngin		timated:  ) or Bor 277 N, 2,169,693		La	ıt	0	'	"	Local C					
NE $1/4$ of SE $1/4$ of Section 25, T 7 N, R 10 E					Lon		0	,			Feet				Feet 🗌 E	
Facilit		01 D.		County		County Co		Civil T	own/C	City/ or	Village					
-				Dane		13		City	of Ma	adisor	1					
San	nple											Soil	Prope	erties		
	& in)	s	t l	Soil/Re	ock Description											
o	Att. ed (	ount	l Fee	And Ge	ologic Origin For						_ u			>		ıts
Typ	gth / over	v Cc	th Ir	Eac	h Major Unit		CS	ohic		HD	darc	sture	ii d	ticit. x	0	)/
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet				U S	Graphic Log	Well	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			Ē	Blind drilled to 3' bgs.												
				(See MW-111 log for l	ithology from 0' to 20' ł	ogs.)										
			E_2													
			E I													
Г			-3	LEAN CLAY, brown (	10YR 4/4), black to gr	ay										
			E, I	mottling, mostly silt wi cohesive, uniform, and	th clay, some fine sand	, soft,										
S1	16			At 3' to 5', LEAN CLA	Y(CL)		CL									Shelby tube sample from 3-5'
			E_5	% g-s-si-cl = $0-4-56-40$ \sqrt{LL}=44, PI=21	)	Г			4							bgs.
				End of boring at 5' bgs	in loess.	/										
				Abandoned boring with	h bentonite chips.											
<u> </u>							<u> </u>		1			1	1			<u> </u>

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

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

	Dept.	of Natural	Resources	SCS No.	25222268.	00
dnr.wi.gov		1				

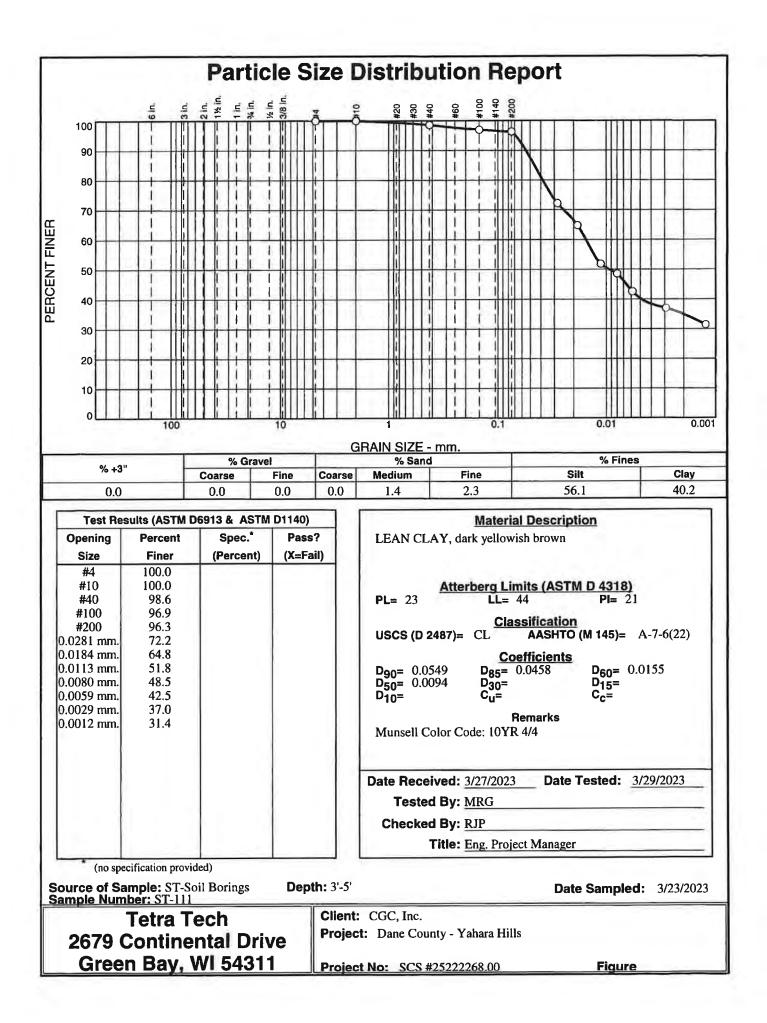
#### Well / Drillhole / Borehole Filling & Sealing Report Page 1 of 2

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.

	R	toute to DNR Bureau:							
Verification Only of Fill and Se	al	Drinking Water		Watershed/V	Vastewater	Remedi	ation/Redeve	lopment	
		X Waste Manageme	nt 🗌	Other:					
1. Well Location Information				/ Owner In	formation				
County WI Unique Well Removed Well	# of Hid	cap #	Facility Nam						
Dane		ST-111			II No.3 (Proposed	(t			
Latitude / Longitude (see instructions)	Format Co	ode Method Code	Facility ID (F	ID or PWS)					
N		GPS008	License/Permit/Monitoring #						
W		M OTH001	Electise/i er	moniorino	, <del>п</del>				
<sup>1</sup> / <sub>4</sub> / <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> SE Section	n Towns	ship Range 🗙 E	Original We						
or Gov't Lot # 25	5	7 <sub>N</sub> 10  W			tment of Waste a	and Rene	wables		
Well Street Address			Present Well Owner Dane County Department of Waste and Renewables						
7101 US Highway 12 & 18						ind Rene	wables		
Well City, Village or Town		Well ZIP Code	-	ress of Prese ont Energy (	Center Way				
Madison, WI		53718	City of Prese		Senter Way	State	ZIP Code		
Subdivision Name		Lot #	Madison			WI	53713		
Reason for Removal from Service WIU	nique Well #	of Replacement Well		Liner, Scre	en, Casing & Sea	a			
Temporary Borehole		of Replacement Weil		d piping remo			Yes 🗌 No	X N/A	
3. Filled & Sealed Well / Drillhole / E	Borehole In	formation	Liner(s) re	emoved?			Yes 🗌 No	X N/A	
		Date (mm/dd/yyyy)	Liner(s) p	erforated?			Yes 🗌 No	X N/A	
	03/08	3/2023	Screen re				Yes No	X N/A	
Water Well		Report is available,	Casing le	ft in place?			Yes No	X N/A	
X Borehole / Drillhole please a				ng cut off belo			Yes 🗌 No	X N/A	
Construction Type:				ng material ris		X	Yes No	N/A	
X Drilled Driven (Sandpoin	t)	Dug		rial settle after			Yes 🗙 No	N/A	
Other (specify):				, was hole ret	opped? used, were they hyd		Yes 🗙 No	N/A	
Formation Type:		n oli v oo ole topi olionii oot meedaameeda			n safe source?	X	Yes 🗌 No	N/A	
X Unconsolidated Formation	Bedrock	< C	Required Me	ethod of Placi	ng Sealing Material				
Total Well Depth From Ground Surface (ft.)	Casing Dia	ameter (in.)		ctor Pipe-Gra		Pipe-Pump	ed		
5	NA	×		ned & Poured inite Chips)	Other (Exp	lain):			
Lower Drillhole Diameter (in.)	Casing De	pth (ft.)	Sealing Mat	erials					
4.3	NA		Neat C	Cement Grout		Bentonite	Grout		
Was well annular space grouted?	Yes 🗙	No Unknown	Sand-	Cement (Con	crete) Grout	Bentonite	Chips		
	oth to Water (			•	Monitoring Well Bore	•			
2 00 4 0.4 60 5	7.3	(leet)		nite Chips		onite - Ceme			
				lar Bentonite	No. Yards, Sacks	onite - Sand	Slurry Mix Rat	io or	
5. Material Used to Fill Well / Drillho	ble		From (ft.)	To (ft.)	Volume (circle		Mud We	eight	
3/8" Bentonite Chips			Surface	5	10 lbs		dry m	nix	
6. Comments									
Shelby Tube ST-111									

7. Supervision of Work				DNR Use Only			
Name of Person or Firm Doing Filling & Sealing	Licens	e #	Date of I	Filling & Sealing or Verification	Date Received	Noted By	
Soils & Engineering Services, Inc.			(mm/dd/	уууу) 03/08/2023			
Street or Route				Telephone Number	Comments		
1102 Stewart St.				(608)274-7600			
City	State	ZIP Code		Signature of Person Doing W	lork	Date Signed	
Madison	WI	537	713	Ch Ch		03/08/2023	



HYDRAULIC CONDUCTIV Rising tailwater method in a t ASTM D 5084, Method C (E)	riaxial permeameter	DN	Tetra Tech 2679 Continental Dr. Green Bay, WI. 54311
Project No. :	SCS # 25222268.00		
Client:	CGC, Inc.		
Project:	Dane Co. Yahara Hil	ls	
Sampled Date:	3/23/2023	Date Received:	3/27/2023
	SUMMA	ARY OF TEST RESULTS	
Sample No.:	ST-111		
Location:	S-1 @ 3.0'-5.0'		
Soil Classification:	LEAN CLAY, dark y	ellowish brown (CL)	
Munsell Color Code:	10YR 4/4		
	<u>INITI/</u>	<u>AL</u>	FINAL
DRY UNIT WEIGHT (pcf)	99.3		99.3
WATER CONTENT (%)	24.7		26.3
DIAMETER (cm)	7.18		7.18
LENGTH (cm)	8.11		8.11
HYDRAULIC GRADIENT (MAXIMUM)			11.3
PERCENT SATURATION	95.962	412	102.28739
HYDRAULIC CONDUCTIVITY k (cm/sec)			5.79E-07
Tested B	· Robert R. Rouse	Reviewed Ry	Child States

Tested By: Robert R. Rouse

Reviewed By: Cold futer Date Reviewed: 4/18/23

B-112

State of Wisconsin Department of Natural Resources

Route To:

Watershed/Wastewater Remediation/Redevelopment

Waste Management Other

SOIL BORING LOG INFORMATION Form 4400-122

Rev. 7-98

	/m •														Page	1 of 1
	y/Proje			AL 2 (D 1)		License/	Permit	/Monito	ring Nı	ımber			g Numb D 11			
				No. 3 (Proposed) f crew chief (first, last) a:	SCS#: 25222268.00	Date Dri	lling S	tarted		Da	te Drilli		B-11		Dri	lling Method
	tt Klu	•		l crew chief (113t, 14st) a		Dute Di	ning 5	unted			te Dilli	ing con	npietea			ISA, 4.25" II
			ering				1/23	3/2023				1/23/2	2023		11	.5/1, <del>1</del> .2 <i>5</i> 11
	nique W			DNR Well ID No.	Common Well Name	Final Sta	tic Wa	ter Leve	el	Surfac	e Eleva	tion		В		Diameter
						8	394.0	Feet ]	MSL		99.0 I				8	3.3"
Local State	Grid O	rigin		stimated:  ) or Bor ,724 N, 2,168,712		La	t	0	,	"	Local (					
State		of S		/4  of Section 25,	T7 N, R1 E	Long		• •	,	"		Feet	t 🗆 N 🗆 S			Feet $\square$ E W
Facilit		01 3	1 1	County	I/ N, KIE	County Co		Civil T	own/Ci	tv/ or	Village					
	5			Dane		13			of Ma	•	•					
Sar	nple											Soil	Prop	erties		
			<del></del>	Soil/R	ock Description											
Ð	Att. & ed (i	unts	Fee		ologic Origin For						E E					Its
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		h Major Unit		CS	ohic	Well Diagram	PID/FID	Standard Penetration	Moisture Content	id id	Plasticity Index	0	RQD/ Comments
, pun	Leng	Blov	Dept		5		C S	Graphic Log	Well Diagr	) Q	Stan	Mois Cont	Liquid Limit	Plastic Index	P 200	Com CO
<u> </u>				ORGANIC SILT (OL)	. verv dark gravish bro	wn		<u></u>				<u> </u>				
			Ē.	(10YR 3/2), with roots	. (Topsoil)		OL	1/ . 11/								
S1	13	23 35	1 				02	<u> \\ /</u>	4		1.75	M				
	-		-2	SILT (ML), brown (7.	5YR 4/3), with clay and	d some		- <u> '- -'</u> -'	· 							
			Ē	fine sand, soft, cohesiv	e, massive, with trace	roots.	ML									
			-3	(Loess)												
Γ	-			LEAN CLAY (CL), g	ay (10YR 5/1) with or	ange	CL		-							
S2	12	21	<u></u>	mottling, mostly silt w	th clay, some find sand	d, soft, ∫						W				Depth to water at
		1	-5	SILTY SAND (SM), y		R 5/6),										~4' bgs.
			E	mostly fine sand with i clay, and fine to coarse	nedium to coarse sand.	. some										
Г	-		-6	uniform, massive. (Til	) (Holy Hill Formation	, Horicon										
S3	18	12	E	Member)								W				
55	18	1 2 2	7 E									, w				
	1		E-8													
	-		Ē				SM									
		1/9" 1/9	<u>–</u> 9													
S4		1/9 1/9	E	Same as above.								W				
L	1		- 10													
			- - 11													
S5	1	1/1" 60/0	E-12						· ·			W				Sampled to 11', augered to
L	-		É													refusal at 13' bgs.
			-13	End of boring at 13' bg	s in dolomite due to re	fusal.		<u></u>	-							
				Abandoned borehole w	vith bentonite chips.											
I herel	by certi	fy that	the info	rmation on this form is tr	ue and correct to the be	est of my kr	nowled	lge.								

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

The original boring was folded into the final log for MW-112

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) Page 1 of 2

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.

				Route	to DNR Bureau:							
Verification Only	of Fill a	nd Sea	I		rinking Water		Watershed/W	/astewater	Remedi	iation/Redeve	lopment	
				Xv	Vaste Managemer	nt 🗌	Other:					
1. Well Location Inform	mation						/ Owner Inf	ormation				
County	WI Unique Removed		of	Hicap #		Facility Nam						
Dane	Removed	VVCII			B-112			I No.3 (Proposed	(t			
Latitude / Longitude (see in	structions)	)	Format	Code	Method Code	Facility ID (F	ID or PWS)					
		N		D	GPS008	Licence/Der	mit/Monitoring	. #				
		w		DM	SCR002	License/Per	mitriviornitoring	#				
1/4 / 1/4 SE 1/4 SE	5	Section	Tow	nship	Range X E	Original We						
or Gov't Lot #		25		7 N		Dane Co	unty Depar	tment of Waste a	and Rene	wables		
Well Street Address						Present We						
7101 US Highway 12	& 18							ment of Waste a	ind Rene	wables		
Well City, Village or Town					ZIP Code	-	ress of Preser					
Madison, WI				537	18		Int Energy C	Center Way	04.44			
Subdivision Name						City of Prese Madison	ent Owner	State ZIP Code WI 53713				
							inor Scro	en, Casing & Sea	A			
Reason for Removal from S	Service	WI Unio	que Wel	# of Re	placement Well		d piping remov			Yes No	X N/A	
Temporary Borehole						Liner(s) re				Yes No	X N/A	
3. Filled & Sealed Wel					(mm/dd/yyyy)	Liner(s) p	erforated?		E E	Yes No	X N/A	
Monitoring Well		iginal oo				Screen re	moved?			Yes No	X N/A	
Water Well     01/23/2023						Casing le	ft in place?			Yes 🗌 No	X N/A	
X Borehole / Drillhole		a Well C ease atta		on Repo	ort is available,	Was casi	ng cut off belo	w surface?		Yes 🗌 No	X N/A	
Construction Type:							ng material rise		X	Yes No	N/A	
X Drilled	Driven (Sar	ndpoint)		🗌 Dug	g		rial settle after			Yes 🗙 No	N/A	
Other (specify):							, was hole ret			Yes 🗙 No	N/A	
Formation Type:								used, were they hyd n safe source?		Yes 🗌 No	N/A	
X Unconsolidated Forma	ation	Γ	Bedro	ock		Required Me	ethod of Placin	ng Sealing Material				
Total Well Depth From Gro	und Surfac	ce (ft.)	Casing I	Diamete	r (in.)		ctor Pipe-Gra		Pipe-Pump	ed		
13			NA				ned & Poured nite Chips)	Other (Exp	lain):			
Lower Drillhole Diameter (in	n.)		Casing I	Depth (ft	t.)	Sealing Mat	erials					
8.3			NA				Cement Grout		Concrete			
Was well annular space gro	outed?		Yes	X No	Unknown		Cement (Cond		Bentonite			
If yes, to what depth (feet)?		Depth	to Wate				ng Wells and nite Chips	Monitoring Well Bore	e <i>holes Only</i> onite - Ceme			
NA		~4.8		. (			lar Bentonite					
5. Material Used to Fil							The Street Street	No. Yards, Sacks	onite - Sand Sealant or	Mix Rat	tio or	
3/8" Bentonite Chips	i wen / D	, minore				From (ft.) Surface	To (ft.) 13	Volume (circle 150 lbs		Mud We		
5/6 Demonite Chips						Surface	13			dry n	.IIX	
6. Comments												
Boring B-112												

7. Supervision of Work						DNR Use On	ly
Name of Person or Firm Doing Filling & Sealing	Licens	e #	Date of F	Filling & Sealing or Verification	Date Rece	ived Note	ed By
Subsurface Exploration Service			(mm/dd/)	(yyy) 01/23/2023			
Street or Route			-	Felephone Number	Comments	3	
2900 Lowell Dr.				(920)544-4226			
City	State	ZIP Code		Signature of Person Doing W	lork	Date S	igned
Green Bay	WI	543	311	a di	A	- C	1/23/2023

B-112B

State of Wisconsin Department of Natural Resources

Route To:

Watershed/Wastewater Remediation/Redevelopment

Waste Management Other

SOIL BORING LOG INFORMATION Form 4400-122

Rev. 7-98

																Page	1 of 2
	y/Projec						License/	Permit/	Monito	ring Nı	umber			Numb			
Dan	e Cour	nty La	ndfill l	No. 3 (Pro	posed)	SCS#: 25222268.00						~		<u>B-11</u>			
-		-	Name of	f crew chie	f (first, last) a	ind Firm	Date Dri	lling St	arted		Da	te Drilli	ng Cor	npleted			ing Method
Joh	n Wag	gner	nlarati	on Servi	225			2/0/	2023				2/10/2	0022			ore, NQ 2" ID
WIUr	ique W	ell No	piorati		ell ID No.	Common Well Name	Final Sta			-1	Surface	e Elevat		2023	Bo	rehole	Diameter
	iique ii		•				i indi Su			51		99.0 F		ISL			.0"
Local	Grid Or	igin	(es	stimated:	) or Bo	ring Location						Local C				0.	.0
State		C			2,168,712		La	ıt	°	<u> </u>				П N	I	]	Feet 🗌 E
SE	1/4	of S	E 1	/4 of Section	on 25,	t 7 n, r 10 e	Lon	g	°	<u> </u>	"						□ w
Facilit	y ID			Co	ounty		County Co		Civil T		-	-					
				D	Dane		13		City	of Ma	ıdison						
San	nple												Soil	Prope	erties		
	k n)				Soil/F	Rock Description											
0	att. 2 ed (i	unts	Fee			eologic Origin For						u					ts
) Spe	th A vere	Co.	l In			ch Major Unit		CS	hic	am	<b>A</b>	lard	ent	- <u></u>	city		nen
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		Eu	en mujor onne		S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
a Z	RR	В		DI: 1.1.	11 1 4 1 01 1				<u> </u>			PN	20		P 1	Р	N O
			-	(See MW	lled to 18' bg V-112 log for	s. lithology from 0'-16'.)											
			-1														
			E														
			$E^2$														
			F,														
			-3														
			-4														
			E														
			-5														
			E														
			-6														
			F														
			-7														
			E														
			E-8														
			<u> </u>														
			Ē														
			-10														
			E-11														
			5														
			-12														
			Ē														
			-13														
			⊨ ∣														
			-14														
			È														
			-15														

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

Adam Watson 2830 Dairy Drive, Madison, WI 53718	Signature	aft	Firm Adam Watson	SCS Engineers
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### SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number     B-112B     Use only as an attachment to Form 4400-122.       Sample     Soil/Rock Description     Soil/Rock Description       Soil ¥ ¥ ¥     Soil/Rock Description     Soil/Rock Description		2 of 2
Soil/Rock Description     Soil/Rock Description       Soil/Rock Description     Soil/Rock Description       And Geologic Origin For     Soil/Rock Description		-
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		
		ints
Each Major Unit Each Major Unit	x 00	D/
Nurr       and         Image: Start       Image: Start         Image:	P 2(	RQ
	Index       P 200	Casing installed from 0.5 to 15.5 feet below ground surface could not be pulled from the ground and was abandoned in place.

	Dept.	of Natural	Resources	SCS No.	25222268.	00
dnr.wi.gov		1				

#### Well / Drillhole / Borehole Filling & Sealing Report Page 1 of 2

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.

			Route	to DNR Bureau:								
Verification Only	of Fill and S	eal	D	rinking Water		Watershed/W	Vastewater	Remediat	tion/Redevelopmer	nt		
,			XW	/aste Managemei	nt 🗌	Other:						
1. Well Location Inform		•				/ Owner Int	formation					
County	WI Unique Wel Removed Well	l#of	Hicap #		Facility Nam				5×			
Dane	Kentoved vven		В	-112B		-	I No.3 (Proposed	<u>(ג</u>				
Latitude / Longitude (see in	structions)	Format		Method Code	Facility ID (F	ID or PWS)						
5				GPS008	Licence/Dem	a it /N / a m it a wine a	. 4					
	١		DM	SCR002	License/Peri	nit/Monitoring	1#		P.			
1/4 / 1/4 SE 1/4 SE	Sectio	n Tow	nship	Range 🗙 E	Original Well Owner							
or Gov't Lot #	2	5	7 N	10 🗌 w	Dane County Department of Waste and Renewables							
Well Street Address					Present Wel		ment of Monte o		ablaa			
7101 US Highway 12	& 18						ment of Waste a	na Renew	ables			
Well City, Village or Town	ZIP Code		ess of Preser	Center Way								
Madison, WI			537		City of Prese		Senter Way	State	ZIP Code			
Subdivision Name			Lot #		Madison				53713			
Reason for Removal from \$	Panvias IM/LI	Inique Mol	# of Po	placement Well		iner. Scree	en, Casing & Sea	*				
Temporary Borehole		Jilique vvei	# 01 Re	placement wen	and the second se	l piping remov		Ye		/A		
3. Filled & Sealed Wel	l / Drillhole / J	Borehole	Inform	ation	Liner(s) re	emoved?		Ye	es 🗌 No 🔀 N/	/A		
	(mm/dd/yyyy)	Liner(s) p	erforated?		Ye	es 🗌 No 🗙 N/	/A					
				3	Screen re	moved?		Ye	es 🗌 No 🗙 N/			
Water Well         If a Well Construction F					Casing let	ft in place?		Ye	es 🗌 No 🗙 N/	/A		
X Borehole / Drillhole	please		on Rope		Was casir	ng cut off belo	w surface?	Ye	es 🗌 No 🗙 N/	/A		
Construction Type:					Did sealin	g material rise	e to surface?	X Ye		/A		
X Drilled	Driven (Sandpoir	nt)	Dug	J		ial settle after		∐ Y∉		/A		
Other (specify):	-					was hole ret			es 🗙 No 🗌 N/	/A		
Formation Type:					with water	e chips were r from a know	used, were they hyd n safe source?	rated Ye	es 🗌 No 🗙 N/	/A		
X Unconsolidated Forma	ation	Bedro	ock		Required Me	thod of Placi	ng Sealing Material					
Total Well Depth From Gro	und Surface (ft.)	) Casing I	Diameter	r (in.)	Condu	ctor Pipe-Gra	vity 🗙 Conductor	Pipe-Pumper	d			
19		NA			Screen	ed & Poured nite Chips)	Other (Exp	lain):				
Lower Drillhole Diameter (in	n.)	Casing I	Depth (ft	.)	Sealing Mate	the second state of the se						
8.0		NA				ement Grout	×	Bentonite	Grout			
Was well annular space gro	uted?	Yes	× No	Unknown	Sand-0	Cement (Cond		Bentonite C	hips			
	L					3	Monitoring Well Bore	· · · · · · · · · · · · · · · · · · ·				
If yes, to what depth (feet)?	20	epth to Wate	er (leet)			nite Chips		nite - Cemen				
NA		4.8			Granul	ar Bentonite	And the second se	nite - Sand S	and the second se			
5. Material Used to Fil	l Well / Drillh	ole			From (ft.)	To (ft.)	No. Yards, Sacks S Volume (circle	sealant or one)	Mix Ratio or Mud Weight			
Bentonite Grout					Surface	19	30-gallor		2lbs/gal			
6. Comments												
Casing could not be re	etrieved from	borehole	betwe	en 0.6" and 1	5.5' bas an	d was abar	doned in place					
7. Supervision of Wor		_ 0. 511010				ubu	-	DNR Lise O	niv			

7. Supervision of work					DN	R Use Only
Name of Person or Firm Doing Filling & Sealing	Licens	License # Date of Filling & Sealing or Verification				Noted By
Subsurface Exploration Service			(mm/dd/y	ууу) 02/10/2023		
Street or Route			Т	elephone Number	Comments	
2900 Lowell Dr.			(	920)544-4226		
City	State	ZIP Code		Signature of Person Doing W	Vork	Date Signed
Green Bay	WI	543	11	a di	-	02/10/2023

B-112C

State of Wisconsin Department of Natural Resources

Route To:

Watershed/Wastewater Remediation/Redevelopment

Waste Management Other

SOIL BORING LOG INFORMATION Form 4400-122

Rev. 7-98

															Page	1 of 3	
		et Name				License/I	Permit/	Monito	ring Nı	umber			Numb				
Dan	e Cou	ty Lar	dfill N	No. 3 (Proposed) F crew chief (first, last) as	SCS#: 25222268.00	Dete Dei	11:			D	- D.:11:		B-11		D.:11		
			ame of	crew chief (first, last) a	nd Firm	Date Dri	lling Si	arted		Da	te Drilli	ng Con	npieted			ing Method SA 4.25" ID &	
Dyi Sub	an Ma	irtin Se Evn	lorati	on Services			2/14	/2023				2/14/2	0023				
WIUr	iaue W	ell No.	lorati	DNR Well ID No.	Common Well Name	Final Sta			el	2/14/2023 Surface Elevation				В	NQ Core Borehole Diameter		
	- 1								-		99.0 F		1SL			.3" & 3"	
Local	Grid Oı	igin	(es	timated: 🗌 ) or Bor	ring Location	1		0			Local C						
State	Plane		378,	724 N, 2,162,712	E S/C/N	La	t	_				Feet		I		Feet 🗌 E	
SE		of SE	L 1/	/4 of Section 25,	t 7 n, r 10 e	Long		°	<u> </u>	"			□ s			□ W	
Facilit	y ID			County		County Co	de	Civil T		•	•						
				Dane		13		City of	of Ma	dison							
San	nple											Soil	Prope	erties			
	a (i	~	tt.	Soil/R	lock Description												
0	Att ed (j	unt	Fee	And Ge	eologic Origin For						U			~		Its	
ber Jype	th A vere	°, Co	h In		ch Major Unit		CS	hic	ram	I E	lard trati	ent	p _	( ticity		mer	
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		in major entr		S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
2 8	ЦЖ	щ		Blind drilled to 15' bg							NG	20		L P			
			-1	(See MW-112 log for	lithology from 0-16' b	gs.)											
		-	-1														
		-															
			-2														
		-	-3														
		-	- 3														
		-	_4														
		-															
		-	-5														
		-															
		-	-6														
		-															
		-	-7														
			-8														
		-															
		-	- 9														
			-10														
		-	-11														
			- 1														
		-	-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
---

### SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

	g Numb	er	<b>B-1</b>	12C Use only as an attachment to Form 4400-1	22.	1	1	-							Page	2 of 3
San	nple									Sc	il	Pro	per	ties		4
	Length Att. & Recovered (in)	ıts	eet	Soil/Rock Description					_							
r pe	Att red	joun	n F	And Geologic Origin For	s	0	я		-d tion	2				£		ents
Tyj_	Length Att. & Recovered (in	Blow Counts	Depth In Feet	Each Major Unit	U	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture	Content	Liquid	H.	stici	00	D/
Number and Type	Ler Rec	Blo	Del		U S	Grap Log	Well Diag	PIC	Star	Mo	5 C	Liq		Plasticity Index	P 200	RQD/ Comments
			-	DOLOMITE (DL1), gray (2.5Y 5/1) with dark gray (2.5Y 4/1) and pale brown (2.5Y 7/4), mottled, thinly interbedded with shale, round to oval vugs, trace chert,			-									
			-16	fossiliferous. (Sinnipee Group, Galena Formation)		<u> </u>										
			E-17				1									
Run	63		F		DL1											FF=1.90/ft
1	0.5		-18													Percent Recovery=100%
			Ē 10				-									RQD=79%, good
			= 19			<u> </u>	-									
			E_20	DOLOMITE (DL2), dark brown (10YR 2/2) and light												
			Ē	gray (2.5Y $6/1$ ), massive to thinly bedded with shale and or silt, with round, oval, and elongated vugs, trace			1									
			-21	chert, fossiliferous. (Sinnipee Group, Platteville		<u> </u>	-									
			E	Formation)			1									
			E <sup>-22</sup>													
Run	60		E_23				-									FF=1.20/ft
2			E <sup>23</sup>				-									Percent Recovery=100% RQD=92.5%,
			-24				-									excellent
			E													
			-25	Same as above but more vallow/haise and loss thinks		'	1									
Γ			E	Same as above but more yellow/beige and less thinly bedded with shale/silt layers.												
			- <u>26</u>				-									
			E-27		DL2											
			Ę	Same as above but sandy.		-/	-									
Run	60		-28													FF=1.4/ft Percent
3			E			-/	-									ROD=59%, fair
			-29				1									1000 5576, tai
			E_30				-									
-			Ē													
			-31				-									
			Ē.													
			= 32	Brown clay ( $10$ YR $2/2$ ) at $31.75$ feet. Same as above but color change to gray ( $2.5$ Y $5/1$ ).		<u> </u>	-									
D	60		=33													PE 1.4/0
Run 4	00		E													FF=1.4/ft Percent Recovery=100%
			-34				]									RQD=76%, good
			E	SANDSTONE (SS1), very dark gray (2.5Y 3/1) to			-									
			=35	light gray (2.5Y 7/1) and gray (2.5Y 6/1), fine to medium grained, poorly sorted, cemented with												
			-36	dolomite, with thin wavy dark gray shalt and or silt		· · · · · ·										
			E	laminations, with sulfides (pyrite). (Ancell Group, Glenwood Formation)		· · · · · · · · · · · · · · · · · · ·										
			-37	,	SS1											
			Ē		331	· · · · · ·										
Run 5	55		E <sup>-38</sup>													FF=2.78/ft Percent
5			E-39													RQD=53.3%,
			E 39													fair
			E-40													
								•	•	•			'	'		

### SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring	g Numł	ber	<u>B-1</u>	12C Use only as an attachment to Form 4400	-122.								Page	3 of 3
San	nple									Soil	Prope	erties	_	
	. & (in)	tts	eet	Soil/Rock Description										
er pe	Attered	Cour	In F	And Geologic Origin For	S	0	В		rd	t re		ity		ents
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Each Major Unit	SC	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
Nu	Le Re	Bl	De		D	Grap	D 8	IId	Sts Pe	ΰĔ	ĒĒ	Pl <sup>s</sup> Inc	P	ы С Ж С
Run 6	38		41	SANDSTONE (SS1), very dark gray (2.5Y 3/1) to light gray (2.5Y 7/1) and gray (2.5Y 6/1), fine to medium grained, poorly sorted, cemented with dolomite, with thin wavy dark gray shalt and or silt laminations, with sulfides (pyrite). (Ancell Group, Glenwood Formation)	SS1									FF=1.26/ft Percent
														Recovery=100% RQD=99%,
			-43	End of boring at 43' bgs in sandstone. Abandoned borehole with bentonite grout and bentonite chips.										ecellent

	Dept.	of Natural	Resources	SCS No.	25222268.	00
dnr.wi.gov		1				

#### Well / Drillhole / Borehole Filling & Sealing Report Page 1 of 2

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.

Route to DNR Bureau:						
Drinking Water		Watershed/W	/astewater	Remedia	ation/Redeve	elopment
X Waste Managemen	ıt 🗌	Other:				
	2. Facility	/ Owner Inf	ormation			
Hicap #	Facility Name	е			10	
B-112C		-	I No.3 (Proposed	)		
	Facility ID (F	ID or PWS)				
D GPS008						
DDM OTH001	License/Pern	nit/Monitoring	#			
nship Range 🗙 E	Original Well	l Owner				
	Dane Cou	unty Depart	tment of Waste a	nd Rene	wables	
1				nd Renev	wables	
Well ZIP Code	-				,	
53718			Center Way	•		
Lot #		ent Owner		State		
				÷		
# of Replacement Well						
			/ed?			
Information						لنسنا
n Date (mm/dd/yyyy)	1			Ξ.		
14/2023						
on Report is available,						
		-				
Dug						
	If bentonit	te chips were	used, were they hydr	beter	a second s	N/A
ick	Land Total Contraction					
				Pipe-Pump	ed	
	Screen	ned & Poured				
Depth (ft.)						
optin (iii.)			X	Bentonite	Grout	
X No Unknown			·			
er (feet)	Benton	nite Chips	Benton	nite - Ceme	ent Grout	
	Granula	ar Bentonite	Language of the local division of the local		International Advancement of the owner	
	From (ft.)	To (ft.)	No. Yards, Sacks S Volume (circle	ealant or one)	Mix Rat Mud W	
	Surface	1	25 lbs		dry n	
	1	43	30-gallon	S	2lbs/	gal
		2				
	States and the	Second Second				STATISTICS.
			-			
ense # Date of Fil	ling & Sealing	or Verificatio				
	□ Drinking Water   ↓ Waste Managemen   Hicap # B-112C   Code Method Code   □ □   B-112C Code   Code Method Code   □ □   B-112C Code   Code □   □ □   □ □   □ □   □ □   □ 0   □ Well ZIP Code   53718 □   □ Well ZIP Code   53718 □   □ w   Information n Date (mm/dd/yyyy)  14/2023 on Report is available,    □ Dug   ck   Diameter (in.)   ○ Poth (ft.)   An one of the placement well	□       Drinking Water       □         Waste Management       □         Hicap #       Facility Nam Dane Cou Facility ID (F acility ID (F Code         B-112C       Facility ID (F Facility ID (F Code         Code       Method Code D GPS008         DD       GPS002         License/Perr         nbhip       Range         T       N         10       W         Present Well         Dane Cou         Well ZIP Code         53718         Lot #         Wadison         # of Replacement Well         Pump and Liner(s) re         Madison         # of Replacement Well         Pump and Liner(s) re         Liner(s) pace         Casing lef         Was casin         Did sealin         Did mater         If yes,         If bentonit         with water         ck         Dameter (in.)         Screer         Depth (ft.)         Sealing Mattor         Mattor         Mattor         Granul         For Monitorin         Granul	□ Drinking Water       ○ Watershed/W         Waste Management       ○ Other:         □ Code       Method Code         □ □ □ □ □ □ □ □       □ GPS008         □ □ Code       □ GPS008         □ □ Code       □ GPS008         □ □ OTH001       □ Criginal Well Owner         □ Dane County Depart         □ Dane County Code         □ Dane Coun	□ Drinking Water       □ Watershed/Wastewater         Name       □ Other:         □ Icap #       Facility / Owner Information         B-112C       Facility Name         □ GPS008       □ GPS008         □ D       □ GPS008         □ D       □ OTH001         □ D       □ OTH001         □ D       □ OTH001         □ D       □ O         □ D       □ O         □ O       □ O         □ D       □ O         □ O       □ O         □ O       □ O         □ D       □ O         □ O       □ O         □ O       □ O         □ O       □ O         □ O       □ O         □ O       □ O         □ O       □ O         □ O       □ O         □ O       □ O         □ O       □ O         □ O       □ O         □ O       □ O         □ O       □ O         □ O       □ O         □ O       □ O         □ O       □ O         □ O       □ O         □ O       □ O         □ Information	□ Drinking Water       □ Watershed/Watershed/Wastewater       □ Remedia         Waste Management       □ Other:	□ Drinking Water       □ Watershed/Wastewater       □ Remediation/Redeve         Waste Management       □ Other:       □         1/cap #       2. Facility / Owner Information         B-112C       Facility ID (FID or PWS)         Ob       □ GPS008         B       Cality ID (FID or PWS)         OM       □ Orthoot         Inship       Range         T N       10         Weil ZIP Code       Orginal Weil Owner         Dane County Department of Waste and Renewables         Present Weil Owner       Dane County Department of Waste and Renewables         Weil ZIP Code       53718         Lot #       Maling Address of Present Owner         State       ZIP Code         S3718       City of Present Owner         Lot #       Hump, Liner, Straen, Casing & Sealing Material         Pump and piping removed?       Yes       No         Liner(s) removed?       Yes       No         Dug       Did sealing material rise to surface?       Yes       No         Did sealing material rise to surface?       Yes       No         Dug       Did material settle after 24 hours?       Yes       No         Dug       Did material settle after 24 hours?       Yes <t< td=""></t<>

Name of Person or Firm Doing Filling & Sealing	Licens	se #	Date of I	Filling & Sealing or Verification	Date Received	Noted By
Subsurface Exploration Services			(mm/dd/	уууу) 02/15/2023		
Street or Route				Telephone Number	Comments	
2900 Lowell Dr.				(920)544-4226		
City	State	ZIP Code		Signature of Person Doing W	lork	Date Signed
Green Bay	WI	543	311	a di	$\overline{\mathbf{A}}$	02/15/2023

MW-112

Route To:

Watershed/Wastewater Other Remediation/Redevelopment

Waste Management

SOIL BORING LOG INFORMATION Form 4400-122

Rev. 7-98

																		Page	1 of 2
	y/Proje								ense/Per	mit/	Monito	oring Nu	umber		Boring				
				No. 3 (Pr	oposed) ef (first, last) a		25222268.00		e Drillir	C	outod		Da	te Drilli		MW-	112	D11	ing Method
	-	•	Name o	of crew chi	el (llíst, last) a	na rim		Date	e Driilli	ıg S	arted		Da	te Driin	ng Con	ipieted			-
	tt Klu		erina	Service	s Inc				1	123	/2023				1/23/2	023		П	SA, 4.25" ID
	ique W				Vell ID No.	Commo	n Well Name	e Fina	al Static				Surfac	e Elevat		.025	Bo	rehole	Diameter
	-	0848					IW-112				Feet		8	99.0 F	Feet M	ISL			.3"
Local	Grid Oı				) or Bor	ing Loca					0	,		Local C					
State				,724 N,	2,168,712		S/C/N		Lat _						Feet	ΠN			Feet 🗌 E
SE		of S	E 1	1/4 of Sect		т 7	n, r 10 e		Long _		°	<u> </u>				S			<b>W</b>
Facilit	y ID				County				ty Code			Town/C	•	•					
			1	I	Dane			13			City	of Ma	dison						
Sar	nple														Soil	Prope	erties		-
	ii) &	s	Gt		Soil/R	lock Desc	cription												
. o	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		And Ge	eologic O	rigin For							Standard Penetration	o		~		RQD/ Comments
Typ	gth.	Ŭ×	th Ir		Eac	h Major	Unit			CS	phic	gran	FIL	dard	stur tent	it d	ticit x	9	)/
Number and Type	Seco	Blov	Jepi							U S	Graphic Log	Well Diagram	PID/FID	Stan	Moisture Content	Liquid Limit	Plasticity Index	P 200	SQI
<u>~ </u>		щ		ORGAN	NIC SILT (OL)	) verv da	rk gravish br	own			<u> </u>			0 H	20			<u> </u>	
			E		3/2), with roots			0.011			11. 11								
S1	13	23 35	-1							OL	. <u></u>	l		1.75	M				
		55	Ē.	ON TO A	<u></u>	<b>A (2)</b>		1			- <u> </u>	÷							
L			$E^2$	SILT (N	ML), brown (7. id, soft, cohesiv	5YR 4/3) ze massiy	, with clay and with trace	nd some											
			F 2	(Loess)		<i>c</i> , massi	, mui uuce	10015.		ML									
			=3																
			E_4	LEAN	CLAY (CL), g	ray (10Y)	R 5/1) with o	range		CL									
S2	12	2 1 1	Ę	cohesiv	g, mostly silt w	ssive. (Lo	some find sar	ia, son,							W				Depth to water at
		1	E_5	SILTY	SAND (SM), y	vellowish	brown (10Y	R 5/6),											~4' bgs.
			Ē	mostly f	fine sand with i	medium t	to coarse sand	d, some											
Г	-		-6	uniform	i, massive. (Til	l) (Holy H	Hill Formation	n, Horic	con										
		1.2	E	Member	r)														
S3	18	12 2	<u>-</u> 7												W				
L	-		F							SM									
			<u>-8</u>																
Г			E																
S4		1/9" 1/9	<u>⊢</u> 9												w				
34			Ē.												vv				
L			E <sup>10</sup>																
			F 11																
	1		-11		SAND (SM), p							1							
S5	1	1/1" 60/0	- 		gravel (mostly come chert. (We										W				
			E 12		ee Group, Gale			)											
			E-13	At 13 5	' to 15', SILTY	SAND	SM)			SM									
	-		Ē	% g-s-si	i-cl = 14-49-37		~)						.						
		100/2"	-14	NP									]						
S6	3	100/2"	Ē	Kh = 7.	48E-03 cm/s										W				
	-		-15										.·						
I here	wcertif	w that	the info	rmation or	n this form is tr	me and co	orrect to the h	pest of r	ny knov	vled	æ								

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

## SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring	g Numl	ber	MW	V-112	Use only as a	n attachment	to Form 4400-1	22.								Page	2 of 2
San	· ·												Soil	Prop	erties		
	Length Att. & Recovered (in)	its	eet		Soil/Rock I	-											
er Tpe	ı Att ered	Blow Counts	Depth In Feet		And Geologi	-		s	2	В	Ð	Standard Penetration	it e		ity		RQD/ Comments
Number and Type	ngth	) MO	spth		Each Ma	ijor Unit		SC	Graphic Log	Well Diagram	PID/FID	Standard Penetratio	Moisture Content	Liquid Limit	Plasticity Index	P 200	D/ D/
an	Le Re	Bl	Ď					D	Grap	D N	Id	Sts Pe	Σΰ	ĒĒ	Pla	Ŀ	Cc RC
			Ē	SILTY SAN	D (SM), pale b l (mostly dolor	rown (2.5Y 7 uite) with fine	/3), fine to	SM									
			-16	$\neg$ sand, some	chert. (Weather roup, Galena Fo	ed Dolomite E	Bedrock)										
				End of borir	g at 16' bgs in o		structed well										
				from 15.3' b	gs.												

#### SCS # 25222268.00

State of Wisconsin Department of Natural Resources <u>Route to:</u>	Watershed/Wastewater	Waste Managemen X	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name Dane County Landfill Site No. 3 (Proposed	Local Grid Location of Well	N. <u>ft.</u> E.	Well Name MW-112
Facility License, Permit or Monitoring No		ated: [_]) or Well Location 🗖 Long or	
Facility ID	St. Plane 378723.67 ft. N		Date Well Installed m m d d y y y
Type of Well Well Code <u>11</u> / <u>MW</u>	Section Location of Waste/Sou <u>SE</u> 1/4 of <u>SE</u> 1/4 of Sec. Location of Well Relative to W	<u>7 N, R.</u> 10 ⊡¥	Well Installed By: Name (first, last) and Firm Scott Klumb
Distance from Waste/ Enf. Stds. Sourceft Apply X	u Upgradient s d Downgradient n	Sidegradient Not Known	Soils & Engineering Services, Inc.
A. Protective pipe, top elevation	<u>901.49</u> ft. MSL	1. Cap and lock?	Yes No
B. Well casing, top elevation	ft. MSL	2. Protective cover a. Inside diameter	A
C. Land surface elevation	899.0 ft. MSL	b. Length:	5  ft.
D. Surface seal, bottom $\_$ $\_$ $\_$ $\frac{894.5}{}$ ft. M	1SL  or  = -4.5  ft.	c. Material:	Other
12. USCS classification of soil near scree GP GM GC GW	en: sw sp	d. Additional pro If yes, describ	
SM X SC ML MH Bedrock X		3. Surface scal:	Bentonite 🔀 30
13. Sieve analysis performed?	Yes No	I	Concrete [ 01 Other []
	otary 50	4. Material between	well casing and protective pipe:
Hollow Stem A	Auger X 4 1	Filter Sand	Bentonite 30 Other X
······································		5. Annular space se	
15. Drilling fiuid used: Water 0 2 Drilling Mud 0 3	Air 0 1 None 99		nud weight Bentonite-sand slurry 35
	None 99	601 m m	nud weight       Bentonite slurry       31         nite       Bentonite-cement grout       50
16. Drilling additives used?	Yes XNo		<sup>3</sup> volume added for any of the above
Describe <u>N/A</u>		f. How installed	
17. Source of water (attach analysis, if rea	quired):		Tremie pumped D 0 2 Gravity X 0 8
N/A		6. Ben <u>ton</u> ite seal:	a. Bentonite granules 33
		b. 🗌 /4 in. 🗙	3/8 in. $1/2$ in. Bentonite chips $3 2$
,,,	SL or 0 ft.	c	Other
F. Fine sand, top894.5 ft. M	SL or $4.5$ ft.	7. Fine sand materi	al: Manufacturer, product name & mesh size
G. Filter pack, top894.1 ft. M	SL or $4.9$ ft.	b. Volume adde	$d_{0.25} ft^3$
H. Screen joint, top 894.0 ft. M	SL or5 ft.	- 🗋 🖊 a	rial: Manufacturer, product name & mesh size Red Flint #40
I. Well bottom 883.7 ft. M	SL or15.3 fl.	b. Volume adde 9. Well casing:	Flush threaded PVC schedule 40 🔀 23
J. Filter pack, bottom 883.0 ft. M	SL or16ft.		Flush threaded PVC schedule 80 2 4
K. Borehole, bottom $\frac{883.0}{2}$ ft. M	SL or16ft.	10. Screen material: a. Screen type:	Sch. 40 PVC Factory cut 🔀 11
L. Borehole, diameter $-\frac{8.3}{-1}$ in.		×	Continuous slot 0 1
M. O.D. well casing $-2.38$ in.		b. Manufacturer c. Slot size:	Campbell (Monoflex) 001_in.
N. I.D. well casing $2.07$ in.		d. Slotted length 11. Backfill material	l (below filter pack): None 🔀 14
I hereby certify that the information on th	is form is true and correct to the	best of my knowledge	Other
Signature	Firm		
NAT	SCS EN	IGINEERS, 2830 Dairy Drive	, Madison, WI 53718

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.

SCS # 25222268.00

State of Wisconsin Department of Natural Resources

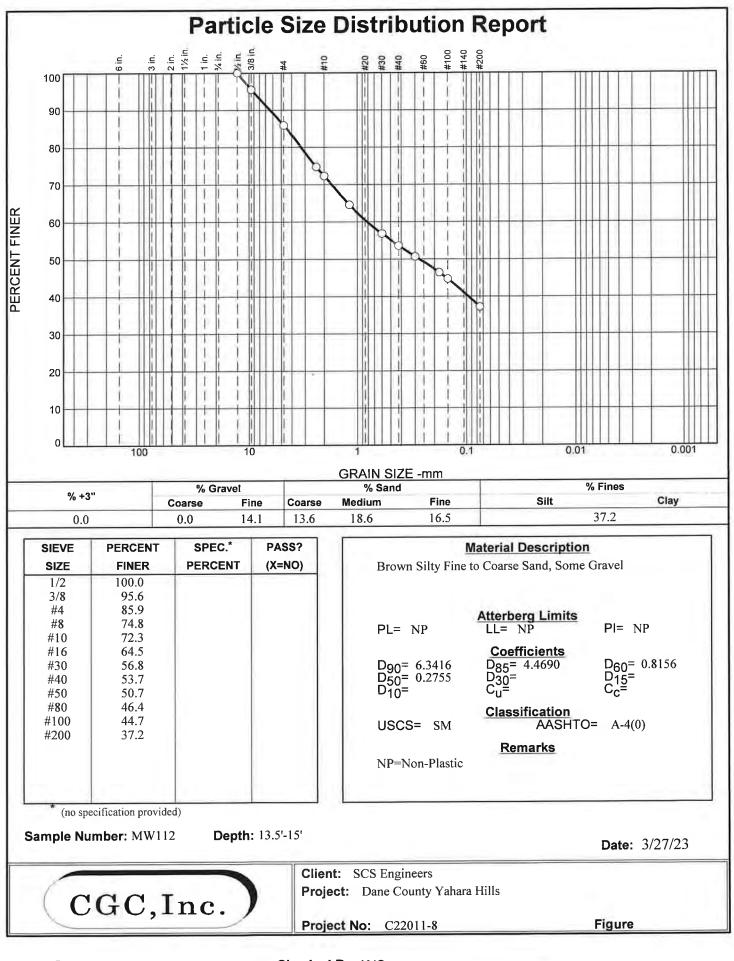
# MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Remediation/Red		Other		
Facility/Project Name	County Name		Well Name	
Dane County Landfill No. 3 (Proposed)		Dane		MW-112
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well N		DNR Well ID Number
	13	WD84	8	
surged with bailer and pumped       Image: Surged with block and pumped         surged with block and pumped       Image: Surged with block, bailed and pumped         surged with block, bailed and pumped       Image: Surged with block, bailed and pumped         surged with block, bailed and pumped       Image: Surged with block, bailed and pumped         surged with block, bailed and pumped       Image: Surged with block, bailed and pumped         surged with block, bailed and pumped       Image: Surged with block, bailed and pumped         compressed air       Image: Delta block, bailed and pumped         bailed only       Image: Delta block, bailed and pumped         pumped slowly       Image: Delta block, bailed and pumped         Other       Image: Delta block, bailed and pumped         3. Time spent developing well       Image: Delta block, bailed and well         4. Depth of well (from top of well casisng)       Image: Delta block, bailed and well         5. Inside diameter of well       Image: Delta block, bailed and well         casing       Image: Delta block, bailed and well       Image: Delta block, bailed and well         casing       Image: Delta block, bailed and well       Image: Delta block, bailed and well         casing       Image: Delta block, bailed and well       Image: Delta block, bailed and well         casing       Image: Delta block, bailed and well       Image	cs $X$ No 41 61 42 62 70 20 10 51 50 <u>120</u> min. 7.7 ft. 07 in. 5.9 gal. 0.0 gal.	Time 12. Sediment in well bottom 13. Water clarity Fill in if drilling fluid	a8 b1 /2 m m /2 c12 : 00 0 Clear [] 1 Turbid X 1 (Describe) light brown cc no odor  ds were used an 	<ul> <li>5 Turbid ∑ 2.5 (Describe)</li> <li>blor slight turbidity, almost clear slight greenish brown color</li> <li>md well is at solid waste facility:</li> <li> mg/18,5200 mg/1</li> <li> mg/18,5200 mg/1</li> </ul>
10. Analysis performed on water added?	es 🗙 No	First Name: Ethan		Last Name: Schaefer
(If yes, attach results)				
		Firm: SCS ENGIN	NEERS, 2830	) Dairy Drive, Madison, WI 53718
17. Additional comments on development:		•		

1.25 gal/min pump rate Pumped full 10 well volume using monsoon pump

Name and Address of Facility Contact /Owner/Responsible Party         First         Name:         Allison         Last         Name:	I hereby certify that the above information is true and correct to the best of my knowledge.
Facility/Firm: Dane County Dpt. of Waste & Renewables	Signature: <u>Chan Schaefer</u>
Street: 1919 Alliant Energy Center Way	Print Name: Ethan Schaefer
City/State/Zip: Madison, WI 53713	Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

NOTE: See instructions for more information including a list of county codes and well type codes.



Checked By: KJS

MW-113

Route To:

Watershed/Wastewater Remediation/Redevelopment Other

Waste Management

SOIL BORING LOG INFORMATION Form 4400-122

Rev. 7-98

															Page	1 of 2
Facilit						License/I	Permit/	Monitor	ing Nı	umber			Numbe			
				Io. 3 (Proposed) crew chief (first, last) and	SCS#: 25222268.00	Dete Duil	1			D	D.:11:		MW-	-	D.:1	Luc Methed
-		•	vame of	crew chief (first, last) an	d Firm	Date Dri	liing S	arted		Da	te Drilli	ng Con	npietea			ling Method
	tt Klu		ering	Services, Inc.			1/19	/2023				3/3/2	023			SA, 4.25" ID & r Rotary
	ique W				Common Well Name	Final Sta			1	Surfac	e Elevat		025	В		Diameter
	-	0865			MW-113						16.4 F		1SL			8" & 6"
Local	Grid Or		(est	timated: 🗌 ) or Bori		1		0			Local C					
State	Plane		378,	410 N, 2,167,782	E S/C/N	La	t					Feet	П N	[		Feet 🗌 E
SW		of SI	E 1/	4 of Section 25,	t 7 n, r 10 e	Long		°	'				S			□ W
Facilit	y ID			County		County Co	de	Civil To		-	-					
				Dane		13		City c	of Ma	dison						
San	nple											Soil	Prope	erties		-
	(in)	S	5	Soil/Ro	ock Description											
. e	Att. red (	uno	1 Fe	And Geo	ologic Origin For				-		d ion	0		N.		nts
Typ	gth ovei	v C	th L	Eacl	n Major Unit		SCS	phic	l gran	FII	trat	stur tent	it d	ticit	0	)/
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet				U S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			-	ORGANIC SILT (OL),	very dark gravish brow	/n		<u> 11</u>								
		0.0	E.I	(10YR 3/2), with roots.	(Topsoil)		OL	1/ . 11/								
S1	18	$\begin{array}{c} 0 \ 0 \\ 3 \ 2 \end{array}$		LEAN CLAY (CL), da	rk yellowish brown (10	YR					1.5	M				
			-2	4/4), mostly silt with clauniform, massive, trace	ay, medium stiff, cohes	ive,										
			= 1		100101 (20000)		CL									
			E_3													
			E													
		25	-4	SILTY SAND (SM), re	d(2.5 VR/1/6) most ty	fine										
S2	13	35 5	Εl	sand with medium to co	barse sand, some clay, a	nd fine						M				
			-5	to coarse gravel (mostly (Till) (Holy Hill Format	dolomite), uniform, m	assive.										
			Ę	(Thi) (Holy Thirt of that	ion, Honeon Member)											
			E <sup>-6</sup>													
S3	14	6										M				
			⊧′													
			E-8													
_			Ē													
		5 5	-9													
S4	10	55 6	F				SM					M				
			-10													
			Εl													
			-11													
S5	15	67 7	E									M				
	10	7	E <sup>-12</sup>	Olive (5Y 4/4) gravel (1	nostly dolomite).											
			-13													
·																
		4.10	-14													
S6	15	$4 \\ 8 \\ 8$	Εl									M				
			<u>-15</u>													

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

Jackie Rennebohm, PG 2830 Dairy Drive, Madison, WI 53718	Signature	March Inskie Bonnahahm DG	
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### SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring	g Numł	per	MW	/-113 Use only as an attachment to Form 4400-1	22.							Page	2 of 2
San	-								Soil	Prope	erties		_
	Length Att. & Recovered (in)	ıts	eet	Soil/Rock Description									
er /pe	n Att ered	Cour	In F	And Geologic Origin For	s	E E	A	urd atior	at te		ity		ients
Number and Type	ecov	Blow Counts	Depth In Feet	Each Major Unit	SC	Graphic Log Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
ar N	чч	B	D -		D		Id	St Pe	ΣŬ	EE	Pl In	Р	<u> 20</u>
				SILTY SAND (SM), red (2.5YR 4/6), moslty fine sand with medium to coarse sand, some clay, and fine									
				to coarse gravel (mostly dolomite), uniform, massive. (Till) (Holy Hill Formation, Horicon Member)									
S7	17	67 7	-17						М				
			E										
			18		SM								
			E-19										
S8	18	6 23 25	-						М				Driller noted harder rock
			-20										starting at 21.4' bgs.
			E21										
			_	SILTY GRAVEL (GM), dark gray (5Y 4/1) and very									
			-22	dark gray (5Y 3/1), fine to coarse gravel (mostly dolomite) with fine to coarse sand, with some chert.									
			E-23	(Weathered Dolomite Bedrock)	GM								
Г			-										
		60/<1"	-24	Refusal at 24' bgs with HSA.									
S9	<1"	00/~1	-25	Drilled 6" diameter hole to 37' bgs on 3/2/223 using air rotary.					М				
			E	Blind drilled 24-37' bgs. (See MW-113A log for lithology 24' to 37' bgs.)									
			-26										
			-27										
			-28										
			E-29										
			= 30	Kh = 4.52E-04  cm/s	DL1								
			-31										
			-32										
			-33										
			Ē										
			-34										
			-35										
			E ac										
			-36										
			-37	End of boring at 37' bgs in dolomite. Constructed well									
				from 36.3' bgs.									
		I	1		1	I I	1	I I	I	I	I.		I.

#### SCS # 25222268.00

	Watershed/Wastewater Remediation/Redevelopment	Waste Managemen X	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name Dane County Landfill Site No. 3 (Proposed)	Local Grid Location of Well	Nft. W.	Well Name MW-113
Facility License, Permit or Monitoring No		ated: 🔲 ) or Well Location 🗖 Long or	
Facility ID	St. Plane 378409.94 ft. N		Date Well Installed 03 / 03 / 2023
Type of Well Well Code /MW	Section Location of Waste/Sou <u>SW</u> 1/4 of <u>SE</u> 1/4 of Sec. Location of Well Relative to W	7 N, R10 🛱 🖬 🗰	m         d         v         v         v           Well Installed By: Name (first, last) and Firm           Scott Klumb
Distance from Waste/ Enf. Stds. Sourceft. Apply X	u Upgradient s d Downgradient n	Sidegradient Not Known	Soils & Engineering Services, Inc.
A. Protective pipe, top elevation	919.34 ft. MSL	1. Cap and lock?	Yes No
B. Well casing, top elevation	919.37 ft. MSL	2. Protective cover a. Inside diameter	4
C. Land surface elevation	916.4 ft. MSL	b. Length:	$- \frac{5}{2}$ ft.
D. Surface seal, bottom 894.9 ft. M	SL or ft.	c. Material:	Steel 🔀 04
12. USCS classification of soil near scree		d. Additional pro	
		If yes, describ	Bentonite 🔀 30
Bedrock X		3. Surface scal:	$Concrete \square 01$
13. Sicve analysis performed?			Other
14. Drilling method used: Ro Hollow Stem A	$\begin{array}{c c} \text{tary} \ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	4. Material between	n well casing and protective pipe: Bentonite 30
		Filter Sand	Other 🔀
15. Drilling fiuid used: Water 0 2	Air 🔀 01	5. Annular space se	
Drilling Mud 0 3	None 99		mud weight Bentonite-sand slurry 35 mud weight Bentonite slurry 31
16. Drilling additives used?	Yes XNo	d % Benton	nite Bentonite-cement grout 50
			volume added for any of the above Tremie 0 1
Describe <u>N/A</u>		f. How installed	t: Tremie 01 Tremie pumped 02
17. Source of water (attach analysis, if rec	uired):		Gravity 🔀 08
N/A	🕅	6. Bentonite seal:	a. Bentonite granules $33$ 3/8 in. $1/2$ in. Bentonite chips $32$
E. Bentonite seal, top $916.4$ ft. M	SL or ft.		tonite pellets Other X
F. Fine sand, top894.9 ft. M.	SL or $_{-}$ $_{-}$ $_{-}$ $_{-}$ ft.	7. Fine sand materi	al: Manufacturer, product name & mesh size
G. Filter pack, top892.4 ft. M	SL or $24$ ft.	ab. Volume adde	
	SL or26 ft.		rial: Manufacturer, product name & mesh size Red Flint #40
I. Well bottom 880.1 ft. M	SL or36.3 ft.	b. Volume adde 9. Well casing:	$\frac{20}{\text{Flush threaded PVC schedule 40}} \times 23$
J. Filter pack, bottom 879.4 ft. M	SL or		Flush threaded PVC schedule 80       24         Other
K. Borehole, bottom 879.4 ft. M	SL or 37ft.	10. Screen material: a. Screen type:	
<b>L.</b> Borehole, diameter $-\frac{6.0}{-1}$ in.		×	Continuous slot 0 1
M. O.D. well casing $-\frac{2.38}{2}$ in.		b. Manufacturer c. Slot size:	Campbell (Monoflex) 0 01_ in.
N. I.D. well casing $-\frac{2.07}{-1}$ in.		d. Slotted lengti 11. Backfill materia	l (below filter pack): None 🔀 14
I hereby certify that the information on thi	s form is true and correct to the	best of my knowledge.	
Signature	Firm		
(h the the test test test test test test	I SCS EN	IGINEERS, 2830 Dairy Drive	, Madison, WI 53718

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.

SCS # 25222268.00

State of Wisconsin Department of Natural Resources

MONITORING	WELL	DEVELOPMENT
Form 4400-113B		Rev. 7-98

Route to: Watershed/Wastew	ater	Waste Management	X					
Remediation/Redev	velop ment	Other						
Facility/Project Name	County Name		Well Name					
Dane County Landfill No. 3 (Proposed)	-	Dane	MW-113					
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Nu <u>WD865</u>		DNR Well I	D Number			
<ol> <li>Can this well be purged dry? Xes</li> <li>Well development method</li> </ol>	Before DevelopmentAfter Development11. Depth to Water (from top of well casing) $a_{-} - \frac{22}{2} - \frac{70}{2}$ ft. $a_{-} - \frac{35}{2} - \frac{41}{2}$ ft.							
surged with bailer and bailed       X       4         surged with bailer and pumped       X       6         surged with block and bailed       4       4         surged with block and pumped       6       6         surged with block, bailed and pumped       6       7         compressed air       2       2         bailed only       1       1         pumped only       5       5         Other       5       5	Date	c. <u>10 25</u> <u>~2</u> . Clear <b>1</b> 1	$\frac{03}{m m} / \frac{16}{d} / \frac{2023}{y y y} \frac{03}{m m} / \frac{16}{d} / \frac{2023}{y y y} \frac{03}{m m} \frac{16}{d} / \frac{16}{y y} \frac{16}{y}$ $\frac{10.25}{p m} \frac{a.m.}{p.m.} \frac{11.40}{p.m.} \frac{a.m.}{p.m.}$ $\frac{-2}{2.0} \text{ inches} \frac{-1}{2.0} \text{ inches}$ Clear 10 Clear 20 Turbid 15 Turbid 25					
	75 min.		(Describe)		Describe)			
4. Depth of well (from top of well casisng) $-\frac{39}{-}$ .		Cloudy brown		ght cloudy brown lightly less turbid				
5. Inside diameter of well $-\frac{2}{2} \cdot \frac{07}{7}$		3 <del>.</del> 8 <del>.</del>			_			
<ul> <li>6. Volume of water in filter pack and well casing 8/2.</li> <li>7. Volume of water removed from well _ 12/2.</li> </ul>	Fill in if drilling fluids were used and well is at solid waste facility:							
8. Volume of water added (if any) $\underline{} \underline{} \underline{} \underline{}$		14. Total suspended solids		mg/l	<u>5,5100</u>	mg/i		
9. Source of water added NA		15. COD		mg/l		mg/l		
	16. Well developed by: Name (first, last) and Firm							
10. Analysis performed on water added? Yes (If yes, attach results)	No No	First Name: Bridget		Last Name:				
		Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718						

17. Additional comments on development:

- 10 well volumes = 84 gallons
- Bailed 5 gal in surge and purge, pumped 5 more gallons and well went dry
- Waited 10 min, bailed dry, waited 10 min and bailed dry again. Only was able to get 2.5 gallons

Name and Address of Facility Contact /Owner/Responsible Party         First       Last         Name:       Allison	I hereby certify that the above information is true and correct to the best of my knowledge.
Facility/Firm:Dane County Dpt. of Waste & Renewables	Signature: Budget Runel
Street:1919 Alliant Energy Center Way	Print Name: Bridget Russell
City/State/Zip: _Madison, WI 53713	Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

NOTE: See instructions for more information including a list of county codes and well type codes.

MW-113A

State of Wisconsin Department of Natural Resources

Route To:

Watershed/Wastewater Remediation/Redevelopment

Waste Management Other

SOIL BORING LOG INFORMATION Form 4400-122

Rev. 7-98

														Page	1 of 4
Facility/Proje					License/I	Permit/	Monitori	ng Nu	mber		Boring				
			lo. 3 (Proposed)	SCS#: 25222268.00					-			MW-			
	•		crew chief (first, last) an		Date Dril	ling S	arted		Dat	e Drilli	ng Con	npleted			ling Method
Scott Klu	imb, S	Soils &	rface Exploration S c Engineering Serv	ices, Inc.			2023				3/2/2	023		Air	A, 4.25" ID &
WI Unique W			DNR Well ID No.	Common Well Name	Final Stat	tic Wa	ter Level			e Elevat			Bo		Diameter
	D866			MW-113A						16.6 F				8.3	3" & 6"
Local Grid O	rıgın		imated:  ) or Bor 412 N, 2,167,779		La	t	• •		"	Local C					
State Plane SW 1/4	C CI	· · ·					。 ,		"		Feet				Feet E
Facility ID	of SI	Z 1/-	4 of Section 25, County	t 7 n, r 10 e	Long County Co		Civil Tov	wn/Ci	 tv/ or V	/illage		S			□ W
racinty iD			Dane		13	ue	City of		-	-					
Sample			Dane		15			1 1010			Soil	Prope	ortion		
	-		G 1175								5011	riope			-
Number and Type Length Att. & Recovered (in)	nts	eet		ock Description											
er Pe Pe	Blow Counts	Depth In Feet		ologic Origin For		S	0	В		Standard Penetration	er E		ity		RQD/ Comments
Number and Type Length At Recovered	M O	pth	Eac	h Major Unit		s C	Graphic Log	Well Diagram	PID/FID	Standard Penetrati	Moisture Content	Liquid Limit	Plasticity Index	200	D/D/
Nu Lei Re	Ble	De				ñ	Grap Log	Well Diagr	IId	Sta Pei	Ŭ Ă	Lii	Pla Ind	P 2	Co
		-1 -2 -3 -4 -5 -6 -7 -8 -9 -10 -11 -12 -13 -14 -15	Blind drilled to 25' bgs (See MW-113 log for 1 Subsurface Exploration 68' bgs on 2/6-7/2023. Soils & Engineering Sch diameter using air rotar MW-113A at 66.8' bgs	ithology from 0' to 25' n Services cored hole fr ervices, Inc. reamed ho ry on $3/2/2023$ and set	rom 25' to le to 6"										

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

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

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.

#### SOIL BORING LOG INFORMATION SUPPLEMENT Form 4400-122A

Borin	g Numł	ber	MW	V-113A Use only as an attachment to Form 4400-1	22.									Page	2 of 4
	nple										Soil	Prop	erties		
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	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			16 17 18 19 20 21 22 23 24												
Run 1	62		25 26 27 28 29 30	DOLOMITE (DL1), dark gray (5Y 4/1), very dark gray (5Y 3/1), and light yellowish brown (2.5Y 6/4), thinly interbedded with shale, bedding is mottled and/or wavy, with oval to round vugs, trace chert, fossiliferous. (Sinnipee Group, Galena Formation)											FF=1.92/ft Percent Recovery=100% RQD=73%, fair.
Run 2	60		-31 -32 -33 -34 -35		DL1										FF=1.55/ft Percent Recovery=100% RQD=78%, fair
Run 3	55.5														FF=0.43/ft Percent Recovery=92.5% RQD=86%, good

### SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

	g Numb	er	MW	V-113A Use only as an attachment to Form 4400-1	22.									Page	3 of 4
Sar	nple									So	il I	Prop	erties		4
	t. &	nts	eet	Soil/Rock Description											
er /pe	n Att ered	Coui	In F	And Geologic Origin For	s	ic.	5		ation	are .	t	_	ity		ients
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Each Major Unit	SC	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture	Content	Limit	Plasticity Index	P 200	RQD/ Comments
	ЦК	В			D				P S			μ	P Ir	Р	2 Y Y
			E	DOLOMITE (DL1), dark gray (5Y 4/1), very dark gray (5Y 3/1), and light yellowish brown (2.5Y 6/4),											
			-41 -	mottled and/or wavy bedding, thinly interbedded with shale, with oval to round vugs, trace chert,											
			-42	fossiliferous. (Sinnipee Group, Galena Formation)	DL1										
Run	60		E												FF=0.77/ft
4			-43												Percent Recovery=100%
			-44	DOLOMITE (SII) dede ener (SV 4/1) en derere dede		-									RQD=95%, excellent
				DOLOMITE (SH), dark gray (5Y 4/1) and very dark gray (5Y 3/1), thinly interbedded with shale, bedding											
			-45	is wavy, trace chert. (Sinnipee Group, Decorah Formation)			-								
			-46												
			-47 												
Run 5	60		-48			E7									FF=0.96/ft Percent
			E												Recovery=100% RQD=89%, good
			-49												
			-50		SH										
				Light gray (2.5Y 7/1 to 7/2), with 3" layer of light greenish gray (Gley 1 7/5G 7/1) clay, trace vugs,											
			51 	pyrite, and white layering.											
			-52												
Run	60		Ē												FF=1.8/ft
6			= 53			$\vdash$									Percent Recovery=100%
			54												RQD=80%, good
			E 33												
			-56	DOLOMITE (DL2) gray (5Y 5/1) massive to thinly		= 7									
			-	bedded with shale and/or silt, with chert, trace round to											
				bedding. (Sinnipee Group, Platteville Formation)											
Run 7	59		- 58					· ]							Percent
			50												RQD=79%, good
								· ·							
_			E-60	Gray (2.5Y 6/1) and light gray (5Y 7/1).				· · ·							
			-61		DL2			· ·.							
			Ē			-	1								
			-62			É,									
Run	59		-63	$K_{\rm h} = 3.87 E_{-}05  {\rm cm/c}$											FF=2.03/ft Percent
0			Ē	KII = 5.07E-05 CHV8											Recovery=98% RQD=73%, fair
			-64 			μZ									
			-65												
Run 7	60 59 59		52 53 54 55 56 57 58 59 60 61 62 63 64	DOLOMITE (DL2), gray (5Y 5/1), massive to thinly bedded with shale and/or silt, with chert, trace round to oval vugs, and green clay within fractures and bedding. (Sinnipee Group, Platteville Formation)	DL2										Recovery=100% RQD=80%, good FF=1.83/ft Percent RQD=79%, good FF=2.03/ft Percent

### SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring	g Numł	ber	MW	V-113A Use only as an attachment to Form 4400-12	22.								Page	4 of 4
San	nple									Soil	Prope	erties		
	Length Att. & Recovered (in)	ts	žet	Soil/Rock Description										
r Se	Att. red (	Blow Counts	Depth In Feet	And Geologic Origin For		0			d tion	e		ty		uts
Typ	igth :ove:	≪ K	oth I	Each Major Unit	SCS	Graphic Log	ll grar	PID/FID	ndar etra	Moisture Content	Liquid Limit	Plasticity Index	00	D/
Number and Type	Ler Rec	Blo	Def		U S	Grap Log	Well Diagram	PIC	Standard Penetration	Mo Cor	Liquic Limit	Plastic Index	P 200	RQD/ Comments
F			-	SANDSTONE (SS1), yellow (2.5Y 7/6), fine to coarse grained, poorly sorted, cemented with dolomite, trace										
			-66	green/gray clay. (Ancell Group, Glenwood Formation)										
Run	40		E		SS1									FF=2.40/ft
9	40		<u>–</u> 67											Percent
			-68			· · · · · ·								Recovery=100% RQD=80.5%, good
L			00	End of boring at 68' bgs in sandstone. Hole reamed to 6" diameter using air rotary and constructed well from										
				66.8' bgs.										

State of Wisconsin Department of Natural Resources <u>Route to:</u>	Watershed/Wastewater	Waste Managemen X	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name Dane County Landfill Site No. 3 (Proposed	Local Grid Location of Well	<u> </u>	Well Name MW-113A
Facility License, Permit or Monitoring No	Local Grid Origin (estim	]SftW. ated:) or Well Location □ Long'	Wis. Unique Well No. DNR Well ID No.
Facility ID	St. Plane 378412.05 ft. N	I, <u>2167779.20</u> ft. E. S/C/N	
Type of Well Well Code 12 / PZ	Section Location of Waste/Sou SW1/4 of SE 1/4 of Sec.	<u></u> 25, <b>T</b> . <u></u> 7 <b>N, R</b> . <u></u> 10 <b>□</b> ₩	Well Installed By: Name (first, last) and Firm Scott Klumb
Distance from Waste/ Enf. Stds.	Location of Well Relative to U u Upgradient s	Sidegradient	Soils & Engineering Services, Inc.
Sourceft. Apply X A. Protective pipe, top elevation	<u>d</u> Downgradient n <u>919.29</u> ft. MSL	Not Known 1. Cap and lock?	X Yes No
B. Well casing, top elevation	919.31 ft. MSL	2. Protective cover a. Inside diamete	pipe:
C. Land surface elevation	916.6 ft. MSL	b. Length:	$\begin{array}{c} \underline{} \underline{}} \underline{} $
	1SL or 52 ft.	c. Material:	Steel 🗙 04
12. USC <u>S classification of soil near scre</u>		d. Additional pro	Other [ otection? Yes [X] No
	sw SP	If yes, descrit	
SM SC ML MH Bedrock X	СГ СН 🗌 🛛 🕂	3, Surface scal:	Bentonite $\times$ 30 Concrete $\bigcirc$ 01
13. Sieve analysis performed?	Yes No		Concrete 0 1 Other
0	otary 🔀 5 0	4. Material betwee	n well casing and protective pipe:
Hollow Stem A		Filter Sand	Bentonite 30
	Other	5. Annular space se	Other 🔀 🧱 eal: a. Granular/Chipped Bentonite 🔀 3 3
15. Drilling fiuid used: Water X0 2	Air 🗙 0 1	b $\frac{2:1 \text{ Lbs/gal}}{2:1 \text{ Lbs/gal}}$	mud weight Bentonite-sand slurry $\times$ 35
Drilling Mud 0 3	None 99	cLbs/gal	mud weight Bentonite slurry 🛄 3 1
16. Drilling additives used?	Yes 🗙 No		nite
		$f_{\rm f}$ How installed	
Describe <u>N/A</u> 17. Source of water (attach analysis, if re	avired):		Tremie pumped 🔀 02
Yahara Hills Private W	000	6. Bentonite seal:	Gravity 🗙 08 a. Bentonite granules 33
	🕅	🗱 b. 🔀 /4 in. 🗌	3/8 in. $1/2$ in. Bentonite chips $32$
E. Bentonite seal, top864.6 ft. M	$SL \text{ or } \_ \_ \_ \frac{52}{2} \text{ft.}$	c.Pell plug, Ber	ntonite pellets Other
F. Fine sand, top859.6 ft. M	ISL or <u>57</u> ft.	7. Fine sand materi	ial: Manufacturer, product name & mesh size
G. Filter pack, top857.6 ft. M	ISL or 59 ft.	a. b. Volume adde	
	61.5 .		rial: Manufacturer, product name & mesh size
	$SL \text{ or } \_ \_ \frac{61.5}{1.5} \text{ ft.}$	a b. Volume adde	$\frac{\text{Red Flint #40}}{1.75 \text{ ft}^3}$
I. Well bottom $$ $849.8$ ft. M	ISL or 66.8 n.	9. Well casing:	Flush threaded PVC schedule 40 🔀 23
J. Filter pack, bottom848.6 ft. M	ISL or		Flush threaded PVC schedule 80 2 4
K. Borehole, bottom 848.6 ft. M	ISL or	10. Screen material: a. Screen type:	Sch. 40 PVC
L. Borehole, diameter $$		A	Continuous slot 🗌 01
0.00		b. Manufacturer c. Slot size:	
0.07		d. Slotted lengt	h:5 ft.
N. I.D. well casing $2.07$ in.		11. Backfill materia	I (below filter pack):         None X         1 4           Other         Image: Second
I hereby certify that the information on th	is form is true and correct to the	best of my knowledge.	
Signature N	Firm SCS EN	NGINEERS, 2830 Dairy Drive	e, Madison, WI 53718

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.

State of Wisconsin Department of Natural Resources

MONITORING	WELL	DEVELOPMENT
Form 4400-113B		Rev. 7-98

Route to: Watershed/Wastewater	Waste Manageme	ent 🔀
Remediation/Redevelopme	ont Other	
Facility/Project Name County	Name	Well Name
Dane County Landfill No. 3 (Proposed)	Dane	MW-113A
Facility License, Permit or Monitoring Number         County           13         13		
2. Well development method         surged with bailer and pumped $X = 41$ surged with bailer and pumped $G1$ surged with block and pumped $G2$ surged with block and pumped $G2$ surged with block, bailed and pumped $G2$ bailed only $G1$ pumped slowly $G2$ Other $G2$ 3. Time spent developing well $G2$ 4. Depth of well (from top of well casisng) $G2$ $G2$ $G7$ $G7$ 5. Inside diameter of well $G2$ $G7$ 6. Volume of water in filter pack and well	l. Fill in if drilling fl	a. $23$ $65$ ft. $58$ $70$ ft. b. $\frac{03}{m} / \frac{16}{d} / \frac{2023}{y y y y} \frac{03}{m} / \frac{16}{d} / \frac{2023}{y y y y} \frac{03}{y y y} \frac{16}{y y y y} \frac{2023}{y y y}$ c. $9:45$ $2023$ $\frac{12}{m} \frac{16}{m} / \frac{16}{d} \frac{2023}{y y y y}$
7. Volume of water removed from well 87. 24 gal	14. Total suspende	ed 2 <u>55</u> 0 mg/l
8. Volume of water added (if any)0_ gal	. solids	
9. Source of water added NA	15. COD	mg/l mg/l
	— 16. Well developed	d by: Name (first, last) and Firm
10. Analysis performed on water added? Yes X (If yes, attach results)	No First Name: Brid	get Last Name: Russell
	Firm: SCS ENC	GINEERS, 2830 Dairy Drive, Madison, WI 53718

17. Additional comments on development:

- 10 well volumes = 117 gallons

Bailed 2 gal in surge and purge 10 min, pumped 3 more gallons and battery on monsoon died
Surged and purged monsoon new battery starting at 10:50am, went dry twice let recharge for 10/15 min each time.

Name and Address of Facility Contact /Owner/Responsible Party         First       Last         Name:       Allison	I hereby certify that the above information is true and correct to the best of my knowledge.
Facility/Firm:Dane County Dpt. of Waste & Renewables	Signature: Budget Ohmel
Street: 1919 Alliant Energy Center Way	Print Name: Bridget Russell
City/State/Zip: Madison, WI 53713	Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

NOTE: See instructions for more information including a list of county codes and well type codes.

MW-114

Route To:

Watershed/Wastewater Remediation/Redevelopment  $\Box$ 

Waste Management Other

SOIL BORING LOG INFORMATION Form 4400-122

Rev. 7-98

being Delide filey. Name of crew chief (first, has) and Firm Scott Klumb Scott K		y/Projec			N. 2 (Dr 1)	0.001 25222248 00	License/	Permit	Monito	oring Nu	umber										
Scort Klumb     Instruction     HSA, 4.25* I       Soils & Engineering Services, Inc.     1/23/2023     1/23/2023       Uluque Well No.     DRR Well ID No.     Common Well Name     Final Static Water Level     Surface Elevation       Soils & Engineering Services, Inc.     NUV-114     891.3 Feet MSL     8.3*       Soil Good Gind Origin Cestimated :     ) or Boring Location E     Intermediate Cestimated :     Intermediate Cestimated :       Sate Plane     378.420 N, 2,168,480 E     Since Neme     County Code     Civit OroworCity' or Village       Sate Plane     County     County     County Code     Civit OroworCity' or Village       Sample     Soil Rock Description     And Geologic Origin For     Soil Rock Description       Sate Plane     SILT (ML), very dark gravish brown (10YR 3/2), organic rich, with roots. (Copsoil)     M       Sil     20     93     1     SILT (ML), very dark gravish brown (10YR 3/2), organic rich, with roots. (Copsoil)     M       Sil     20     93     1     ITAN CLAY (CI), very dark gravish brown (10YR 3/2), organic rich, with roots. (Copsoil)     M       Sil     20     93     1     ITAN CLAY (CI), very dark gravish brown (10YR 3/2), organic rich, with roots. (Copsoil)     M       Sil     15     3.4     5     Gray (10YR 5/1), with orange and black motiling.     M       Sil						SCS#: 25222268.00	Date Dri	illing S	tarted		Da	te Drilli				Dril	ling Method				
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$														2023							
scal Grid Origin $\square$ (estimated $\square$ ) or Boring Location $\square$ State Plance $378,420$ N, 2,168,480 E $5/C/N$ State Plance $378,420$ N, 2,168,480 E $5/C/NTest \square N Pet \square FTest \square N Pet \square N Pe$	WI Un	-		•	DNR Well ID No.									ICI	Bo						
Same Plane       378,420 N, 2,168,480 E $S/C/N$ Lat $  -$	Local (			□ (es	stimated:  ) or Bo		·	891.3		MSL						8.3"					
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SI 20 $\begin{array}{ c c c c c c c c c c c c c c c c c c c$		ЧК	В		SILT (ML) very derk	gravish brown (10VP 2	(2)				P	N L	20		P Ir	Ч	M O				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				E	organic rich, with root	ts. (Topsoil)	/2),		1/ 1/												
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	S1	20	03 23					ML	<u>, i ij</u> <u>, i</u>				M								
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $				-3	massive, trace roots. (1	Loess)	,														
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Г			Ê,	At 3.5' to 5', LEAN C	LAY (CL)															
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	S2	15	34	<b>F</b> <sup>4</sup>	% g-s-si-cl = 0-21-49- LL=42. PI=23	-31		CL				1.5	М				Depth to water at				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Ц		7	E_5		anon oo on d blook mottl											~6' bgs.				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				E	Gray (10 Y K 5/1) with	orange and black moul	ing.														
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$S4 \begin{bmatrix} 18 & 111 \\ 1 & 1 \\ 12 & 12 \\ S6 \begin{bmatrix} 18 & 1326 \\ 36 \end{bmatrix} = 14 \\ S6 \begin{bmatrix} 18 & 1326 \\ 36 \end{bmatrix} = 14 \\ S12 \\ S6 \begin{bmatrix} 18 & 1326 \\ 36 \end{bmatrix} = 14 \\ S12 \\ S12$	S3	14	$01_{2}$	E <sub>7</sub>									W								
$S4 \begin{bmatrix} 18 \\ 11 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	Ц		2	Ë	SILTY SAND (SM), mostly fine sand with	yellowish brown (10YR medium and coarse sand	5/6), 1 and														
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				-8	some clay, fine and co	arse gravel (mostly dolo	mite),			目											
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Г			Ē,		ii) (1101y 1111 Formation,	TIONCON														
$S5 \begin{bmatrix} 18 & 1326 \\ 36 \end{bmatrix} \begin{bmatrix} 10 & Kh = 2.30E-03 \text{ cm/s} \\ 11 & \\ 11 & \\ 12 & \\ 13 & \\ 86 \end{bmatrix} \begin{bmatrix} 18 & 1326 \\ 36 \end{bmatrix} \begin{bmatrix} 13 & 26 \\ 36 \end{bmatrix} \begin{bmatrix} 14 & 375 \\ 875 \\ 875 \\ 875 \end{bmatrix} \begin{bmatrix} 18 & 1326 \\ 36 \end{bmatrix} \begin{bmatrix} 13 & 26 \\ 875 \\ 875 \\ 875 \end{bmatrix} \begin{bmatrix} 18 & 1326 \\ 36 \end{bmatrix} \begin{bmatrix} 14 & 375 \\ 875 \\ 875 \\ 875 \end{bmatrix} \begin{bmatrix} 18 & 1326 \\ 875 \\ 875 \\ 875 \end{bmatrix} \begin{bmatrix} 18 & 1326 \\ 875 \\ 875 \\ 875 \end{bmatrix} \begin{bmatrix} 18 & 1326 \\ 875 \\ 875 \\ 875 \end{bmatrix} \begin{bmatrix} 18 & 1326 \\ 875 \\ 875 \\ 875 \end{bmatrix} \begin{bmatrix} 18 & 1326 \\ 875 \\ 875 \\ 875 \end{bmatrix} \begin{bmatrix} 18 & 1326 \\ 875 \\ 875 \\ 875 \end{bmatrix} \begin{bmatrix} 18 & 1326 \\ 875 \\ 875 \\ 875 \end{bmatrix} \begin{bmatrix} 18 & 1326 \\ 875 \\ 875 \\ 875 \end{bmatrix} \begin{bmatrix} 18 & 1326 \\ 875 \\ 875 \\ 875 \\ 875 \end{bmatrix} \begin{bmatrix} 18 & 1326 \\ 875 \\ 875 \\ 875 \\ 875 \end{bmatrix} \begin{bmatrix} 18 & 1326 \\ 875 \\ 875 \\ 875 \\ 875 \\ 875 \end{bmatrix} \begin{bmatrix} 18 & 1326 \\ 875 \\ 875 \\ 875 \\ 875 \\ 875 \\ 875 \end{bmatrix} \begin{bmatrix} 18 & 1326 \\ 875 \\ 8$	S4	18	11	<b>F</b> 9									W								
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S5     18     110 12     12     Image: Sandstop (10)     W       S5     18     12     Image: Sandstop (10)     Sandstop (10)     W       S6     18     13 26 36     14     Sandstop (10)     Sandstop (10)     Ssc       S6     18     13 26 36     14     Sc     Sandstop (10)     Ssc				Ę	KII – 2.50E-05 CHI/S					目											
S6     18     13 26 36     SANDSTONE (SS2), yellow (10YR 8/6) and white (10YR 8/1), mostly fine grained with medium sand and fine gravel. (Ancell Group, St. Peter Formation, Tonti Member)     Ss2       S6     18     13 26 36     Sill TY SAND (SM)	Г			-11																	
S6     18     13 26 36     SANDSTONE (SS2), yellow (10YR 8/6) and white (10YR 8/1), mostly fine grained with medium sand and fine gravel. (Ancell Group, St. Peter Formation, Tonti Member)     Ss2       S6     18     13 26 36     Sill TY SAND (SM)	S5	18	1 10	E									w								
S6     18     13 26 36     (10YR 8/1), mostly fine grained with medium sand and fine gravel. (Ancell Group, St. Peter Formation, Tonti Member)     S52       S6     18     13 26 36     % g-s-si-cl = 8-79-5-8     S52	Ц		12		SANDSTONE (SS2),	yellow (10YR 8/6) and	white														
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				-13	(10YR 8/1), mostly fin	ne grained with medium	sand														
S6 $18$ $13 \frac{26}{36}$ $4$ $\%$ g-s-si-cl = 8-79-5-8 W	Ц			E	Tonti Member)	-	auton,	SS2													
	S6	18		E <sup>-14</sup>									w								
			36	= 15																	

Signature	not	Firm	SCS Engineers
	and	Adam Watson	2830 Dairy Drive, Madison, WI 53718

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.

#### SOIL BORING LOG INFORMATION SUPPLEMENT Form 4400-122A

Boring		ber	MW	Use only as an attachment to Form 4400-	122.	1	1	1	T				Page	2 of 2
San	•									Soil	Prop	erties		-
	t. & 1 (in)	nts	feet	Soil/Rock Description										8
ype	h At vered	Cou	In I	And Geologic Origin For Each Major Unit	S	jic.	am	Ð	ard ratio	ant	9	city	_	/ nents
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Lacii Major Onit	USC	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid	Plasticity Index	P 200	RQD/ Comments
a N	цж	щ	-	Dark red (2.5YR 3/6) inclusions (iron).					N F					<u> </u>
			-16		SS2									
			10	End of boring at 16' bgs in sandstone. Constructed well from 15.3' bgs.										

	Watershed/Wastewater Remediation/Redevelopment	Waste Managemen X	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name Dane County Landfill Site No. 3 (Proposed)	Local Grid Location of Well	]Nft. □ E.  Sft. □ W.	Well Name MW-114
Facility License, Permit or Monitoring No.		ited: [_]) or Well Location [_ Long on	<u> </u>
Facility ID	St. Plane		
Type of Well Well Code <u>11</u> / <u>MW</u>	Section Location of Waste/Sou <u>SW</u> 1/4 of <u>SE</u> 1/4 of Sec. Location of Well Relative to W	<u>7 N, R.</u> <u>10 🔤 E</u>	Well Installed By: Name (first, last) and Firm Scott Klumb
Distance from Waste/ Enf. Stds. Sourceft. Apply	u Upgradient s d Downgradient n	Sidegradient Not Known	Soils & Engineering Services, Inc.
A. Protective pipe, top elevation	<u>899.87</u> ft. MSL	1. Cap and lock?	Yes No
B. Well casing, top elevation		2. Protective cover a. Inside diamete	A
C. Land surface elevation	897.3 ft. MSL	b. Length:	-5  ft.
D. Surface seal, bottom 892.8 ft. M.	SL or 4.5 ft.	c. Material:	Steel 🔀 04 Other
12. USCS classification of soil near scree		d. Additional pr	
		If yes, descril	
Bedrock		3. Surface scal:	$\begin{array}{c c} \mathbf{Bentonite} & 3 \\ \mathbf{Concrete} & 0 \\ 1 \end{array}$
13. Sicve analysis performed?	Yes No		Other
14. Drilling method used: Ro	otary 5 0	4. Material betwee	n well casing and protective pipe:
Hollow Stem A		Filter Sand	Bentonite 30
C	Dther	694	Other X
15. Drilling fiuid used: Water 0 2	Air 01	5. Annular space s	mud weight Bentonite-sand slurry $35$
Drilling Mud 0 3	None 99		mud weight Bentonite slurry 31
16. Drilling additives used?	Yes 🗙 No		nite Bentonite-cement grout 50
			<sup>3</sup> volume added for any of the above Tremie 0 1
Describe <u>N/A</u>		f. How installed	$\frac{1}{\text{Tremie pumped}} = 0.2$
17. Source of water (attach analysis, if req	uired):	88	Gravity 🗙 08
N/A	🕅	6. Bentonite seal:	a. Bentonite granules 33
E. Bentonite seal, top 897.3 ft. MS	SL or 0 ft.	b/4 m. 🗶	3/8 in.         1/2 in.         Bentonite chips         3 2           Other
F. Fine sand, top892.8 ft. MS	SL or 4.5 ft.	2008 /	ial: Manufacturer, product name & mesh size
892.55 ft Mg	SL or 4.75 ft.	a. Red Flint #1	
• • • ======		b. Volume adde	rial: Manufacturer, product name & mesh size
H. Screen joint, top 892.3 ft. MS	SL or $\_$ $\_$ $5 ft.$	ab. Volume adde	Red Flint #40
I. Well bottom 882.0 ft. MS	SL or15.3 ft.	9. Well casing:	Flush threaded PVC schedule 40 2 3         Flush threaded PVC schedule 80 2 2
J. Filter pack, bottom881.3 ft. MS	SL or $\_$ $^{16}$ ft.		Other 🔲 🌉
K. Borehole, bottom 881.3 ft. MS	SL or $\_$ $\_$ $\_$ $^{16}$ ft.	10. Screen material a. Screen type:	Factory cut 🔀 11
L. Borehole, diameter $-\frac{8.3}{-}$ in.		×	Continuous slot 0 1 Other 0
M. O.D. well casing $-\frac{2.38}{1000}$ in.		b. Manufacturer c. Slot size:	0. <u>01</u> in.
N. I.D. well casing $2.07$ in.		d. Slotted lengt 11. Backfill materia	h: $-10$ ft. I (below filter pack): None X 1 4
			Other
I hereby certify that the information on this		best of my knowledge.	
Signature	Firm SCS EN	IGINEERS, 2830 Dairy Drive	e, Madison, WI 53718

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.

State of Wisconsin Department of Natural Resources

#### MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Wast		Waste Management	$\boxtimes$		
Remediation/Rec Facility/Project Name Dane County Landfill No. 3 (Proposed)	County Name	Other	Well Name	MW-114	_
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Nu WD89	and the second sec	DNR Well ID Nur	
<ul> <li>2. Well development method</li> <li>surged with bailer and bailed</li> <li>surged with block and bailed</li> <li>surged with block and pumped</li> <li>surged with block, bailed and pumped</li> <li>compressed air</li> <li>bailed only</li> <li>pumped only</li> <li>pumped slowly</li> <li>Other</li> <li>3. Time spent developing well</li> <li>4. Depth of well (from top of well casisng)</li> <li>1</li> <li>5. Inside diameter of well</li> <li>2</li> <li>6. Volume of water in filter pack and well</li> </ul>	41 $61$ $42$ $62$ $70$ $20$ $10$ $51$ $50$ $125$ min. $8.1$ ft. $07$ in. $20$ $20$ $20$ $125$ min.	well casing) Date	a5 b. $\frac{01}{m} / \frac{27}{d}$ c9 : 40 2 Clear1 ( Turbid $\ge$ 1 5 (Describe) light brown colo no odor	<b>a.m.</b> 11 <b>p.m.</b> 11 <b>p.m.</b> 11 <b>clear Clear</b> [] <b>Turbid</b> []         (Describe)          r       clear         no odor	$\frac{5}{m} = \frac{43}{d} \text{ ft.}$ $\frac{01}{m} = \frac{27}{d} = \frac{2023}{27} = \frac{2023}{27} = \frac{2023}{27} = \frac{2023}{27} = \frac{2023}{27} = \frac{27}{27} = \frac{2023}{27} = \frac{27}{27} = \frac$
7. Volume of water removed from well9	<u>95 0</u> gal.	14. Total suspended			·
8. Volume of water added (if any)	<u>0.0</u> gal.	solids			
9. Source of water added NA		15. COD		<u> </u>	mg/l
<ul> <li>10. Analysis performed on water added?</li> <li>(If yes, attach results)</li> <li>17. Additional comments on development:</li> </ul>	es X No	16. Well developed b First Name: Ethan Firm: SCS ENGIN	]	Last Name: Schaet	

17. Additional commonia on development.

- Purged and surged for 30 minutes with bailer, purged 15 gallons

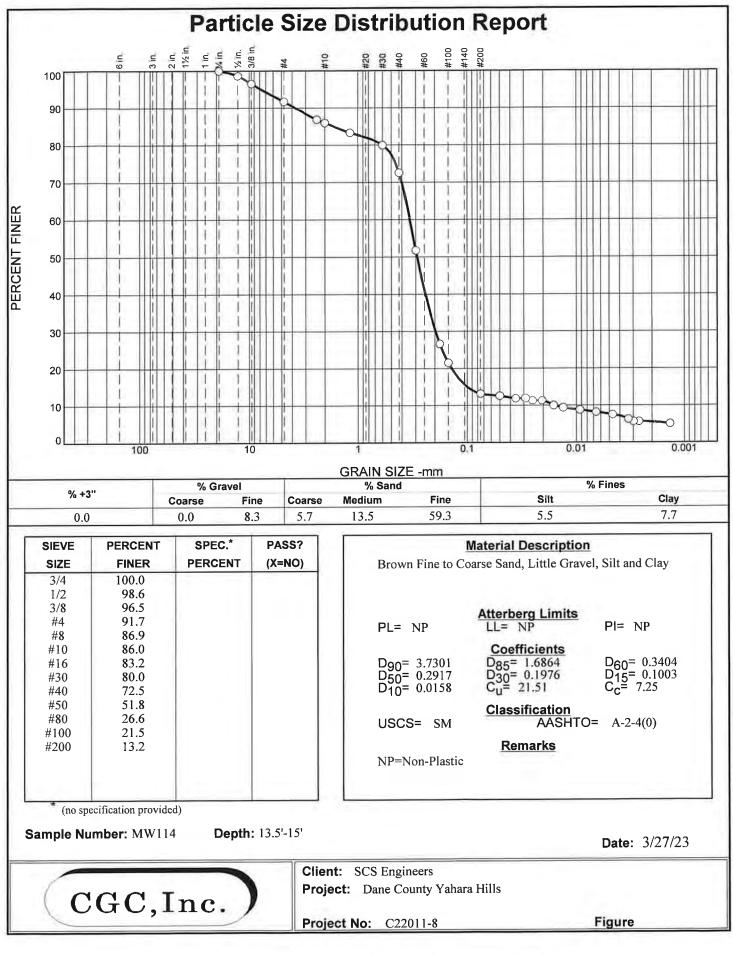
- 10 well volumes: 120 gallons

- Water purged clear after 80 gallons purged

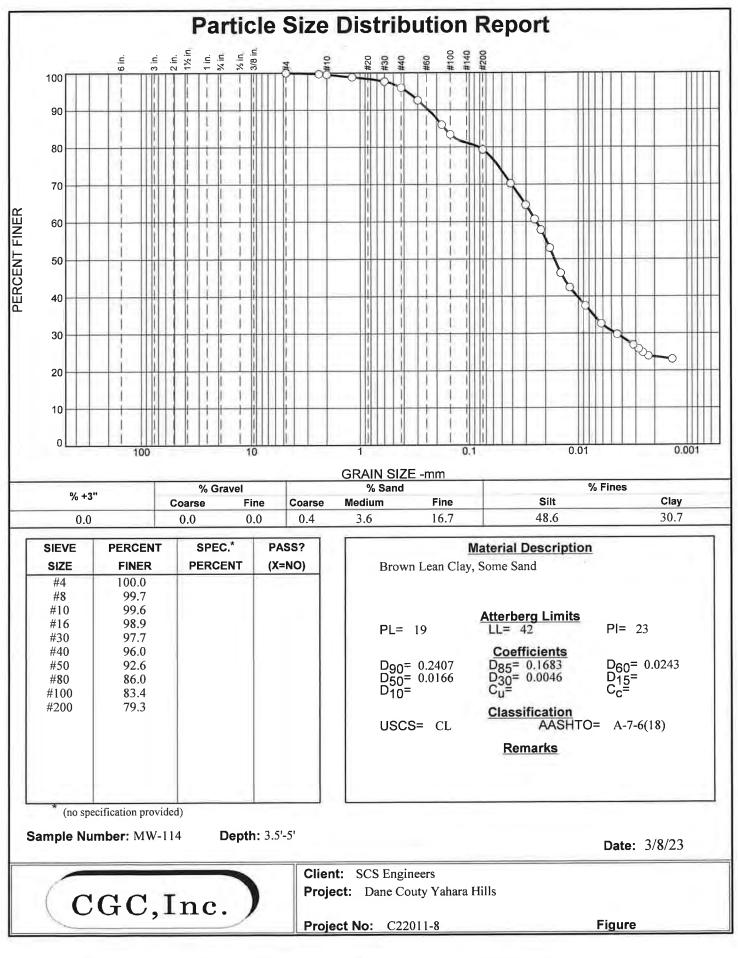
- Purged using both monsoon pump and bailer (due to freezing of monsoon pump)

Name and Address of Facility Contact /Owner/Responsible Party         First       Last         Name:       Allison	I hereby certify that the above information is true and correct to the best of my knowledge.
Facility/Firm: Dane County Dpt. of Waste & Renewables	Signature: <u>Chan Schaefer</u>
Street: 1919 Alliant Energy Center Way	Print Name: Ethan Schaefer
City/State/Zip: Madison, WI 53713	Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

NOTE: See instructions for more information including a list of county codes and well type codes.



Checked By: KJS



Checked By: KJS

MW-114A

State of Wisconsin Department of Natural Resources

Route To:

Watershed/Wastewater Remediation/Redevelopment

Waste Management Other

SOIL BORING LOG INFORMATION Form 4400-122

Rev. 7-98

											Page	1 of 3	
		License/Permit/Monitoring Number Boring Number											
	SCS#: 25222268.00												
		Date Dril	ling St	arted		Da	te Drilli	ng Con	npleted		Drilling Method		
			2/15	2022				2/6/2	022		HSA, 4.25" IE		
DNR Well ID No						Surfac			023	B			
		Tinai Stat			-1				151			" & 6"	
mated:  ) or Bori						0					0.5	<b>a</b> 0	
		Lat		°	<u> </u>					I	]	Feet 🗌 E	
of Section 25,	t 7 n, r 10 e	Long		°	<u> </u>	"						ΞΨ	
County				Civil T	own/C	ity/ or `	Village						
Dane		13		City	of Ma	ıdisor	l						
i								Soil	Prope	erties			
Soil/Ro	ock Description												
	-						u u					ts	
			S C	hic	am	<b>D</b>	lard rati	ent		city		RQD/ Comments	
Euci	i Mujor Oliit		$\mathbf{v}$	rapl og	/ell iagi		tanc	lois	iqui	lasti ndex	200	OD III	
				6 7	⊳ ∩	Р	N L	20	<u> </u>	P 1	P	C R	
(See MW-114 log for 1 Subsurface Exploration 50' bgs on 2/15-16/202 Soils & Engineering Se diameter using air rotat	ithology from 0 to 16' n Services cored hole 3. ervices, Inc. reamed h ry on 3/6/2023 and set	from 20' to ole to 6"											
	face Exploration S Engineering Servi DNR Well ID No. 	rew chief (first, last) and Firm face Exploration Services Engineering Services, Inc. DNR Well ID No. Common Well Name MW-114A mated: □ ) or Boring Location ⊠ -15 N, 2,168,485 E S/C/N -15 N	b. 3 (Proposed)       SCS#: 2522268.00         crew chief (first, last) and Firm       Date Drill         face Exploration Services       Engineering Services, Inc.         DNR Well ID No.       Common Well Name          MW-114A         mated:       ) or Boring Location         15 N, 2,168,485 E       S/C/N         Lat       Long         County       County County County         Dane       13         Blind drilled to 20' bgs.         Subsurface Exploration Services, Inc. reamed hole to 6"         diameter using air rotary on 3/6/2023 and set well	b. 3 (Proposed)       SCS#: 25222268.00         crew chief (first, last) and Firm       Date Drilling St         face Exploration Services       2/15/         Engineering Services, Inc.       2/15/         DNR Well ID No.       Common Well Name          MW-114A          MW-114A          MW-114A          MW-114A          MW-114A          Common Vell Name         -15 N, 2,168,485 E       S / C / N         At       Lat         of Section       25, T 7         N, R 10 E       Long         County       County Code         Dane       13         Soil/Rock Description       And Geologic Origin For         Each Major Unit       Soil         Subsurface Exploration Services cored hole from 20' to 50' bgs on 2/15-16/2023.         Soils & Engineering Services, Inc. reamed hole to 6''         diameter using air rotary on 3/6/2023 and set well	b. 3 (Proposed)       SCS#: 25222268.00         crew chief (first, last) and Firm       Date Drilling Started         face Exploration Services       2/15/2023         Engineering Services, Inc.       2/15/2023         DNR Well ID No.       Common Well Name          MW-114A         mated:       ) or Boring Location         15 N, 2,168,485 E       S/C/N         Lat          County       County Code         Dane       Civil T         Soil/Rock Description       And Geologic Origin For         Each Major Unit       Soil         Subsurface Exploration Services cored hole from 20' to 50' bgs on 2/15-16/2023.         Soils & Engineering Services, Inc. reamed hole to 6"         diameter using air rotary on 3/6/2023 and set well	b. 3 (Proposed)       SCS#: 25222268.00         crew chief (first, last) and Firm       Date Drilling Started         face Exploration Services       2/15/2023         DNR Well ID No.       Common Well Name          MW-114A          MW-114A         mated:       ) or Boring Location         15 N, 2,168,485 E       S / C / N         Lat          County       County Code         Dane       Civil Town/C         I3       Civil Town/C         Soil/Rock Description       And Geologic Origin For         Each Major Unit       Soil/Rock Description         Subsurface Exploration Services cored hole from 20' to 50' bgs on 2/15-16/2023.       Soils & Engineering Services, Inc. reamed hole to 6"         Goiges on 2/15-16/2023.       Soil/2023 and set well       Soil	b. 3 (Proposed)       SCS#: 25222268.00         crew chief (first, last) and Firm       Date Drilling Started       Date Drilling Started         face Exploration Services       2/15/2023         Engineering Services, Inc.       2/15/2023         DNR Well ID No.       Common Well Name          MW-114A          MW-114A          MW-114A          MW-114A          Kaster Level          MW-114A          Lat          MW-114A              MW-114A              Kaster Level          Scill Contor   Dane	b. 3 (Proposed)       SCS#: 25222268.00       Date Drilling Started       Date Drilling Started         b. arew chief (first, last) and Firm       Date Drilling Started       Date Drilling Started       Date Drilling Started         face Exploration Services, Inc.       2/15/2023       2/15/2023       Date Drilling Started       Date Drilling Started         DNR Well ID No.       Common Well Name       Final Static Water Level       Surface Elevat          MW-114A        897.1 F         mated:       □ ) or Boring Location       □       Lat       ''      '         e of Section       25, T 7       N, R 10 E       Long      '      '          County       County Code       Civil Town/City/ or Village       City of Madison	b. 3 (Proposed)       SCS#: 2522268.00       Image: constraint of the prime of the prima of the prime of the prime of the prime of the prima of the pr	b. 3 (Proposed)       SCS#: 25222268.00       MW-         crew chief (first, last) and Firm       Date Drilling Started       Date Drilling Completed         face Exploration Services       2/15/2023       3/6/2023         DNR Well ID No.       Common Well Name       Final Static Water Level       Surface Elevation          MW-114A        897.1 Feet MSL         mated:       ] ) or Boring Location       Itat          Itacal Grid Location         +15 N, 2,168,485 E       S/C/N       Lat          Ital Local Grid Location       Feet IN         + of Section       25, T 7 N, R 10 E       Long	b. 3 (Proposed)       SCS#: 2522268.00       MW-114/         rew chief (first, last) and Firm       Date Drilling Started       Date Drilling Completed         face Exploration Services       2/15/2023       3/6/2023         DNR Well ID No.       Common Well Name       Final Static Water Level       Surface Elevation       Be          MW-114A        897.1 Feet MSL       Be         mated:       ) or Boring Location       Image: County Code       Image: County Code       Image: County Code       Image: County Code       Civil Town/City/ or Village         County       County Code       Civil Town/City/ or Village       Soil/Rock Description       Soil/Rock Description       Soil/Rock Description       Soil/Rock Description       Soil/Rock Description       Soil Properties         Soil/Rock Description       Soil/Rock Description       Soil See MW-114 log for lithology from 0 to 16' bgs.)       Subsurface Exploration Services cored hole from 20' to 50' bgs on 2/15-16/2023.       Soils & Engineering Services, Inc. reamed hole to 6''       Soils & Engineering Services, Inc. reamed hole to 6''       Soil Second Services, Inc. reamed hole to 6''       Soil Second Services, Inc. reamed hole to 6''	License/Permit/Monitoring Number b. 3 (Proposed) SCS#: 25222268.00 Trew chief (first, last) and Firm face Exploration Services Engineering Services, Inc. DNR Well ID No. Common Well Name  MW-114A  DNR Well ID No. Common Well Name  MW-114A  Surface Elevation MW-114A  Surface Elevation Borehole 897.1 Feet MSL 8.3 County Date Drilling Started 2/15/2023 3/6/2023 Air Borehole 897.1 Feet MSL 8.3 County County Code County Code County Code County Code County Code County Code 13 County Code Civil Town/City/ or Village City of Madison Soil/Rock Description And Geologic Origin For Each Major Unit Soil/Rock Description And Geologic Origin For Each Major Unit Soil Properties Soil Propert	

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

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

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.

#### SOIL BORING LOG INFORMATION SUPPLEMENT Form 4400-122A

Boring	g Numb	er	MW	V-114A Use only as an attachment to Form 4400-1	.22.											Page	2 of 3
San	nple											So	i1 ]	Prop	erties		
ber ſype	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	C S	hic		ram	FID	lard	renetration	ture	ent	t id	icity <	0	RQD/ Comments
Number and Type	Leng Reco	Blow	Dept		U S O	Graphic Log	Well	Diagram	PID/FID	Standard	rene	Moisture	Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comm
				Blind drilled to 20' bgs.													
			- 16														
			-17														
			-18														
			-19														
			20	SANDSTONE (SS2), white (2.5Y 8/1), light gray (2.5Y 7/1), gray (2.5Y 5/1), pale brown (2.5Y 7/4), and reddish yellow (7.5YR 6/8), fine to medium		· · · · · ·											
			-21	and reddish yellow (7.5YR 6/8), fine to medium grained, well sorted, planar to cross-bedded. (Ancell Group, St. Peter Formation, Tonti Member)													
	10		-22	(Ancell Group, St. Peter Formation, Tonu Member)	SS2												
Run 1	48		-23														FF=3.5/ft Percent Recovery=80%
			-24	SANDSTONE (SS3), gray (2.5Y 5/1), black (2.5Y													RQD=9%, very poor
			-25	2.5/1), reddish brown (5YR 4/4), and light greenish													
				gray (Gley 1 5GY 7/1), fine to coarse grained, poorly sorted, with clay and coarse clasts of dolomite. (Ancell Group, St. Peter Formation, Readstown													
			-26	Member)													
Run	18		-27 		SS3												FF=2.67/ft
2	10		-28														Percent Recovery=30% RQD=0%, very
			-29														poor
_			30														
			-31	DOLOMITE (DL3), gray (5Y 5/1) and light gray (5Y 7/1), massive to planar laminated bedding, with													
			-32	greenish gray (Gley 1 5GY 5/1) clay and white sand within fractures. (Prairie du Chien Group, Shakopee Formation, Willow													
Run	60			River Member)													FF=2.66/ft
3			-33														Percent Recovery=82% RQD=65%, fair
			-34														
			35		DL3												
			-36														
			-37														
Run 4	44		-38														FF=2.18/ft Percent
																	Recovery=73% RQD=27%, poor Last 1.5' of run
			-39														was sticky and washed out in cuttings.
L			-40			<b>–</b>	<b>¦∵</b>	151									

#### SOIL BORING LOG INFORMATION SUPPLEMENT Form 4400-122A

Borin	g Numł	ber	MW	V-114A Use only as an attachment to Form 4400-1	22.								Page	3 of 3
Sar	nple									Soil	Prope	erties		
	. & (in)	ats	eet	Soil/Rock Description										
er /pe	n Att ered	Cour	In F	And Geologic Origin For	S	<u>е</u> .	E	Θ	urd atio1	ire 1		ity		lents
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Each Major Unit	USC	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
Run 5	48	B	-41 -42 -43 -44	SANDSTONE (SS), yellow (2.5Y 7/8) and light gray (2.5Y 7/1), fine to coarse grained, poorly sorted, dolomitic, with chert clasts and green clay within fractures. (Prairie du Chien Group, Shakopee Formation, New Richmond Member)					<u>N</u> 4	O		P	ď	FF=4.25/ft Percent Recovery=80% RQD=14%, very poor
Run 6	60		45 46 47 48 49 50	More dolomitic, sandstone is cemented with dolomite. Kh = 9.60E-04 cm/s End of boring at 50' bgs in sandstone. Reamed hole to	DL3									FF=3/ft Percent Recovery=100% RQD=26%, poor
				6" diameter using air rotary and constructed well from 49.3' bgs.										

ť

	Watershed/Wastewater	Waste Managemen X	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name Dane County Landfill Site No. 3 (Proposed)	Local Grid Location of Well	<u></u>	Well Name MW-114A
Facility License, Permit or Monitoring No.	Local Grid Origin (estimation	ated:) or Well Location	Wis. Unique Well No. DNR Well ID No. WD859
Facility ID	St. Plane 378415.03 ft. N	and the second se	
Type of Well Well Code/_PZ	Section Location of Waste/Sou <u>SW</u> 1/4 of <u>SE</u> 1/4 of Sec. Location of Well Relative to <u>W</u>	<u>7, T7</u> N, R10	m         d         v         v         v           W         Well Installed By: Name (first, last) and Firm         Scott Klumb         Scott Klumb
Distance from Waste/ Enf. Stds.	u Upgradient s	Sidegradient	Soils &Engineering Services, Inc.
Source     ft.     Apply       A. Protective pipe, top elevation	d Downgradient n 899.67 ft. MSL	Not Known   1. Cap and lock	
B. Well casing, top elevation	899.66 ft. MSL	2. Protective co a. Inside dian	ver pipe:
C. Land surface elevation	897.1 ft. MSL	b. Length:	$-\underline{-5} ft.$
D. Surface seal, bottom 862.6 ft. M	SL or _ 34.5 ft.	c. Material:	Steel 🔀 04 Other
12. USC <u>S classification of soil near scree</u>		d. Additional	
	sw sp 🗌 🔪 🔢	If yes, des	
SM SC ML MH		3. Surface scal:	$\begin{array}{c c} \mathbf{Bentonite} & \mathbf{X} & 30 \\ \mathbf{Concrete} & 01 \end{array}$
13. Sieve analysis performed?	Yes No	N	
U	tary 🔀 5 0	4. Material betw	ween well casing and protective pipe:
Hollow Stem A	uger 41	Filter Sand	Bentonite 30 Other X
100		5. Annular space	e seal: a. Granular/Chipped Bentonite X 33
15. Drilling fiuid used: Water 0 2 Drilling Mud 0 3	Air $\times$ 01 None 99		gal mud weight Bentonite-sand slurry 35
			gal mud weight Bentonite slurry $31$ ntonite Bentonite-cement grout $50$
16. Drilling additives used?	Yes XNo		<u>3</u> Ft <sup>3</sup> volume added for any of the above
Describe N/A		f. How insta	
17. Source of water (attach analysis, if req	uired):		Tremie pumped 🔀 02 Gravity 🔀 08
N/A		6. Bentonite sea	al: a. Bentonite granules 33
E. Bentonite seal, top897.1 ft, MS	SL or $\_\_\_\_^0$ ft.		3/8 in. 1/2 in. Bentonite chips 3 2 bentonite pellets Other X
F. Fine sand, top862.6 ft. MS	SL or $_{-}_{-}_{-}_{-}_{-}_{-}_{-}_{-}_{-}_{-}$	7. Fine sand ma	eterial: Manufacturer, product name & mesh size #15
G. Filter pack, top855.5 ft. MS	SL or $41.6$ ft.	b, Volume a	
H. Screen joint, top 853.1 ft. MS	SL or44 ft.	- 🗍 🖊 a	Red Flint #40
I. Well bottom 847.8 ft. MS	SL or49.3 $\Omega$ .	b. Volume a 9. Well casing:	Flush threaded PVC schedule 40 🔀 23
J. Filter pack, bottom847.1 ft. MS	SL or $\_$ $\_$ $\stackrel{50}{=}$ ft.		Flush threaded PVC schedule 80 2 4
K. Borchole, bottom847.1 ft. MS	$L \text{ or } \_ \_ \_ 50 \text{ ft.}$	10. Screen mater a. Screen ty	pe: Factory cut 🔀 11
<b>L.</b> Borehole, diameter $-\frac{6.0}{-}$ in.		×	Continuous slot 0 1 Other 0
<b>M.</b> O.D. well casing $-2.38$ in.		b. Manufactu c. Slot size: d. Slotted le	0. <u>01</u> in.
N. I.D. well casing $-\frac{2.07}{}$ in.		IN IN A STATE OF A STA	ingli:        0 it.           crial (below filter pack):         None X 14           Other0         000000000000000000000000000000000000
I hereby certify that the information on this		best of my knowledge.	
Signature	Firm SCS EN	JGINEERS. 2830 Dairy Dr	rive. Madison. WI 53718

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.

State of Wisconsin Department of Natural Resources

#### MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Wast	And the second second	Waste Management	$\mathbf{X}$	
Remediation/Rec Facility/Project Name Dane County Landfill No. 3 (Proposed)	County Name	Other	Well Name	MW-114A
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well No. WD85		DNR Well ID Number
<ul> <li>2. Well development method <ul> <li>surged with bailer and bailed</li> <li>surged with bailer and pumped</li> <li>surged with block and bailed</li> <li>surged with block and pumped</li> <li>surged with block, bailed and pumped</li> <li>compressed air</li> <li>bailed only</li> <li>pumped only</li> <li>pumped slowly</li> <li>Other</li> </ul> </li> <li>3. Time spent developing well <ul> <li>4. Depth of well (from top of well casisng)</li> </ul></li></ul>	$ \begin{array}{c cccc} 41 \\ 61 \\ 42 \\ 62 \\ 70 \\ 20 \\ 10 \\ 51 \\ 50 \\ \hline 105 \\ \hline 10$		a. $-\frac{5}{m}$ . b. $\frac{03}{m} / \frac{13}{d}$ c. $-\frac{2}{05}$	5 Turbid 2 5 (Describe)
	1 4 gal.	Fill in if drilling fluid	is were used ar	nd well is at solid waste facility:
	<u>0.0</u> gal.	14. Total suspended solids		mg/1 <u>924</u> 0 mg/i
9. Source of water added NA		15. COD		mg/lmg/l
<ul> <li>10. Analysis performed on water added? Y (If yes, attach results)</li> <li>17. Additional comments on development:</li> </ul>	Kes X No	16. Well developed b First Name: Bridge Firm: SCS ENGIN	t	ast) and Firm Last Name: Russell Dairy Drive, Madison, WI 53718

- 10 well volumes = 114 gallons

- Surged and purged 30 minutes, surged/purged 20 min with bailer and 3.5 gallon, did more surge/purge with pump

- 5 min to fill bucket

Name and Address of Facility Contact /Owner/Responsible Party         First       Last         Name:       Allison	I hereby certify that the above information is true and correct to the best of my knowledge.
Facility/Firm:Dane County Dpt. of Waste & Renewables	Signature: Brilget Rundl
Street: 1919 Alliant Energy Center Way	Print Name: Bridget Russell
City/State/Zip: Madison, WI 53713	Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

NOTE: See instructions for more information including a list of county codes and well type codes.

B-115C

State of Wisconsin Department of Natural Resources

Route To:

Watershed/Wastewater Remediation/Redevelopment

Waste Management Other

SOIL BORING LOG INFORMATION Form 4400-122

Rev. 7-98

												Page	1 of 3
Facility/Project Name			License/Permit/Monitoring Number Boring Number B-115C										
Dane County Landfill No. 3 (Pro		SCS#: 25222268.00		.11. 0	1			· D 11					11: ) ( 1 1
Boring Drilled By: Name of crew chie	ef (first, last) a	nd Firm	Date D	rilling S	tarted		D	ate Drill	ing Coi	npleted	l	Drilling Method	
Dylan Martin Subsurface Exploration Servi	1005			2/16			2/17/2	HSA 4.25" II NQ Core					
	ell ID No.	Common Well Name	Final S				Surfa	ce Eleva		2025	I		e Diameter
Distriction			1 1111 5			•		896.3 1		ASL	1		.3" & 3"
Local Grid Origin (estimated:	) or Bor	ing Location					`	Local (				0	
State Plane 378,504 N	1, 216,031	E S/C/N		.at	°				Fee	t 🗆 N	J		Feet 🗌 E
SE 1/4 of SE 1/4 of Secti	ion 25,	t 7 n, r 10 e	Loi		°	<u> </u>					5		□ W
Facility ID C		County C	ode			•	Village						
	Dane		13		City	of M	adiso	n					
Sample									Soil	Prop	erties	5	_
et s k	Soil/R	ock Description											
Att.	And Ge	ologic Origin For						l ion	0		N		nts
gth I	Eac	h Major Unit		CS	phic	1	FIL	idar	stur	it di	ticit		)/
Number and Type Length Att. & Recovered (in) Blow Counts Depth In Feet				U S	Graphic Log	Well	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity	P 200	RQD/ Comments
- Blind dr	rilled to 12' bgs												
- (See MV	N-115 log for l	ithology from 0' to 15.	5' bgs.)										
-2													
-3													
					<i>,</i>								
	4ITE (DL4), li /8). sandv. mas	ght gray (2.5Y 7/1) and sive to planar laminate	d yellow d			-							
-13 bedding	, with round, o	val, and elongated vug	s, chert,										
Run 34 Firactures	s, trace glaucor	d green clay within son	ne	DL4		4							FF=1.77/ft
1	du Chien Grou	p, Oneota Formation).											Percent Recovery=94%
						-							RQD=30%, poor
	this form is to	na and compated to the h	act of my 1						1	1	1		

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

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.

## SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

	g Numb	ber	<u>B-1</u>	15C Use only as an attachment to Form 4400-12	2.								Page	2 of 3
Sar	nple									Soil	Prop	erties		-
	& (in)	ts	set	Soil/Rock Description										
r pe	Att. red	oun	n Fe	And Geologic Origin For	S	0	я		tion	e t		ty		ents
Number and Type	ngth cove	Blow Counts	Depth In Feet	Each Major Unit	sC	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	00	RQD/ Comments
Nu	Length Att. & Recovered (in)	Blc	Dej		Ŋ	Grap Log	Well Diagr	IId	Sta Per	C <sub>0</sub>	Lig Lin	Plastic Index	P 200	RQ Coi
Run 2	48		16 	DOLOMITE (DL4), light gray (2.5Y 7/1) and yellow (2.5Y 7/8), sandy, massive to planar laminated bedding, with round, oval, and elongated vugs, chert, and dendrites, gray and green clay within some fractures, trace glauconite. (Prairie du Chien Group, Oneota Formation).										FF=2/ft Percent Recovery=80% RQD=42%, poor
Run 3	60		20 21 22 23 24 24		DL4									FF=3.4/ft Percent Recovery=100% RQD=35%, poor
Run 4	60		-26 -27 -28 -29	Light gray (2.5Y 7/1), dark gray (2.5Y 4/1), and yellow (2.5Y 7/8).										FF=3.4/ft Percent Recovery=100% RQD=18%, very poor
Run 5	30		-30 -31 -32 -33 -34	DOLOMITIC SANDSTONE (DL4), white (2.5Y 8/1) and light gray (2.5Y 7/1), with greenish gray (GLEY 1										FF=3.2/ft Percent Recovery=50% RQD=8%, very poor
Run 6	57.5		-35 -36 -37 -38 -39 -40	5GY 5/1) clay. (Prairie du Chien Group, Oneota Formation).	DL4									FF=3.55/ft Percent Recovery=95% RQD=44%, poor

#### SOIL BORING LOG INFORMATION SUPPLEMENT Form 4400-122A

Sam	ıple	ber	<u>B-1</u>	Use only as an attachment to Form 440						Soil	Prop			3 of
	<b>&amp;</b> (in)	ts	et	Soil/Rock Description										
e	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	And Geologic Origin For			ц ц		Standard Penetration	9		L7		RQD/ Comments
Ty	gth ove	M M	th L	Each Major Unit	C S	phic	ll gran	PID/FID	ndar etrat	Moisture Content	uid nit	sticit	0	D/
and Type	Len Rec	Blo	Dep		USC	Graphic Log	Well Diagram	PID	Star Pen	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQ
				End of boring at 40' bgs in dolomitic sandstone. Abandoned with bentonite grout and bentonite chips.										

	Dept.	of Natural	Resources	SCS No.	25222268.	00
dnr.wi.gov		1				

### Well / Drillhole / Borehole Filling & Sealing Report Page 1 of 2

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.

			Route	to DNR Bureau:								
Verification Only	of Fill and Se	al	D	rinking Water		Watershed/W	Vastewater	Remedia	ation/Redevelopment			
			XW	aste Manageme	nt 🗌	Other:						
1. Well Location Inform	nation				2. Facility	/ Owner Int	formation					
County	WI Unique Well #	of	Hicap #		Facility Nam				10			
Dane	Removed Well		В	-115C		-	I No.3 (Propose	∋d)				
Latitude / Longitude (see in	structions)	Format		Method Code	Facility ID (FID or PWS)							
5	Ň			GPS008	License/Permit/Monitoring #							
	w		DM	SCR002	License/Peri	nit/ivionitoring	#					
1/4 / 1/4 SE 1/4 SE	Section	Tow	nship	Range 🗙 E								
or Gov't Lot #	25		7 N	10 🗍 w			tment of Waste	and Renev	wables			
Well Street Address					Present Wel							
7101 US Highway 12	& 18						ment of Waste	and Renev	wables			
Well City, Village or Town				ZIP Code	-	ess of Preser						
Madison, WI			537		City of Prese		Center Way	State	ZIP Code			
Subdivision Name			Lot #		Madison	ent Owner		State WI	53713			
						iner Scree	en, Casing & Se					
Reason for Removal from S	Service VVI Un	ique Well	# of Re	placement Well		piping remov			Yes No X N//			
Temporary Borehole 3. Filled & Sealed Wel	l/Drillbala/B	robolo	Inform	ation	Liner(s) re				Yes No N/			
				(mm/dd/yyyy)	Liner(s) p	erforated?			Yes 🗌 No 🔀 N/A			
Monitoring Well	J		16/202		Screen re	moved?			Yes 🗌 No 🗙 N//			
Water Well	If a Mall (				Casing let	t in place?			Yes 🗌 No 🗙 N/A			
X Borehole / Drillhole	please at		on Repu	ort is available,	Was casir	ng cut off belo	w surface?	יח	Yes No XN//			
Construction Type:					Did sealin	g material rise	e to surface?	ı 🗙	Yes 🗌 No 🗌 N/#			
X Drilled	Driven (Sandpoint)		Dug	J	Did mater	ial settle after	24 hours?	X	Yes 🗌 No 🗌 N/A			
Other (specify):	,					was hole ret		X	Yes No N/A			
Formation Type:							used, were they hy n safe source?	drated X	Yes No N/A			
X Unconsolidated Form	ation [	X Bedro	ock		Required Me	thod of Placi	ng Sealing Material					
Total Well Depth From Gro	und Surface (ft.)	Casing [	Diameter	r (in.)		ctor Pipe-Gra	vity 🔀 Conducto	or Pipe-Pumpe	ed			
40		NA				ed & Poured nite Chips)	Other (Ex	plain):				
Lower Drillhole Diameter (i	n.)	Casing [	Depth (ft	.)	Sealing Mate	erials						
8.3 to 3.0		NA				ement Grout Cement (Cond		Bentonite				
Was well annular space gro	uted?	] Yes	X No	Unknown			Monitoring Well Bo	Bentonite				
If yes, to what depth (feet)?	Dept	h to Wate	er (feet)		Bentor	ite Chips	Bent	tonite - Ceme	nt Grout			
NA	~3.	3			Granul	ar Bentonite	Bent	tonite - Sand	Slurry			
5. Material Used to Fil	l Well / Drillhol	е			From (ft.)	To (ft.)	No. Yards, Sacks Volume (circ		Mix Ratio or Mud Weight			
3/8" Bentonite Chips					Surface	2	50 lbs		dry mix			
Bentonite Grout					2	40	24-gallo	ons	2lbs/gal			
6. Comments												
Boring B-115C												
7. Supervision of Wor	k							DNR Use	Only			

1. Supervision of Work	CHARLES - THE BOARD	collected when the second of the	in the second		DN	N USE Only
Name of Person or Firm Doing Filling & Sealing	Licens	e#	Date of F	illing & Sealing or Verification	Date Received	Noted By
Subsurface Exploration Services			(mm/dd/y	ууу) 02/17/2023		
Street or Route			Т	elephone Number	Comments	
2900 Lowell Dr.			(	(920)544-4226		
City	State	ZIP Code		Signature of Person Doing V	Vork	Date Signed
Green Bay	WI	543	311	a di		02/17/2023

MW-115

State of Wisconsin Department of Natural Resources

Route To:

Watershed/Wastewater Waste Management Remediation/Redevelopment Other

SOIL BORING LOG INFORMATION Form 4400-122

Rev. 7-98

				Remediation		Oth	er 🗀									
															Page	1 of 2
	y/Projec						nse/Permit/	Monitor	ring Nu	mber		Boring				
				No. 3 (Proposed) f crew chief (first, last)	SCS#: 25222268.00		Drilling St	arted		Dat	e Drilli	ng Con	MW-		Drill	ing Method
	y Kap	2	vanie 0	r erew enter (first, fast)		Date	Drining 50	ancu		Dat	C DIIII	ing Con	iipicicu			A, 4.25" ID
On-	site E	nviro	nment	al Services, Inc.			1/12	/2023				1/13/2	2023		115	л, т.25 пр
	ique W			DNR Well ID No.	Common Well Name	Final						rehole	Diameter			
		0840			MW-115		892.1	Feet M	MSL			Feet M			8	.3"
	Grid Or	igin		stimated: $\Box$ ) or Bo			Lat	0	,	"	Local C	Grid Loo				
State SE		c Cl		,504 N, 2,169,031				。	,			Feet			]	Feet E
SE Facilit		of S	C I	/4 of Section 25, County	t 7 n, r 10 e	County	ong	Civil To	own/Ci	 tv/ or V	/illage					□ W
1 denne	уш			Dane		13	code	City of		•	•					
San	nple			Duile		10			51 IVIG	aiboii		Soil	Prope	erties		-
	· ·			Soil/	Rock Description											
	tt. & d (in	unts	Fee		Beologic Origin For						ч					ts
ber	th A vere	Co	Ч		ich Major Unit		CS	hic	am	Ð	lard	ture	ح	city	-	nen
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet				U S O	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	200	RQD/ Comments
<u>a N</u>		щ		SII T (MI ) very dark	grayish brown (10YR 3	3/2)		<u>, 17. vi</u>		Ч	NH			ЦЦ	Р	<u> </u>
			E	organic rich, with roc	ots. (Topsoil)	572),	ML	1/ 1/								
								<u></u>								
			E_2	LEAN CLAY (CL),	yellowish brown (10YR	5/4),		····								
S1	47		Ē	uniform, massive, tra	trace gravel, stiff, cohes ce roots. (Loess)	sive,					1.0	M/W				Depth to water
51			-3								1.0	101/ 00				measured at 3' bgs.
			Ē				CL									0.50
			-4													
			Ē													
			= 5	SILTY SAND (SM),	brown (7.5YR 5/4), mc coarse sand and some c	ostly fine	;									
			E_6	and coarse gravel (mo	ostly dolomite), uniform	, massive										
			Ē	very soft. (Till) (Holy Member)	Hill Formation, Horico	n										
			-7	Weinbery												
S2	53		Ē				SM					W				
			8 													
			E_9	Kh = 1.71E-02  cm/s												
			Ē		AND (CM)											
-			-10	At 9' to 10', SILTY S % g-s-si-c1 = 29-44-2	0-8			64C								
S3	12		E	SILTY GRAVEL (G	M), light olive brown (2 ne to coarse sand, silt, a	2.5Y 5/6)		6Pl<				W				Refusal with geoprobe at 11'
			E 11	(Weathered Dolomite	Bedrock)	ind clay.	GM	[of								bgs. Drilled with HSA from 0' to
			-12	Pale brown (2.5Y 7/4	) with trace silt.			6 Dec								15.5' bgs and sampled off the
				DOLOMITE (DL4) See log B-115C.												auger.
			-13	(Prairie du Chien, Or	eota Formation).											
							DL4									
			- 14					<u> </u>								
			E 	White (2.5Y 8/1) and	pale brown (2.5Y 8/2).			<u> </u>								
			1.1.2					1			I	1	1			

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

Signature	n	F	Firm	SCS Engineers
	ht	Adam Watson		2830 Dairy Drive, Madison, WI 53718
	0			

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.

## SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring	g Numl	ber	MW	V-115 Use only as an attachment to Form 4400-1	22.								Page	2 of 2
San	nple			,						Soil	Prope		0-	
	&	ıts	eet	Soil/Rock Description					_					
er /pe	n Att ered	Cour	In F	And Geologic Origin For	S	.2	E H	A	ation	nt e		ity		ients
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Each Major Unit	I S C	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
a Z	ЧК	В		DOLOMITE (DL4)	DL4			Р	N L	20		P 1	Р	2 Y U
			-	See log B-115C. (Prairie du Chien, Oneota Formation).	DET		<u></u>							
				End of boring at 15.5' bgs in dolomite. Constructed										
				well from 15.3' bgs.										

State of Wisconsin Department of Natural Resources <u>Route to:</u>	Watershed/Wastewater	Waste Managemen X	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name Dane County Landfill Site No. 3 (Proposed	Local Grid Location of Well		Well Name MW-115
Facility License, Permit or Monitoring No			Wis. Unique Well No. DNR Well ID No.
Facility ID	St. Plane <u>387503.89</u> ft. N Section Location of Waste/Sou	2169031.39 ft. E. S/C/N	Date Well Installed $\frac{01}{m}$ $\frac{13}{d}$ $\frac{13}{y}$ $\frac{2023}{y}$
Type of Well Well Code <sup>11</sup> / MW		7 <b>N, R</b> 10 🛱 🖬 🗰	Well Installed By: Name (first, last) and Firm Scott Klumb
Distance from Waste/ Enf. Stds.	Location of Well Relative to W u Upgradient s	Sidegradient Gov. Lot Number	Soils & Engineering Services, Inc.
Sourceft. Apply	d Downgradient n	Not Known	
A. Protective pipe, top elevation	<u>899.28</u> ft. MSL	1. Cap and lock?	nine:
B. Well casing, top elevation	_ <sup>899.25</sup> ft. MSL	a. Inside diamete	4
C. Land surface elevation	896.3 ft. MSL	b. Length:	_ <u>5</u> ft.
	1SL or 4 ft.	c. Material:	Steel 🗙 04
12. USCS classification of soil near scre		d. Additional pro	Other L Detection? L Yes X No
GP GM GC GW		If yes, describ	
			Bentonite 🔀 30
Bedrock		3. Surface scal:	Concrete 01
			Other
		4. Material between	n well casing and protective pipe: Bentonite 30
Hollow Stem A	Other	Filter Sand	Other 🔀 🏬
a		5. Annular space se	
15. Drilling fiuid used: Water 0 2	Air 0 1		mud weight Bentonite-sand slurry 35
Drilling Mud $0 3$	None ¥ 99		mud weight Bentonite slurry 🛄 3 1
16. Drilling additives used?	Yes XNo		Bentonite-cement grout 50
		6660	volume added for any of the above 2, 5016 bags Tremie 01
Describe <u>N/A</u>		f. How installed 1ft^3/bag benton:	
17. Source of water (attach analysis, if rea	juired):	0.5ft^3/sand bag	Gravity 🗙 08
N/A		6. Bentonite seal:	a. Bentonite granules 33
E. Bentonite seal, top896.3 ft. M	SL or0ft.	b. $\_/4$ in. $\boxtimes$	3/8 in.         1/2 in.         Bentonite chips         3 2           Other         Other
F. Fine sand, topft. M	SL or ft.	7. Fine sand møteri	al: Manufacturer, product name & mesh size
G. Filter pack, top892.3 ft. M	SL or 4 ft.	a. b. Volume adde	d ft <sup>3</sup>
			rial: Manufacturer, product name & mesh size
H. Screen joint, top 891.3 ft. M	SL or $\_$ $\_$ $5 ft.$	a b. Volume adde	RW Sidley #5
I. Well bottom 881.0 ft. M	SL or15.3 ft.	9. Well casing:	Flush threaded PVC schedule 40 🔀 23
J. Filter pack, bottom 880.8 ft. M	SL or5.5 ft.	<u> </u>	Flush threaded PVC schedule 80 2 4
K. Borehole, bottom880.8 ft. M	SL or15.5ft.	10. Screen material: a. Screen type:	Factory cut 🔀 11
L. Borehole, diameter $-\frac{8.3}{-1}$ in.		×	Continuous slot 🗌 01
M. O.D. well casing $-2.38$ in.		b. Manufacturer c. Slot size:	0 <u>01</u> in.
2.07		d. Slotted lengt	
N. I.D. well casing $2.07$ in.		11. Backfill materia	1 (below filter pack):         None X 14           Other
I hereby certify that the information on th	is form is true and correct to the	best of my knowledge.	
Signature	Firm		
(h th	SCS EN	IGINEERS, 2830 Dairy Drive	, Madison, WI 53/18

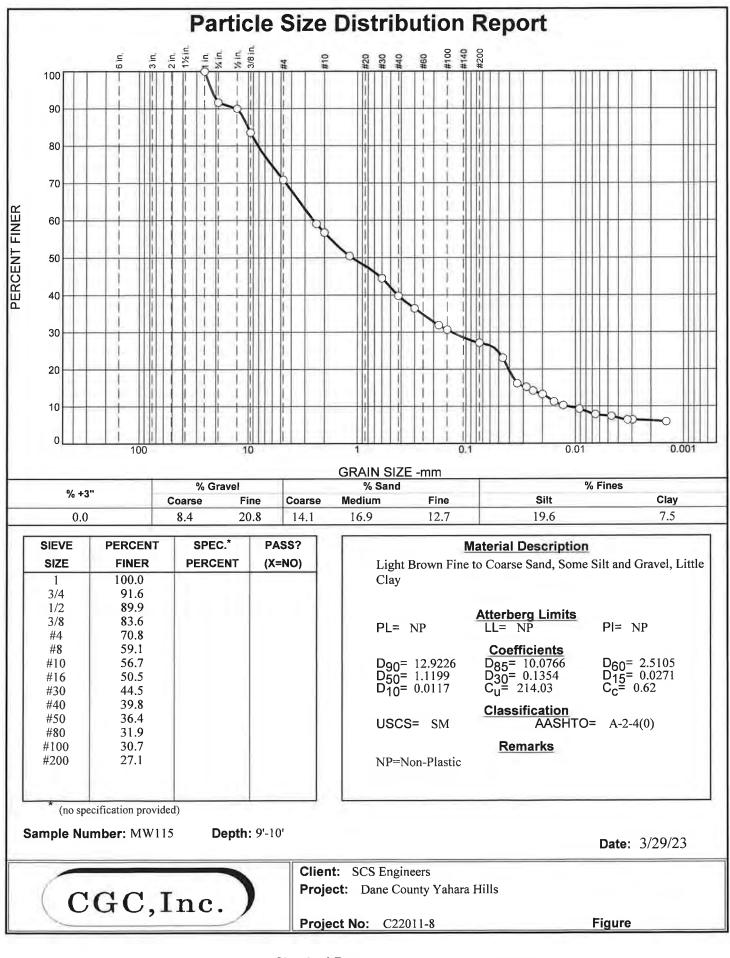
Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, 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.

State of Wisconsin Department of Natural Resources

#### MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Wast Remediation/Re		Waste Management		
Facility/Project Name	County Name		Well Name	
Dane County Landfill No. 3 (Proposed)		Dane		MW-115
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well N WD84		DNR Well ID Number
2. Well development method         surged with bailer and pumped         surged with block and bailed         surged with block and pumped         surged with block, bailed and pumped         surged with block, bailed and pumped         surged with block, bailed and pumped         compressed air         bailed only         pumped only         pumped slowly         Other         3. Time spent developing well         4. Depth of well (from top of well casisng)         5. Inside diameter of well         2.         6. Volume of water in filter pack and well casing         7. Volume of water removed from well	42 62 70 20 10 51 50 $-\frac{78}{10}$ min. $\frac{5}{6}$ ft. $\frac{07}{-}$ in. $\frac{9}{5}$ gal. $\frac{0}{20}$ gal.	<ul> <li>14. Total suspended solids</li> <li>15. COD</li> <li>16. Well developed to First Name: Ethan</li> </ul>	a. $$	mg/l        2.5 (Describe)         mg/l        24,300       0 mg/l
- Pump rate: 2.22gpm - Pumped 88.26 gallons and it went clear Name and Address of Facility Contact /Owner/Responsil First Last During Last	ble Party			formation is true and correct to the best
Name: Allison Name: Rathsack		of my knowledge.		
Facility/Firm: Dane County Dpt. of Waste & Ren	ewables		an Schi	aefer
Street: 1919 Alliant Energy Center Way		Print Name: Ethan	Schaefer	
City/State/Zip: Madison, WI 53713				30 Dairy Drive, Madison, WI 53718

NOTE: See instructions for more information including a list of county codes and well type codes.



Tested By: JFS

Checked By: KJS

MW-116

Route To:

Watershed/Wastewater Remediation/Redevelopment

Waste Management Other

SOIL BORING LOG INFORMATION Form 4400-122

Rev. 7-98

															Page	1 of 2	
	y/Proje					License/	Permit	/Monito	ring N	Jumber		Boring					
				No. 3 (Proposed)	SCS#: 25222268.00		11: 0						MW-		5.11		
	-	•	Name of	Crew chief (first, last) ar	id Firm	Date Dri	lling S	tarted		Da	te Drilli	ing Con	npleted		Drilling Method		
	tt Klu			Services, Inc.			1/10	3/2023				1/19/2	0000		HSA, 4.25" ID		
	ique W			DNR Well ID No.	Common Well Name	Final Sta				Surfac	e Eleva		2023	Bc	rehole	Diameter	
WI 01	-	D843	•		MW-116			Feet ]			01.4 I		ISI.			.3"	
Local	Grid Oi		(es	timated: 🗌 ) or Bori		`	572.1				Local C				0		
State		e		468 N, 2,169,728		La	ıt	°	<u> </u>					I		Feet 🗌 E	
SE		of S	E 1/	4 of Section 25,	t 7 n, r 10 e	Lon	g	°	<u> </u>	"						$\square W$	
Facilit	y ID			County		County Co	ode			City/ or	•						
				Dane		13		City	of M	adisor	1						
San	nple											Soil	Prope	erties			
	(ii) &	s	t l	Soil/Re	ock Description												
Ð	Ntt. e ed (j	unts	Fee	And Ge	ologic Origin For						E E			~		Its	
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		h Major Unit		CS	Graphic Log	Well	PID/FID	Standard Penetration	Moisture Content	L G	Plasticity Index		RQD/ Comments	
un]	eng	low	ept		<u>j</u>		S	Grap Log	Well	ID/	tanc	lois	Liquid Limit	Plastic Index	200	RQD/ Comr	
	L K	В			: 1.1 (10X7)	2/2)					P N	20		P II	Ъ	<u>~~</u> 0	
			E ł	SILT (ML), very dark g \organic rich, with roots	(10 Y R). (Topsoil)	3/2),	ML	<u></u>									
S1	22	03	-1	LEAN CLAY (CL), da	rk yellowish brown, (	10YR					1.0	M					
		33	E	4/4) with black mottlin cohesive, uniform, mas							1.75						
			-2	conesive, uniform, mas	sive, trace roots. (Loe	.55)	CL										
			E														
			-3														
			E, I														
S2	16	33 4	E-4	SILTY SAND (SM), st	trong brown (7.5YR 4	/6),					0.75	M					
		4	-5	mostly fine sand with n some clay, fine and coa	nedium to coarse sand arse gravel (mostly dol	l and lomite)											
			F	uniform, massive. (Till	) (Holy Hill Formation	n, Horicon											
_			E_6	Member)													
			Ē	Strong brown (7.5YR 5	5/6).		SM										
S3	14	35 3	-7									M					
		-	Ē														
			-8														
Г			F														
64	12.1	8/6" 82/	<u>-</u> 9	SANDSTONE (SS2),	vellow (10YR 8/8) sil	ltv mostlv						w					
S4	13 1	0/0/02/	ÉI	fine sand with medium	grained sand and fine	e gravel,						W				Driller noted harder soils at 9'	
			-10	uniform, massive. (Ancell Group, St. Pete	r Formation Tonti M	ember)										bgs. Depth to water at ~9' bgs.	
			Εl	(Ancen Group, St. Fele	i Politiduoli, Politi Wi	cilioci)											
			-11							÷.							
S5	9	100/4"	E, I									W					
00			E <sup>-12</sup>				SS2					"					
			F 12														
			[-13]														
			-14														
S6	3	100/1"	È''							; <b>1</b>		W					
			E-15							·.							
I hereb	ov certif	v that	the infor	mation on this form is tr	ue and correct to the b	est of my k	nowled	ge.									

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

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.

#### SOIL BORING LOG INFORMATION SUPPLEMENT Form 4400-122A

<u>MW-116</u> Use only as an attachment to Form 4400-122. 2 Boring Number of 2 Page Soil Properties Sample Length Att. & Recovered (in) Soil/Rock Description Depth In Feet Blow Counts Standard Penetration Comments Number and Type And Geologic Origin For Moisture Plasticity Index Diagram SCS PID/FID Graphic Content Liquid Limit Each Major Unit RQD/ P 200 Well Log Б SANDSTONE (SS2), yellow (10YR 8/8), silty, mostly fine sand with medium grained sand and fine gravel, E -16 uniform, massive. (Ancell Group, St. Peter Formation, Tonti Member) 100/1.5' W S7 3 17 Kh = 4.50E-04 cm/sE -18 At 18.5' to 20', SILTY SAND (SM) - 19 %g-s-si+cl = 4-83-14100/1.5 3 W **S**8 Ē 20 SS2 --21 E -22 23 Trace white and green clay. 100/1.5 -24 S9 3 W 25 ┝ -26 End of boring at 26' bgs in sandstone. Constructed well from 25.3' bgs.

State of Wisconsin Department of Natural Resources <u>Route to</u>	Watershed/Wastewater Remediation/Redevelopment	Waste Managemen X	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name Dane County Landfill Site No. 3 (Propose	Local Grid Location of Well		Well Name MW-116
Facility License, Permit or Monitoring N			
Facility ID	St. Plane 378468.41 ft. N		Date Well Installed $\frac{01}{m} \frac{19}{d} \frac{19}{d} \frac{2023}{y}$
Type of Well Well Code 11 / MW	Section Location of Waste/Sou SE_1/4 ofSE 1/4 of Sec.	<u></u> 25, <b>T</b> . <u></u> 7 <b>N, R</b> . <u></u> 10 🔂 🖬	Well Installed By: Name (first, last) and Firm Scott Klumb
Distance from Waste/ Enf. Stds.	Location of Well Relative to U Upgradient s	Vaste/Source Gov. Lot Number Sidegradient	Soils & Engineering Services, Inc.
Sourceft. Apply	d Downgradient n	Not Known	
A. Protective pipe, top elevation		1. Cap and lock? 2. Protective cover	No No
B. Well casing, top elevation	903.85 ft. MSL	a. Inside diamete	4
C. Land surface elevation	901.4 ft. MSL	b. Length:	<u>5</u> ft.
	MSL or11 ft.	c. Material:	Steel 🗙 04
12. USCS classification of soil near sc		d. Additional pro	Other └ Detection? └ Yes ⊠ No
GP GM GC GW	] sw sp 🛛	If yes, describ	
	] СГ 🗌 СН 🔲 🛛 📈	3. Surface scal:	Bentonite 🔀 30
Bedrock		5, Surface scal:	Concrete 01
			Other
	Rotary 50 Auger X41	4. Material between	n well casing and protective pipe: Bentonite 30
Honow Stell	Other	Filter Sand	
		5. Annular space se	
15. Drilling fiuid used: Water 0 2 Drilling Mud 0 3	$\begin{array}{c c} Air \\ 01 \\ N \\ N \\ N \\ 00 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $		mud weight Bentonite-sand slurry 25
Drilling Mud 0 3	None 99		mud weight Bentonite slurry 31
16. Drilling additives used?	Yes XNo		nite Bentonite-cement grout 50 volume added for any of the above
		f. How installed	
Describe <u>N/A</u>		**	Tremie pumped 0 2
17. Source of water (attach analysis, if: N/A	required):		Gravity 🔀 08
N/A	🐰	6. Bentonite seal:	a. Bentonite granules $\boxed{133}$ 3/8 in. $\boxed{1/2}$ in. Bentonite chips $\boxed{33}$
E. Bentonite seal, top $ 901.4$ ft.	MSL or ft.	0/ + m	Other
F. Fine sand, top890.4 ft.	MSL or <u>11</u> ft.	7. Fine sand materi	al: Manufacturer, product name & mesh size
G. Filter pack, top888.9 ft.	MSL or 12.5 ft.	a b. Volume adde	
• • • ~~~~~~			rial: Manufacturer, product name & mesh size
H. Screen joint, top886.4 ft.	MSL or $\_$ $\_$ $\frac{15}{1}$ ft.	ab. Volume adde	$\frac{\text{Red Flint #40}}{\text{2.0 ft}^3}$
I. Well bottom 876.1 ft.	MSL or 25.3 n.	9. Well casing:	$\frac{2.0}{\text{Flush threaded PVC schedule 40}} \times 2.3$
975 4	MSL or26 ft.		Flush threaded PVC schedule 80 24
J. Filter pack, bottom $\_$ $\frac{875.4}{\text{ft.}}$	MSL or $\_$ $\_$ $\_$ $\_$ $\_$ ft.		Other 🔲 🚛 Sch. 40 PVC
K. Borehole, bottom 875.4 ft.	MSL or26ft.	10. Screen material: a. Screen type:	Factory cut 🔀 11
L. Borehole, diameter $-\frac{8.3}{-1}$ i	n.	<u> </u>	Continuous slot 0 1 Other 0
M. O.D. well casing $-\frac{2.38}{1}$ i	n <i>.</i>	b. Mamufacturer c. Slot size:	0 <u>01</u> in.
2.07		d. Slotted lengt	
N. I.D. well casing $2.07$ i	n.	11. Backfill materia	1 (below filter pack):         None X 14           Other
I hereby certify that the information on	this form is true and correct to the	best of my knowledge.	
Signature	Firm		Medicen W/L 52719
(h th	SUS EI	NGINEERS, 2830 Dairy Drive	, Wauson, WE 337 10

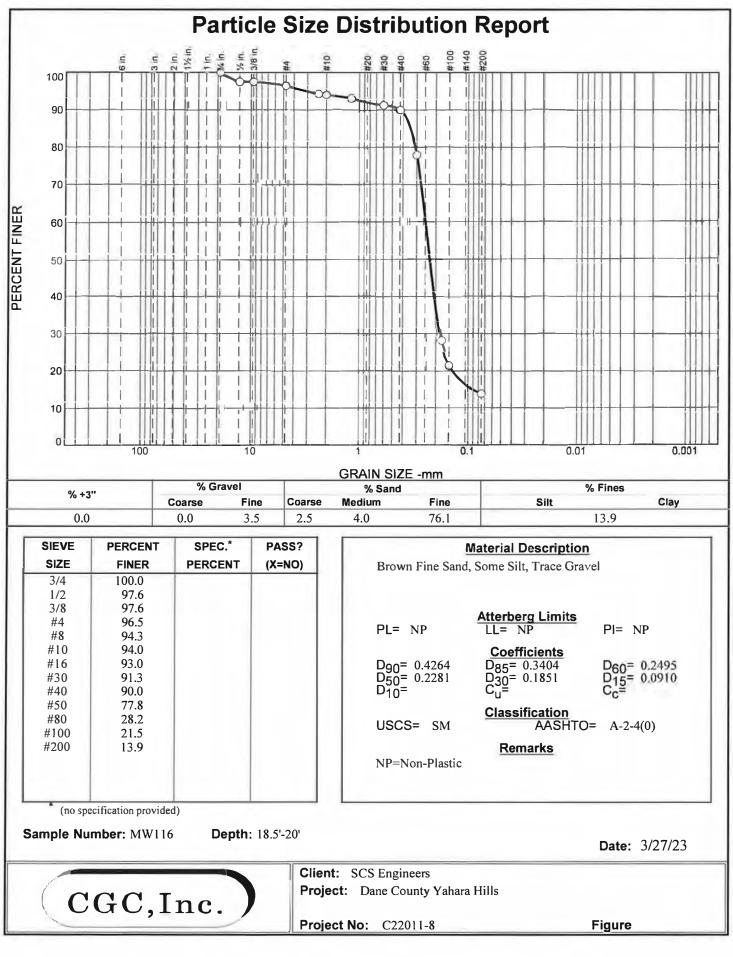
Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, 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.

State of Wisconsin Department of Natural Resources

#### MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Wast		Waste Management	$\mathbf{X}$					
Remediation/Rec		Other	-					
Facility/Project Name	County Name		Well Name					
Dane County Landfill No. 3 (Proposed)	0.01	Dane	1		MW-116			
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well N WD84		DNR We	II ID Number			
14		11001						
1. Can this well be purged dry?	es 🗌 No	11. Depth to Water	Before De	velopment	After Development			
2. Well development method		(from top of	a20	_42 ft.	<u>2183</u> n.			
surged with bailer and bailed	41	well casing)			10 10 10 10 10 10 10 10 10 10 10 10 10 1			
surged with bailer and pumped	61							
	42	Date	b01/2	26/2	$\frac{2023}{y} \frac{01}{m} \frac{26}{d} \frac{2023}{y} \frac{2023}{y}$			
	62	1.2	mm d	d y y y	yy mm dd yyy y			
	70	15 - 21	8 40	× 8.m.	9 50 × a.m.			
	20	Time	c: =	p.m.	p.m.			
	10	12 Sadimont in nall	0	7				
5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	51	<ol> <li>Sediment in well bottom</li> </ol>		inches	inches			
Other	50	13. Water clarity	Clear	10	Clear 20			
		15. Water clarity	Turbid		Turbid X 2 5			
3. Time spent developing well	70 min.		(Describe)		(Describe)			
4. Depth of well (from top of well casisng) $=$ $=$ $\frac{2}{3}$	7.7_ft.		light brown c	olor	light brown color			
5. Inside diameter of well $2$ .	07 in.		no odor		no odor			
<ol> <li>Volume of water in filter pack and well casing</li> </ol>	6 7 gal.							
casang	gal.	Fill in if drilling fluid	ds were used a	and well is a	at solid waste facility:			
7. Volume of water removed from well 1	9 0 gal.				ar sond waste racinty.			
	8	14. Total suspended	-	mg/l	<u> </u>			
8. Volume of water added (if any)	<u>0.0</u> gal.	solids		0				
9. Source of water added NA		15. COD		mg/l	mg/l			
		16. Well developed b	v: Name (first.	last) and Firn	n			
10. Analysis performed on water added?	es X No	First Name: Ethan						
(If yes, attach results)				Last Main				
		Firm: SCS ENGI	NEERS, 283	0 Dairy Dri	ive, Madison, WI 53718			
17. Additional comments on development:								
- Surged and purged with bailer for 30 minutes,	purged 9 gallon	S						
- 10 well volumes: 67 gallons								
<ul> <li>Pumped dry after 4 gallons, resumed surging a</li> <li>Purged dry 3 times for a total of 19.0 gallons p</li> </ul>								
- Stickup height: 2.9 feet	urgeu							
- Total depth after purging: 28.4 feet								
	1 -							
Name and Address of Facility Contact/Owner/Responsit	ole Party	I hereby certify that	at the above in	nformation i	is true and correct to the best			
First Name: Allison Last Name: Rathsack		of my knowledge.						
Facility/Firm: Dane County Dpt. of Waste & Ren	ewables	Signature: <i>(Thu</i>	in Sch	íaefer				
Street: 1919 Alliant Energy Center Way		Print Name: Ethan						
City/State/Zip: Madison, WI 53713		Firm: SCS EN	GINEERS, 28	30 Dairy Dr	ive, Madison, WI 53718			

NOTE: See instructions for more information including a list of county codes and well type codes.



Checked By: KJS

MW-116A

State of Wisconsin Department of Natural Resources

Route To:

Watershed/Wastewater Remediation/Redevelopment

Waste Management Other

SOIL BORING LOG INFORMATION Form 4400-122

Rev. 7-98

															Page	1 of 3
	Facility/Project Name						License/Permit/Monitoring Number Boring Number									
				No. 3 (Proposed)	SCS#: 25222268.00					MW-116A						
		•		f crew chief (first, last) a		Date Drilling Started Date				te Drilli	ng Cor	npleted		Drilling Method		
				rface Exploration S		2/21/2023						2 17 12	022		HSA, 4.25" ID	
				& Engineering Serv DNR Well ID No.	Common Well Name	Final Sta				Surfo	e Eleva	3/7/2	023	De	& Air Rotary Borehole Diameter	
WI Unique Well No.DNR Well ID No.Common Well NameWD858MW-116A					rinai Sta	lic wa	lei Leve	51		000.8 H		151	DC	8.3" & 6"		
Local	Grid Or		$\Box$ (es	timated:  ) or Boi							Local C				0.5	
State		19111		,477 N, 2,169,728		La	t	°	<u> </u>	"	Locar			r	1	Feet 🗌 E
SE		of Sl		/4 of Section 25,	t 7 n, r 10 e	Long	2	0	'	"		1 000				
Facilit				County		County Co		Civil T	own/C	tity/ or	Village					
				Dane		13		City	of Ma	adisoı	1					
San	nple											Soil	Prope	erties		
	(		L L	Soil/R	Rock Description											
	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		eologic Origin For						E					S.
Number and Type	h A /ere	Col	Ч				S	ic.	Well Diagram		Standard Penetration	nre nt	-	Plasticity Index		RQD/ Comments
d T b	sngt	MO	= pth	Eau	ch Major Unit		SC	Graphic Log	Well	PID/FID	and	Moisture Content	Liquid Limit	Plastic Index	P 200	RQD/ Comm
an N	Le R	Bl	ă				D	Σĭ	j≷ į	Id	St Pe	Σŭ	E E	Pl In	Р	Ŭ K
			-1 -2 -3 -4 -5 -6 -7	60' bgs on 2/21-22/20 Soils & Engineering S diameter using air rota MW-116A at 59.3' bg	ervices, Inc. reamed hole ry on 3/7/2023 and set v	e to 6" vell										

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

Signature	n	Firr	<sup>n</sup> SCS Engineers
	Chita	Adam Watson	2830 Dairy Drive, Madison, WI 53718

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.

#### SOIL BORING LOG INFORMATION SUPPLEMENT Form 4400-122A

Boring Number MW-116A Use only as an attachment to Form 4400-122. Page 2 of							2 of 3							
San	nple									Soil	Prope	erties		
	tt. & d (in)	unts	Feet	Soil/Rock Description And Geologic Origin For					u u					s
ıber Type	gth A overe	Blow Counts	Depth In Feet	Each Major Unit	CS	shic	Well Dia gram	PID/FID	dard etratic	Moisture Content	ii d	Plasticity Index	0	)/ iment
Number and Type	Length Att. & Recovered (in)	Blov	Dept	_	USC	Graphic Log	Well Diagr	PID/	Standard Penetration	Moisture Content	Liquid Limit	Plastic Index	P 200	RQD/ Comments
			-16											
			-17											
			17											
			E 19											
			-20											
			E-21											
			-22											
			E											
Γ			-23	SANDSTONE (SS2), yellow (10YR 8/8) and orange,										
Run	8		-24	SANDSTONE (SS2), yellow (10YR 8/8) and orange, fine to coarse grained, well sorted, massive, with iron inclusions and iron staining. (Ancell Group, St. Peter Formation, Tonti Member)		· · · · · · · · · · · · · · · · · · ·								FF=0.5/ft Percent
1			-25			· · · · · · · · · · · · · · · · · · ·								Recovery=33% RQD=19%, very
			Ē											poor
			-26	White (2.5Y 8/1) and red (2.5YR 4/6), with calcite veins.		· · · · · · · · · · · · · · · · · · ·								
	17		E <sup>27</sup>											
Run 2	17		-28			· · · · · ·								FF=5/ft Percent Recovery=28% RQD=0%, very
			-29			· · · · · · · · · · · · · · · · · · ·								poor
			Ē			· · · · · · · · · · · · · · · · · · ·								
						· · · · · · · · · · · · · · · · · · ·								
			-31		SS2	· · · · · · · · · · · · · · · · · · ·								
			-32		552									
Run 3	53		-33			· · · · · · · · · · · · · · · · · · ·								FF=4.8/ft Percent Recovery=88%
			Ē											RQD=16%, very poor
			-34											
-			= 35											
Run	24		-36	Planar laminated bedding.		· · · · · ·								FF=3.5/ft
Run 4	21		-37	- main mannane e courrig.		· · · · · ·								Percent Recover=88% RQD=36%, poor
			Ē			· · · · · · · · · · · · · · · · · · ·								
	22.4		38 											PE 2.5/0
Run 5	32.4		-39											FF=2.5/ft Percent Recovery=100%
			-40											RQD=59%, fair

#### SOIL BORING LOG INFORMATION SUPPLEMENT Form 4400-122A

	g Numb	er	MW	V-116A Use only as an attachment to Form 4400-1	22.	1	,		1				Page	3 of 3
San	nple									Soil	Prop	erties		-
	Length Att. & Recovered (in)	nts	eet	Soil/Rock Description										
er /pe	n Att ered	Cou	In F	And Geologic Origin For	s	.c.	Ш	Ð	urd atioi	at it		ity		ients
Number and Type	Length Att. Recovered (	Blow Counts	Depth In Feet	Each Major Unit	SC	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid	Plasticity Index	P 200	RQD/ Comments
	л× Х	B	<u> </u>		D		≥ O	Ы	St Pe	ΣŬ	<u> </u>	Pl In	Р	<u> </u>
			E	SANDSTONE (SS2), yellow (10YR 8/8) and orange, fine to coarse grained, well sorted, massive, with iron										
			E <sup>-41</sup>	inclusions and iron staining. (Ancell Group, St. Peter Formation, Tonti Member)										
			-42	(Alteri Gloup, St. Feler Formation, Toliti Melliber)										
Run	53													FF=4.3/ft
6			-43											Percent Recovery=88%
			Ē											RQD=0%, very poor
			-44 E											
_	-		-45	Yellowish red (5YR 5/8), cross-bedded from 45' to										
			E	47.5' bgs then planar laminated bedded.										
			-46											
			-47											
Run	35		Ē											FF=3.1/ft
7			E-48											Percent Recovery=58% RQD=28%, poor
			-49											KQD=2870, p001
			Ē		SS2									
-			50	Light gray (2.5Y 7/1) inclusions, cross-bedded from										
			51	50' to 56' bgs.										
			52											
Run 8	54		E 52											FF=1.3/ft Percent
Ũ			53											Recovery=90% RQD=61%, fair
			54											
			-	Kh = 4.00E-03 cm/s										
			55	Pale brown (2.5Y 7/4).										
			-56											
			E											
			57											
Run 9	60.4		58											FF=1.4/ft Percent Recovery=100%
			E											RQD=63%, fair
			- 59	SANDSTONE (SS3), white (2.5Y 8/1) and light gray										
			E_60	(2.5Y 7/1), fine to coarse grained, poorly sorted, with clay and dolomite clasts.	SS3									
			F	(Ancell Group, St. Peter Formation, Readstown										
				End of boring at 60.4' bgs in sandstone. Reamed hole to 6" diameter using air rotary and constructed well										
				from 59.3' bgs.										

ť

	Watershed/Wastewater	Waste Managemen X	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name Dane County Landfill Site No. 3 (Proposed)	Local Grid Location of Well	Nft. W.	Well Name MW-116A
Facility License, Permit or Monitoring No.	Local Grid Origin (estima	ated: [_]) or Well Location [	r <u>ŴD858</u> <u></u>
Facility ID	St. Plane 378476.79 ft. N	and the second sec	
Type of Well Well Code PZ	Section Location of Waste/Sou <u>SE</u> 1/4 of <u>SE</u> 1/4 of Sec. Location of Well Relative to W	<u>7 N, R.</u> 10 ⊡¥	Well Installed By: Name (first, last) and Firm Scott Klumb
Distance from Waste/ Enf. Stds. Sourceft. Apply	u Upgradient s d Downgradient n	Vaste/Source Gov. Lot Number Sidegradient Not Known	Soils & Engineering Services, Inc.
	903.34 ft. MSL	1. Cap and lock?	Yes No
B. Well casing, top elevation	903.35 ft. MSL	2. Protective cover a. Inside diamet	
C. Land surface elevation	900.8 ft. MSL	b. Length:	$\begin{array}{c} - 5 \text{ ft.} \\ \text{Steel}  \boxed{\times} 04 \end{array}$
D. Surface seal, bottom $_{-}$ $_{-}$ $_{-}$ $_{-}$ ft. M3	SL or ft.	c. Material:	$\frac{\text{Siece}}{\text{Other}} \qquad 0.4$
		d. Additional pu If yes, descri	be:
Bedrock X		3. Surfacc scal:	$\begin{array}{c c} \textbf{Bentonite} & \boxed{\texttt{X}} & 3 \\ \textbf{Concrete} & \boxed{\texttt{O}} & 1 \end{array}$
			Other
14. Drilling method used: Ro Hollow Stem Av	$\begin{array}{c c} tary \times 50 \\ uger 41 \end{array}$	4. Material Detwee	en well casing and protective pipe: Bentonite 2 30
	uther	Filter Sand	Other 🗵 📖
15. Drilling fiuid used: Water 0 2	Air 🗙 01	5. Annular space s	eal: a. Granular/Chipped Bentonite 🔀 3 3 mud weight Bentonite-sand slurry 3 5
Drilling Mud 0 3	None 99	cLbs/gal	mud weight Bentonite slurry 🛄 3 1
16. Drilling additives used?	Yes XNo		mite Bentonite-cement grout $50$ for any of the above
Describe_N/A		f. How installe	d: Tremie 🗙 01
17. Source of water (attach analysis, if req	uired):		Tremie pumped 🔀 02 Gravity 🔀 08
N/A		6. Ben <u>ton</u> ite seal:	a. Bentonite granules 33
E. Bentonite seal, top900.8 ft. MS	5L or0ft.	b. [X]/4 in. [ c. <u>Pel-plug Ber</u>	3/8 in. 1/2 in. Bentonite chips 3 2 tonite Pellets Other X
F. Fine sand, top $= \frac{850.7}{100}$ ft. MS	SL or $50.1 \text{ ft.}$	7. Fine sand mater Red Flint #1	ial: Manufacturer, product name & mesh size 5 X
G. Filter pack, top849.0 ft. MS	SL or 51.8 ft.	a. b. Volume add	
H. Screen joint, top846.8 ft. MS	SL or54 ft.	- [] / a	Red Flint #40
I. Well bottom $-\frac{841.5}{5}$ ft. MS	SL or59.3 ft.	b. Volume add 9. Well casing:	Flush threaded PVC schedule 40 🔀 23
J. Filter pack, bottom 839.4 ft. MS	SL or $61.4$ ft.		Flush threaded PVC schedule 80 24
K. Borehole, bottom839.4 ft. MS	SL or $61.4$ ft.	10. Screen material a. Screen type:	Factory cut 🗵 11
<b>L.</b> Borehole, diameter $   -$ in.		<sup>™</sup> \	Continuous slot 0 1
M. O.D. well casing $-\frac{2.38}{1.32}$ in.		b. Manufacture c. Slot size: d. Slotted leng	0. <u>01</u> in.
N. I.D. well casing $-\frac{2.07}{}$ in.			al (below filter pack):         None X 14            Other
I hereby certify that the information on this		best of my knowledge.	
Signature	Firm SCS EN	GINEERS, 2830 Dairy Drive	e. Madison. WI 53718

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.

State of Wisconsin Department of Natural Resources

# MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershee	No Contract of the second second	Waste Management	$\mathbf{X}$	
Remediati Facility/Project Name	ion/Redevelopment County Name	Other	Well Name	
Dane County Landfill No. 3 (Proposed)	County Maine	Dane	Wen Maine	MW-116A
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well No. WD85	and a second	DNR Well ID Number
<ul> <li>5. Inside diameter of well</li></ul>	Yes       No	well casing) Date Time 12. Sediment in well bottom 13. Water clarity Fill in if drilling fluid	a. $18$ b. $03/17$ m m d d c. $9:15$ -2 Clear 1 Turbid $\ge 1$ (Describe) light brown clo	5 Turbid 2 5 (Describe)
9. Source of water added N	Α	15. COD		mg/lmg/l
10. Analysis performed on water added? (If yes, attach results)	Yes X No	16. Well developed b First Name: Bridge Firm: SCS ENGIN	t	ast) and Firm Last Name: Russell Dairy Drive, Madison, WI 53718
17. Additional comments on development:		· ·		

- 10 well volumes = 108 gallons

- Surged and purged 30 minutes, purged 10 min and 2 gallons with bailer

- Used monsoon for last of purge and surge, and pumped until clear - Took 4.5 min for a 5 gal bucket to fill

Name and Address of Facility Contact /Owner/Responsible Party         First         Name:         Allison         Last         Name:         Rathsack	I hereby certify that the above information is true and correct to the best of my knowledge.
Facility/Firm:Dane County Dpt. of Waste & Renewables	Signature: Bridget Rundl
Street: 1919 Alliant Energy Center Way	Print Name: Bridget Russell
City/State/Zip: Madison, WI 53713	Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

NOTE: See instructions for more information including a list of county codes and well type codes.