### 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

ST-116

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 1
Facility							License/I	Permit/	Monito	ring N	umber			Numbe			
					o. 3 (Proposed)	SCS#: 25222268.00		~					ST-116				
-		-	Name	of	crew chief (first, last) an	id Firm	Date Dri	llıng St	arted		D	Date Drilling Completed					ing Method
	tt Klu		orino	- SA	ervices, Inc.		3/8/2023					3/8/2023					SA
WIUn	iaue W	ell No				Common Well Name	Final Sta			el	Surfa	ce Elevat		025	Bo		Diameter
	-1		-											1SL			.3"
Local	Grid Oı	rigin		esti	imated: 🗌 ) or Bori	ng Location	1		0			901.4 Feet MSL Local Grid Location					
State ]	Plane		37	8,4	468 N, 2,164,728	E S/C/N	La	t					Feet	□ N	-		Feet 🗌 E
SE		of S	E	1/4		t 7 n, r 10 e	Long		°	<u> </u>				🗆 S			□ W
Facility	y ID				County		County Co	de				Village					
					Dane		13		City	of Ma	adisor	1					
San	nple												Soil	Prope	rties		-
	& (in)	ts	set		Soil/Ro	ock Description											
г S	Att. red	uno	n Fe		And Geo	ologic Origin For				2		dtion			<sub>I</sub>		ants
Tyl	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		Eacl	h Major Unit		CS	phic	orar	VFII	odar etra	Moisture Content	uid nit	Plasticity Index	200	D/
Number and Type	Len Rec	Blo	Dep					U S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Index	P 2(	RQD/ Comments
			E		Blind drilled to 1' bgs.												
			-1			or lithology from 0'-26' bgs.)											
			<b>-</b> 1		LEAN CLAY, dark bro silt with clay, soft, cohe	$\frac{10YR 3/3 \text{ to } 4/4}{10YR 3/3 \text{ to } 4/4},$	moslty										
S1	19		E_2		roots with sand at botto	om. (Loess)	, trace	CL		1		1.25	M				Shelby tube
51	17		-2 -3									1.25	111				Shelby tube sampled from 1-3 feet bgs.
L	End of boring at 3' bgs in loess. Abandoned with				ith			4							1.0.1001.050		
					bentonite chips.	in locss. 7 foundation w	Itti										

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	Signature
---	-----------

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.

	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.

		F	Route t	o DNR Bureau:										
Verification Only of	Fill and Sea	al	D	rinking Water		Watershed/V	Vastewater	Remedi	iation/Redeve	elopment				
			XW	aste Manageme	nt 🗌	Other:								
1. Well Location Informat						/ Owner Int	formation							
County WI	Unique Well # moved Well	of Hi	icap #		Facility Nam									
Dane			S	T-116			I No.3 (Propose	d)						
Latitude / Longitude (see instru	uctions)	Format C	ode	Method Code	Facility ID (F	ID or PWS)								
	Ν		)	GPS008	License/Perr	nit/Monitoring	. #							
	W		M	SCR002										
1/4 / 1/4 SE 1/4 SE	Section	Towns	ship	Range 🗙 E	Original Well Owner									
or Gov't Lot #	25		7 N	10 🗍 w			tment of Waste	and Rene	wables					
Well Street Address					Present Wel									
7101 US Highway 12 &	18						tment of Waste	and Rene	wables					
Well City, Village or Town				ZIP Code		ess of Preser	Center Way							
Madison, WI			537	18	City of Prese		Senter Way	State	ZIP Code					
Subdivision Name			Lot #		Madison			WI	53713					
Reason for Removal from Serv	vice WIUn	aue Well #	of Rei	placement Well	4. Pump, l	iner, Scree	en, Casing & Se	aling Mate	erial					
Temporary Borehole		que tren n	01110		Pump and piping removed?									
3. Filled & Sealed Well / [	Drillhole / Bo	orehole li	nform	ation	Liner(s) removed?									
Monitoring Well				mm/dd/yyyy)	Liner(s) p			<u> </u>	Yes No	X N/A				
Water Well		03/08	8/202	3	Screen re				Yes No	X N/A				
	If a Well C	onstruction	n Repo	ort is available,		t in place?			Yes No					
X Borehole / Drillhole	please att	ach.				ng cut off belo			Yes No					
Construction Type:		_	_		Did sealing material rise to surface?       X Yes       No       N/         Did material settle after 24 hours?       Yes       X No       N/									
	en (Sandpoint)		Dug	r						N/A □N/A				
Other (specify):					If hentonite chins were used, were they hydrated									
Formation Type:	-	_			with water	from a know	n safe source?		Yes No	N/A				
X Unconsolidated Formation	-	Bedroc			Required Method of Placing Sealing Material									
Total Well Depth From Ground	Surface (ft.)	Casing Di	ameter	' (in.)	Conductor Pipe-Gravity Conductor Pipe-Pumped									
3		NA			(Bento	nite Chips)	Other (Ex	olain):						
Lower Drillhole Diameter (in.)		Casing De	epth (ft.	.)	Sealing Mate		_	٦.						
4.3		NA				ement Grout		Bentonite						
Was well annular space grouted	d?	Yes 🔉	< No	Unknown		Cement (Cond	crete) Grout	Bentonite						
If yes, to what depth (feet)?	If yes, to what depth (feet)? Depth to Water (feet)						~	onite - Ceme						
NA	~20			Granul	ar Bentonite	Bent	onite - Sand	Slurry						
5. Material Used to Fill W	/ell / Drillhol	9			From (ft.)	To (ft.)	No. Yards, Sacks Volume (circl		Mix Rat Mud We					
3/8" Bentonite Chips					Surface	3	8 lbs		dry n					
C. Commonte						9 1011 - 1011 - 1011 - 1011 - 1011 - 1011 - 1011 - 1011 - 1011 - 1011 - 1011 - 1011 - 1011 - 1011 - 1011 - 1011 -								
6. Comments														
Shelby Tube ST-116														

7. Supervision of Work					DNR	Use Only	
Name of Person or Firm Doing Filling & Sealing	Licens	e #	Date of F	illing & Sealing or Verification	Date Received	Noted By	
Soils & Engineering Services, Inc		(mm/dd/yyyy) 03/08/2023					
Street or Route			Т	elephone Number	Comments		
1102 Stewart St.		( 608 )274-7600					
City	State	ZIP Code		Signature of Person Doing W	lork	Date Signed	
Madison	WI	537	'13	a di	$\overline{\mathbf{A}}$	03/08/2023	

MW-117

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					License/	Permit	Monite	oring N	umber			Numbe				
				No. 3 (Proposed)	SCS#: 25222268.00								MW-	117			
-		•	Name of	Crew chief (first, last) an	id Firm	Date Dr	illing S	tarted		Da	ate Drilli	ing Con	npleted		Drilling Method		
	tt Klu s & F		ering	Services, Inc.			1/20	/2023	,			1/20/2	2023		HSA, 4.25" I		
	ique W			DNR Well ID No.	Common Well Name	Final Sta										Diameter	
	WI	0846			MW-117	:	899.3	Feet	MSL	8	899.8 Feet MSL				8.3"		
	Grid Oı	igin		timated: 🗌 ) or Bori				0	,		" Local Grid Location						
State				913 N, 2,168,367		La					Feet 🗌 N					Feet 🗌 E	
SE		of S	E 1/	,	т7 N, R 10 е	Lon					x 7.11		S			□ W	
Facilit	y ID			County Dane		County Co 13	ode		of Ma	2	Village						
San	nple			Dalic		15					1	Soil	Prope	ortion			
San	-			G :1/D												-	
	t. & 1 (in	nts	feet		ock Description						2					0	
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		ologic Origin For		s	ic.	1		Standard Penetration	ut n	L_	sity		RQD/ Comments	
d T.	sngtl	MO	epth	Eacl	n Major Unit		SC	Graphic Log	Well Diagram	PID/FID	anda	Moisture Content	Liquid Limit	Plasticity Index	200	D/D/	
lan I	Å Å	BI	Ă							Ā	St Pe	ΣŬ	ΕĒ	Pl In	Ч	జ ర	
			Ē	SILT (ML), very dark g organic rich, with roots	grayish brown (10YR 3 . (Topsoil)	3/2),	ML	<u>x 1</u> , <u>x</u> 1 <sub>1</sub> <u>x 1</u> ,									
S1	24	43 33	-1	FAT CLAY (CH), ligh	t olive brown (2.5Y 5/	6) with		<u> </u>			1.0	W				Depth to water is at $\sim 0.5'$ bgs.	
	orange mottling, mostly silt with clay, some fin				ne sand,					1.75					at~0.5 bgs.		
			$\begin{bmatrix} -2 \\ \end{bmatrix}$			LUCSS											
				At 1' to 2', FAT CLAY % g-s-si-cl = 0-4-56-40													
Г			E I	LL=51, PI=29						·							
	10	11	-4	Olive gray (5Y 5/2).			CH			•]	1.0						
S2	18	2	E I								1.0	W					
			<u>5</u>							:							
			E_6							С. 							
			E			6		+. 1. 1		:							
S3	18	47 3	-7	SILTY SAND (SM), st mostly fine sand with n	rong brown (7.5 Y R 5/ redium to coarse sand	6), and				с.		W					
L			F	some clay, fine to coars	e gravel (mostly dolon	nite),				:							
			-8	uniform, massive. (Till (Holy Hill Formation,	) Horicon Member)					:.							
										:. :							
S4	18	34 17	F"							τ.		W					
		17	E_10							:							
			E I	Kh = 3.72E-04  cm/s						τ.							
Г			-11	At 11' to 12.5', SILTY	SAND (SM)		SM			: :							
S5	14	11 10	E I	% g-s-si-cl = 14-59-14-						:		w					
55	17	9	E <sup>12</sup>							: -		"					
			E_13							:							
			È l							:							
		9 29	-14														
S6	13	9 29 39	E							:		W					
			-15	mation on this form is tr	1			p. d. d.		·							

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

Signa	ture	Adam Watson	Firm 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 Numł	ber	MW	V-117 Use only as an attachment to Form 4400-12	22.								Page	2 of 2
San										Soil	Prope			
	. & (in)	ats	eet	Soil/Rock Description					_					
er ype	h Att ered	Cour	In F	And Geologic Origin For	$\mathbf{v}$	IC.	m	A	ard	nt e	_	bity		nents
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
a N	JK	В		SILTY SAND (SM) streng heavy (7.5VD 5/6)	Ŋ			Р	N L	20		P 1	Р	CR
				SILTY SAND (SM), strong brown (7.5YR 5/6), mostly fine sand with medium to coarse sand and	SM									
			-16	some clay, fine to coarse gravel (mostly dolomite), uniform, massive. (Till)										
				(Holy Hill Formation, Horicon Member) End of boring at 16' bgs in till. 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	Nf. W.	Well Name MW-117
Facility License, Permit or Monitoring No.	Local Grid Origin (estima		
Facility ID	St. Plane 377912.89 ft. N.	2168366.81 ft. E. S/C/N	Date Well Installed m m d d y y y
Type of Well Well Code 11 / MW	Section Location of Waste/Sour	<u>7 N, R10 🔂 K</u>	Well Installed By: Name (first, last) and Firm Scott Klumb
Distance from Waste/ Enf. Stds.	Location of Well Relative to W u Upgradient s	aste/Source Gov. Lot Number Sidegradient	
Sourceft. Apply	d Downgradient n	Not Known	Soils & Engineering Services, Inc.
A. Protective pipe, top elevation	<u>902.37</u> ft. MSL	1. Cap and lock?	nine:
B. Well casing, top elevation	902.35 ft. MSL	a. Inside diamete	· · · /
C. Land surface elevation	899.8 ft. MSL	b. Length:	_ <u>_</u> 5 ft.
D. Surface seal, bottom 896.8 ft. M	SLor $3 \text{ ft}$	c. Material:	Steel 🗙 04
12. USCS classification of soil near scree		d. Additional pro	Other U
	sw sp	If yes, describ	100 M
		3. Surface scal:	Bentonite 🔀 30
Bedrock		5, Surface seal:	Concrete 01
			Other
14. Drilling method used: Ro Hollow Stem A	tary 50	4. Material between	well casing and protective pipe: Bentonite 30
		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 01		nud weight Bentonite-sand slurry 35
	None × 99		nud weight       Bentonite slurry       31         nite       Bentonite-cement grout       50
16. Drilling additives used?	Yes 🗙 No		hite Bentonite-cement grout 50 <sup>3</sup> volume added for any of the above
n n N/A		f. How installed	·
Describe <u>N/A</u> 17. Source of water (attach analysis, if req	uire d)		Tremie pumped 🔲 0 2
N/A	uned).		Gravity 🔀 08 a. Bentonite granules 🗌 33
	📓	b, $b$ , $4$ in $X$	$3/8$ in. $1/2$ in. Bentonite chips $\times$ 32
E. Bentonite seal, top 899.8 ft. MS	SL or $\_\_\0 ft$ .	0	Other
F. Fine sand, top	SL or ft.		al: Manufacturer, product name & mesh size
		a. Red Flint #1	
G. Filter pack, top690.0 ft. MS	SL or $\_$ $\_$ $\_$ $]$ ft.	b. Volume adde	
H. Screen joint, top 894.8 ft. M	SL or $\_$ $\_$ $\_$ $5 ft.$	a	tial: Manufacturer, product name & mesh size Red Flint #40 d 2.0 ft <sup>3</sup>
I. Well bottom 884.5 ft. M	SL or15.3 n.	b. Volume adde 9. Well casing:	Flush threaded PVC schedule 40 🔀 23
J. Filter pack, bottom883.8 ft. M	SL or 16ft.		Flush threaded PVC schedule 80       24         Other
883.8	$5L \text{ or } \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ $	10. Screen material:	Sch. 40 PVC
	SL or1.	a. Screen type:	Factory cut 🗵 11 Continuous slot 🔲 01
<b>L.</b> Borehole, diameter $-\frac{8.3}{-}$ in.	NE22		
M. O.D. well casing $-\frac{2.38}{1000}$ in.		b. Manufacturer c. Slot size: d. Slotted lengt	0. 0. 01 in.
N. I.D. well casing in.			I.         Image: Control of the sector
I hereby certify that the information on thi	s form is true and correct to the b	pest of my knowledge.	
Signature	Firm		
(1 th	SCS EN	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.

State of Wisconsin Department of Natural Resources

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

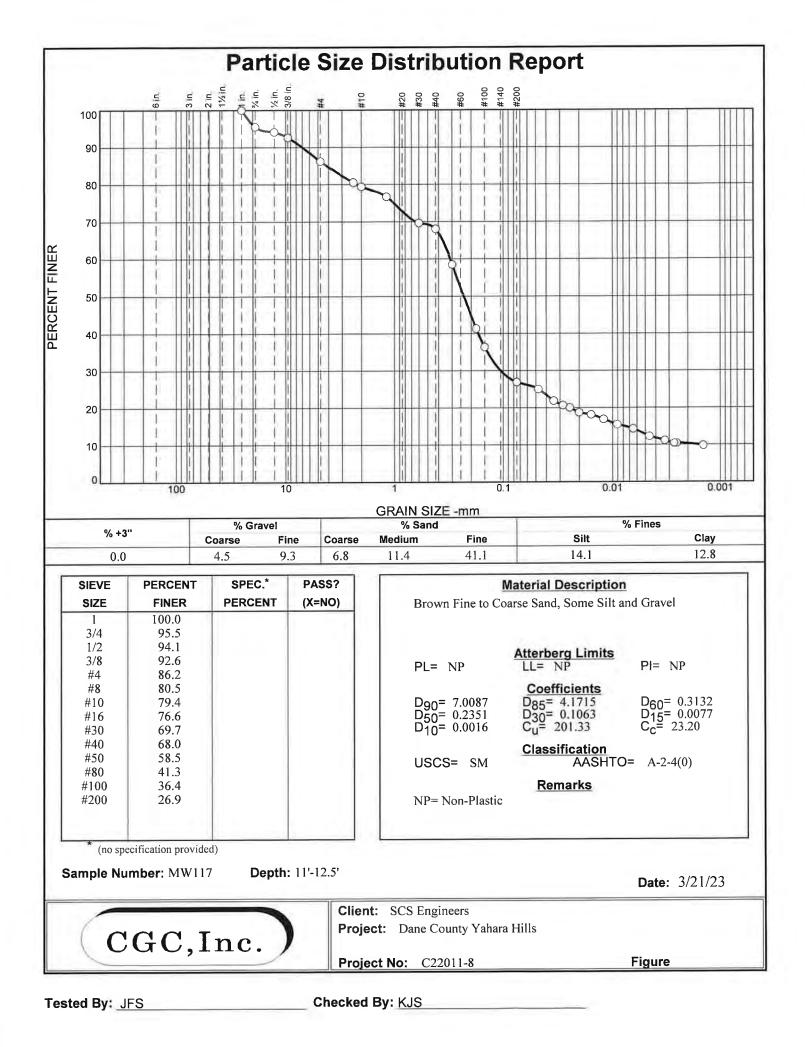
Route to: Watershed/Was Remediation/Re	And the second second	Waste Management	$\boxtimes$	
Facility/Project Name Dane County Landfill No. 3 (Proposed)	County Name	Dane	Well Name	MW-117
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Nu WD84		NR Well ID Number
5. Inside diameter of well $-\frac{2}{2}$ .	Yes $\square$ No 41 61 42 62 70 20 10 51 50 <u>35</u> min. <u>17.9</u> ft. <u>07</u> in.	well casing) Date	<b>a.</b> 3 <b>b.</b> 1 /27 / <b>m.m.</b> /7 / <b>c.</b> 11 : 55	Turbid 🔀 2.5 (Describe)
	2 3 gal.	Fill in if drilling fluid	is were used and	well is at solid waste facility:
	<u>7</u> . <u>0</u> gal. <u>0</u> . <u>0</u> gal.	14. Total suspended solids	<u>-</u>	_ mg/l63,9000 mg/i
9. Source of water added NA		15. COD	<u>-</u>	_ mg/l <u></u> mg/l
		16. Well developed b	y: Name (first, last)	and Firm
10. Analysis performed on water added?	Yes 🗙 No	First Name: Ethan		ast Name: Schaefer
		Firm: SCS ENGIN	NEERS, 2830 Da	airy Drive, Madison, WI 53718
17. Additional comments on development:		Firm: SCS ENGIN	NEERS, 2830 Da	airy Drive, Madison, Wi 53718

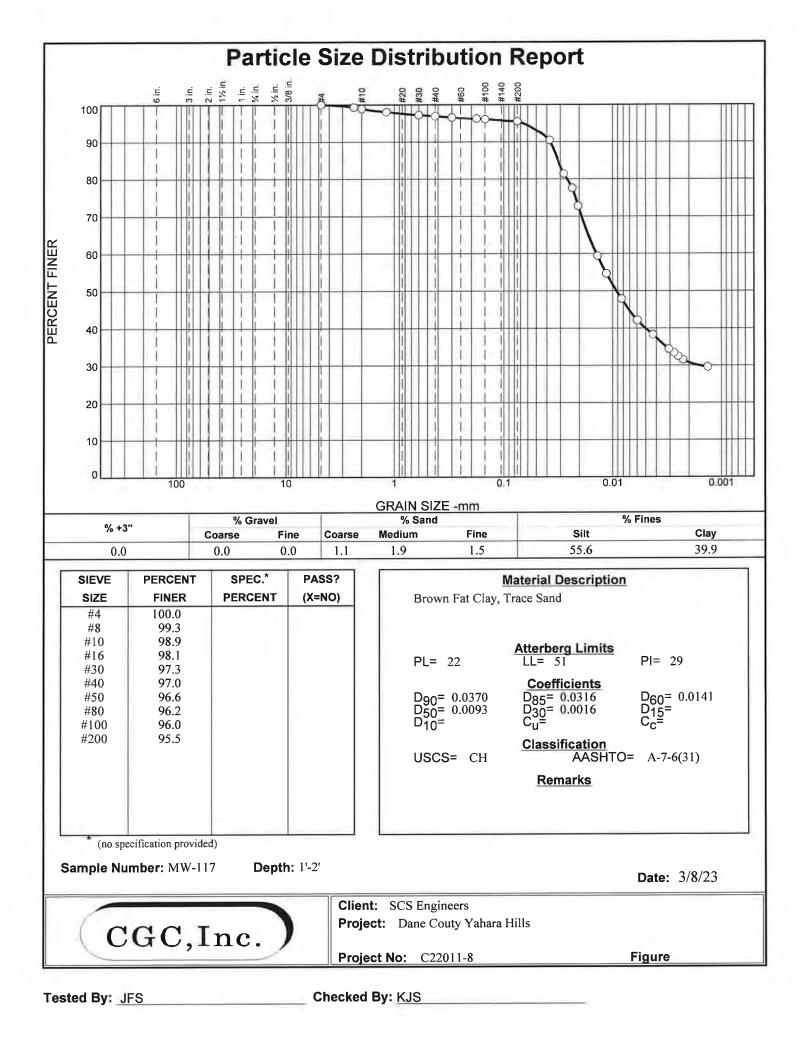
Purged and surged for 30 minutes
Purged dry 3 times for a total of 7 gallons purged

- Sample time: 12:35

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: Ethan Schaefer
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.





MW-117A

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/I	Permit/	Monitor	ring N	umber		Boring				
Dane County Landfill N		SCS#: 25222268.00									-117/		
Boring Drilled By: Name of	crew chief (first, last) ar	nd Firm	Date Drilling Started Date Dr					te Drilli	illing Completed				ing Method
Scott Klumb			2/6/2023				2/2/2022				HSA, 4.25" ID		
Soils & Engineering S WI Unique Well No.	DNR Well ID No.	Common Well Name					3/2/2023 ace Elevation Bor					Air Rotary Diameter	
WD869		MW-117A								ISI			" & 6"
	imated:  ) or Bori							899.7 Feet MSL Local Grid Location				0.5	au
	911 N, 2,168,363		La	t	°	<u>'</u>	"			N	r	l	Feet 🗌 E
		t 7 n, r 10 e	Long	g	0	'	"		1 000			-	
Facility ID	County	. , .	County Co		Civil T	own/C	ity/ or `	Village					
	Dane		13		City of	of Ma	disor	1					
Sample									Soil	Prope	erties		
	Soil/R	ock Description											
Number and Type Length Att. & Recovered (in) Blow Counts Depth In Feet		ologic Origin For						E E					S
Number and Type Length At Recovered Blow Cou Depth In I		h Major Unit		S	ic	am	PID/FID	Standard Penetration	nre nt	-	Plasticity Index		RQD/ Comments
umt angt low   epth	Eac	n Major Onit		SC	Graphic Log	Well Diagram	DF	and	Moisture Content	Liquid Limit	Plastic Index	P 200	QD/ Dun
				Þ	ĽŪ	βÖ	Id	St Pe	Σŭ	ΕË	Pl In	P	<u> </u>
$ \begin{array}{c} -1 \\ -2 \\ -3 \\ -4 \\ -5 \\ -6 \\ -7 \\ -8 \\ -9 \\ -10 \\ -11 \\ -12 \\ -13 \\ -14 \\ -15 \\ \end{array} $	Blind drilled to 18.5' bg (See MW-117 log for I Split barrel sampled fro hole from 30' to 50.7' Reamed hole to 6" dian on 3/2/2023 and set we	ithology from 0' to $16'$ 1 om 18.5' to 30' bgs and bgs on $2/6/2023$ . neter to 51' bgs using a	cored ir rotary										

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

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

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

<u>MW-117</u>A Use only as an attachment to Form 4400-122. 2 of 3 Boring Number Page Soil Properties Sample Length Att. & Recovered (in) Soil/Rock Description Depth In Feet Blow Counts Penetration Comments Number and Type And Geologic Origin For Moisture Plasticity Index Diagram PID/FID Standard S Graphic Content Liquid Each Major Unit  $^{\rm S}_{\rm C}$ Limit RQD/ P 200 Well Log Б Blind drilled to 18.5' bgs. -16 17 E 18 SILTY SAND (SM), yellowish brown (10YR 5/6), - 19 mostly fine sand, with medium to coarse sand, some 65 7 W 18 S1clay, and fine to coarse gravel (mostly dolomite), uniform, massive. (Till) 20 (Holy Hill Formation, Horicon Member) 21 SM E -22 23 11 89/4" -24 S2 18 W SILTY SAND (SM), white (10YR 8/1), fine to 25 ┝ medium grained, with silt and green (glauconite) clay. (SS2) SS2 (Ancell Group, St. Peter Formation, Tonti Member) 26 27 DOLOMITE (DL4), light gray (2.5Y 7/2), massive, with sand, chert, round, oval, and elongated vugs, calcite, aragonite, dendrites, and green (glauconite) -28 clay. (Prairie du Chien Group, Oneota Formation) 29 E - 30 E -31 32 33 Run 53.5 FF=4.46/ft DL4 Percent Recovery=89% RQD=48%, poor E 34 \_ 35 More sandy. 36 Ē -37 E 38 39 40

## SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Borin	g Numb	ber	MW	V-117A Use only as an attachment to Form 4400-1	22.		-	-					Page	3 of 3
San	nple									Soil	Prop	erties		-
	tt. & d (in)	unts	Feet	Soil/Rock Description And Geologic Origin For										S.
ber Jype	th A1 veree	Cou	h In l	Each Major Unit	CS	hic	ram	Ð	lard tratio	ture		icity		/ ment
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	5	U S O	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				DOLOMITE (DL4), light gray (2.5Y 7/2), massive,		_/_								
Run 2	101		-41	DOLOMITE (DL4), light gray (2.5Y 7/2), massive, with sand, chert, round, oval, and elongated vugs, calcite, aragonite, dendrites, and green (glauconite)										FF=1.19/ft Percent
			E 	clay. (Prairie du Chien Group, Oneota Formation)										Recovery=85% RQD=36%, poor
			-43 											
			-44											
			E 											
	-				DL4									
				Kh = 1.87E-04  cm/s										
			-47											
			-48			-/								
Run 3	56													FF=1.1/ft Percent
			49 E			-/								Recovery=93% RQD=61%, fair
			-50			-/								
	-		-51											
				End of boring at 51' bgs in dolomite. Reamed hole to 6" diameter to 51' bgs using air rotary and constructed										
				well from 50.3' bgs.										

State of Wisconsin Department of Natural Resources <u>Rc</u>	oute to: Watershed/Wa Remediation/I	astewater	Waste <u>Man</u> Other	agemen 🔀	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name Dane County Landfill Site No. 3 (F		ocation of Well	<u>ק.</u>	ft	Well Name MW-117A
Facility License, Permit or Monito	oring No. Local Grid O Lat		ated: []) or	Well Location	Wis. Unique Well No. DNR Well ID No
Facility ID	St. Plane	377910.95 ft. N	2012/2012	3.17 ft. E. S/C/N	Date Well Installed 03 / 02 / 2023 m m d d y y y y
Type of Well	SWILL	tion of Waste/Sou <u>SE</u> 1/4 of Sec	25, <b>T</b> . <sup>7</sup>	N.R. <sup>10</sup> ⊠E	Well Installed By: Name (first, last) and Fire
Well Code <u>12</u> /	Location of	Well Relative to W	ste/Source	Gov. Lot Number	Scott Klumb
Distance from Waste/ Enf. Sourceft. App	Stds. u Upgri	adient s ngradient n	Sidegradient		Soils & Engineering Services, Inc.
A. Protective pipe, top elevation	<u>902.38</u> ft. M	1		L. Cap and lock? 2. Protective cover	Yes No
B. Well casing, top elevation	902.36 ft. M		7 P	a. Inside diamete	A
C. Land surface elevation	<u>899.7</u> ft. M	SL _		b. Length:	5 ft.
D. Surface seal, bottom 85	8.7 ft. MSL or 4	1 ft.		c. Material:	Steel 🗙 04
12. USC <u>S</u> classification of soil r				مسر المسما فالدانية ال	Other
	W SW SP	-   \ []	$\mathbb{X}$	d. Additional pro If yes, describ	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
			$\square \land \land$	II yes, describ	Bentonite X 30
Bedrock X				3. Surface scal:	$\begin{array}{c} \text{Denomice}  \blacksquare  0 \\ \text{Concrete}  \blacksquare  0 \\ 1 \end{array}$
13. Sicve analysis performed?	Yes X No				Other
14. Drilling method used:	Rotary X 50			4. Material between	well casing and protective pipe:
17-5-11	v Stem Auger 🔀 4 1				Bentonite 🔲 3 0
	Other 🗌 🕮			Filter Sand	Other 🔀
				5. Annular space se	al: a. Granular/Chipped Bentonite 🗙 3 3
15. Drilling fiuid used: Water				b. <u>2:1</u> Lbs/gal r	nud weight Bentonite-sand slurry 🗙 35
Drilling Mud	03 None $99$		**		nud weight Bentonite slurry 🔲 3 1
16. Drilling additives used?	Yes X No				ite Bentonite-cement grout 50
			***		<sup>3</sup> volume added for any of the above
Describe N/A				f. How installed	
17. Source of water (attach analy	sis, if required):				Tremie pumped 👿 0 2 Gravity 🔀 0 8
Yahara Hills Pr	-		<b>**</b>	6. Bentonite seal:	Gravity $ X  = 0.8$ a. Bentonite granules $ X  = 3.3$
					3/8 in. $1/2$ in. Bentonite chips $32$
E. Bentonite seal, top 89	9.7 ft. MSL or	fi		c. <u>Pell plug, Ben</u>	tonite Pellets Other
F. Fine sand, top85	<sup>8.7</sup> ft. MSL or 4	11 ft.		7. Fine sand materia Red Flint #15	al: Manufacturer, product name & mesh size
G. Filter pack, top85	6.7 ft. MSL or	43 ft		a. <u>Volume addee</u>	
					ial: Manufacturer, product name & mesh size
H. Screen joint, top 85	4.7 ft. MSL or	5 ft.		a	Red Flint #40
I. Well bottom 84	9.4 ft. MSL or50	).3n.		<ul> <li>b. Volume adde</li> <li>9. Well casing:</li> </ul>	d <u>1.5</u> ft <sup>3</sup> Flush threaded PVC schedule 40 X 23
					Flush threaded PVC schedule 80 24
J. Filter pack, bottom $\_$ $\_$ $\_$ $\frac{84}{-}$	8.7 ft. MSL or	<sup>51</sup> ft.		( <u>-</u>	Other
K. Borehole, bottom 84	<sup>8.7</sup> ft. MSL or	<sup>51</sup> ft.		<ol> <li>Screen material:</li> <li>a. Screen type:</li> </ol>	Sch. 40 PVC Factory cut X 11
	8.3		×.	pooe opuerenzos support. d∎royau	Continuous slot 🔲 01
L. Borehole, diameter	- i <b>n</b> .			b. Manufacturer	Other L1
M. O.D. well casing $-2$ .	.38 in.			c. Slot size:	0. 0.1 in
N. I.D. well casing	.07 in.				(below filter pack): None 🗙 14
C2=2 192 192				8 <del></del>	Other 🗌 🔡
I hereby certify that the informati	on on this form is true	1=2	best of my kno	wledge.	
Signature		Firm SCS EN		2830 Dairy Drive	, Madison, WI 53718
				2000 Daily Drive	

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 Management 🔀
Remediation/Redevelop ment	
Facility/Project Name County Name	me Well Name
Dane County Landfill No. 3 (Proposed)	Dane MW-117A
Facility License, Permit or Monitoring Number         County Cod           13	le Wis. Unique Well Number DNR Well ID Number
1. Can this well be purged dry? Xes No	11. Depth to Water Before Development After Development
2. Well development method surged with bailer and bailed	(from top of a 1 _ 30 ft 46 _ 51 ft. well casing)
surged with baller and pumped       Image: A fill for the form of the fore	Date $\frac{b 03}{m m} \frac{16}{d} \frac{16}{y} \frac{2023}{y y y} \frac{03}{m m} \frac{16}{d} \frac{16}{y} \frac{2023}{y y y}$
compressed air $\square$ 20bailed only $\square$ 10	Time c. $\underline{11}: \underline{20}$ $\underline{\times}$ a.m. $\underline{12}: \underline{40}$ $\underline{\times}$ p.m.
pumped only     5 1       pumped slowly     5 0       Other	12. Sediment in well       5       0 inches       1       0 inches         bottom       13. Water clarity       Clear       10       Clear       20         Turbid [X]       15       Turbid [X]       25
3. Time spent developing well100 min.	Turbid $\boxtimes$ 1 5Turbid $\boxtimes$ 2 5(Describe)(Describe)
4. Depth of well (from top of well casisng) $-\frac{52}{2} \cdot \frac{9}{9}$ ft.	brown light 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 casing12 gal.	
7. Volume of water removed from well $\underline{} \underline{} \underline{} \underline{} \underline{} \underline{} gal.$	Fill in if drilling fluids were used and well is at solid waste facility:
8. Volume of water added (if any)0_gal.	14. lotal suspended mg/1 1000 0 mg/1 solids
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 X No (If yes, attach results)	First Name: Bri Last Name: Salome
	Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718
17. Additional comments on development:	
- Surged and purged for 30 minutes - DTW after was 38.91ft,	removed 12 gallons

- 1 well volume was equal to 12.1 gallons, 10 well volumes was 121 gallons - Surged dry 3 times w/ a 10 minute recharge period in between each purge to dry, 1st purge - 9 gal, 2nd - 5 gal, 3rd - 3 gal

- Sample taken at 1245

- Quick recharge

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: Billing
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.

MW-118

Route To:

Watershed/Wastewater Remediation/Redevelopment Other

Waste Management

SOIL BORING LOG INFORMATION Form 4400-122

Rev. 7-98

															Page	1 of 2
	y/Projec					License/	Permit	Monito	ring N	Number		Boring				
Dane County Landfill No. 3 (Proposed)SCS#: 25222268.00Boring Drilled By: Name of crew chief (first, last) and Firm				Data Da	Date Drilling Started Date Drilling					MW		D.:1	Lu - Mada - 1			
	-	•	Name of	f crew chief (first, last) a	and Firm	Date Dr.	illing S	tarted		Da	te Drill	ing Cor	npleted	L		ing Method
	tt Klu		erina	Services, Inc.			1/27	/2023				1/27/2	2023		HS	A, 4.25" ID
WIU	ique W	ell No		DNR Well ID No.	Common Well Name	Final Sta				Surfac	e Eleva		2023	B	prehole	Diameter
	•	0862			MW-118			Feet			01.91		1SL			.3"
Local	Grid Or		(es	stimated: 🗌 ) or Bo		1				 	Local C					
State	Plane		377	,989 N, 2,169,161	E S/C/N	La	at	°				Feet	t 🗆 N	J		Feet 🗌 E
SE		of S	E 1	/4 of Section 25,	t 7 n, r 10 e	Lon	g	°	<u> </u>					5		W
Facilit	y ID			County		County Co	ode			City/ or	-					
				Dane		13		City	of M	ladisor	1					
Sar	nple											Soil	Prop	erties		
	ii) &	s	स इ	Soil/F	Rock Description											
o	Att. ed (	ount	Fe	And G	eologic Origin For					_	u			>		ıts
Lyper	th / ver	, Cc	h In		ch Major Unit		CS	hic		FID   am	dard trati	ent	t g	icity		w/ mer
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		5		O S O	Graphic Log	Well	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	200	RQD/ Comments
<u>a N</u>	L R	щ	<u>– –</u>	ODCANIC SILT (OL	), very dark grayish bro						NA				Ь	<u> </u>
			F	(10YR 3/2), with root	s. (Topsoil)	WII .	OL	1/ <u>1</u> /								
S1	11	23 56						<u></u>	ż			M				
		50	E	LEAN CLAY (CL), d	lark yellowish brown (1	0YR 3/4)		+								
L			$E^{-2}$	with black mottling, n	nostly silt with clay, som	ne fine										
			F a	(Loess)	initorm, massive, trace	roots.	CL									
			E_4													
S2	11	$22 \\ 2$	- 1	SILTY SAND (SM).	dark brown (10YR 3/3)	. mostly					1.5	W				Depth to water is
		2	E_5	fine sand with medium	n to coarse sand and so	me clay,										~4.5' bgs.
			E	fine to coarse gravel (1 massive. (Till)	mostly dolomite), unifo	rm,										
Г	-		-6	(Holy Hill Formation	, Horicon Member)											
		1.1	E				SM			• : :						
S3	16	$11 \\ 2$	-7						目			W				
L			F													
			-8	Kh = 2.22E-03  cm/s					1 🗄							
Г			E													
S4	14		-9	POORLY GRADED	SAND WITH SILT (SI	P-SM),			日			w				
54	14		Ē.	yellow (10YR 8/8), fin	ne to medium grained.											
			E <sup>-10</sup>	(Weathered Sandstone (Ancell Group, St. Pet	ter Formation, Tonti Me	ember)										
			÷ 11		,	,										
			E <sup>-11</sup>	Trace pieces of consol	lidated sandsonte.				日	• : : •						
S5	18	76 13	E-12				SS2					W				
		15	F 12	At 11' to 12.5' POORI SILT (SP-SM)	LY GRADED SAND W	VITH	002			• 1						
			E-13	% g-s-si+cl = 2-93-6												
Г			E						目	•						
		6 26	-14													
S6	18	32	F						日			W				
			-15						⊡ ⊟	· .						

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

Signature	Firm	SCS Engineers
Jackie Rennebohm, PG		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	MV	V-118 Use only as an attachment to Form 4400-12	2.								Page	2 of 2
	nple									Soil	Prope			
	. & (in)	ıts	eet	Soil/Rock Description										
er ype	h Att ered	Cour	In F	And Geologic Origin For	$\mathbf{N}$	ю.	E E		ard atior	nte	_	bity		ients
lumb nd T	engtlecov	low	epth	Each Major Unit	$\mathbf{S}$	iraph og	Vell Jiagra	ID/F	tanda eneti	loist	iquic	lastic ndex	200	QD/
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Each Major Unit POORLY GRADED SAND WITH SILT (SP-SM), yellow (10YR 8/8), fine to medium grained. (Weathered Sandstone Bedrock) (SS2) (Ancell Group, St. Peter Formation, Tonti Member) End of boring at 15.3' bgs in sandstone. Constructed well from 15.3' bgs.	<u>D</u> 882	Craphic Craphic			Standard Penetration	Moisture Content		Plasticity Index	P 200	RQD/ Comments

	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-118
Facility License, Permit or Monitoring No.		ated: ) or Well Location Long	Wis. Unique Well No. DNR Well ID No. WD862
Facility ID	St. Plane 377988.64 ft. N Section Location of Waste/Sou	2169160.61 ft. E. S/C/N	Date Well Installed m m d d y y y
Type of Well Well Code 11 / MW	SE1/4 of SE 1/4 of Sec.	<u></u> 25, <b>T</b> . <u></u> 7 <b>N</b> , <b>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 W u Upgradient s	Sidegradient	Soils & Engineering Services, Inc.
Sourceft. Apply X	d Downgradient n 904.23 ft. MSL	Not Known   1. Cap and lock?	X Yes No
B. Well casing, top elevation	904.27 ft. MSL	2. Protective cover	pipe:
A TRACT	901.9 ft. MSL	a. Inside diameter b. Length:	5  ft.
C. Land surface elevation B97.9 ft. MS		c. Material:	Steel 🔀 04
12. USC <u>S classification of soil near scree</u>	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	491-265
SM SC MLX MH		3. Surface scal:	Bentonite 🔀 30
13. Sieve analysis performed?	Yes No		Concrete 0 1 Other
	tary 50	4. Material between	well casing and protective pipe:
Hollow Stem An		Filter Sand	Bentonite 30
O		5. Annular space se	Other X a. Granular/Chipped Bentonite X 3 3
15. Drilling fiuid used: Water 0 2	Air 0 1	bLbs/gal 1	nud weight Bentonite-sand slurry 35
Drilling Mud 0 3	None X 99	cLbs/gal 1	nud 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
Describe		f, How installed	: Tremie 01
17. Source of water (attach analysis, if requ	uired):		$\begin{array}{c} \text{Tremie pumped} \\ \hline 0 \\ 2 \\ \hline \end{array}$
-		6. Bentonite seal:	Gravity 📈 08 a. Bentonite granules 🗌 33
001.0		b. 🗌 /4 in. 🔀	
	SL or $\_\_\0ft$ .	c	Other
F. Fine sand, top897.9 ft. MS	SL or 4 ft.	Red Flint #1	al: Manufacturer, product name & mesh size
G. Filter pack, top897.4 ft. MS	SL or $4.5$ ft.	a. b. Volume adde	$\frac{0}{d}$ 0.5 ft <sup>3</sup>
	5	1 m m m m m m m m m m m m m m m m m m m	rial: Manufacturer, product name & mesh size
H. Screen joint, top 890.9 ft. MS	SL or5 ft.	ah. Volume adde	$\frac{\text{Red Flint #40}}{\text{d} \qquad 2.0 \text{ ft}^3}$
I. Well bottom 886.6 ft. MS	SL or15.3 ft.	9. Well casing:	Flush threaded PVC schedule 40 X 23
886.64.14	SL or $15.3$ ft.		Flush threaded PVC schedule 80 24
		10. Screen material:	Other
K. Borehole, bottom $\_$ $\_$ $\frac{886.6}{-}$ ft. MS	SL or $15.3$ ft.	a. Screen type:	Factory cut 🔀 11
L. Borehole, diameter $-\frac{8.3}{-1}$ in.			Continuous slot $\Box$ 0 1
L. Borehole, diameter $  -$ in.		b. Manufacturer	Campbell (Monoflex)
M. O.D. well casing $-2.38$ in.		c. Slot size:	0. <u>01</u> in.
N. I.D. well casing $2.07$ in.		d. Slotted length 11. Backfill material	
<ul> <li>Dring resident strategy and str</li></ul>			Other
I hereby certify that the information on this		best of my knowledge.	
Signature MRmm	Firm SCS EN	IGINEERS, 2830 Dairy Drive	, Madison, WI 53718

t 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

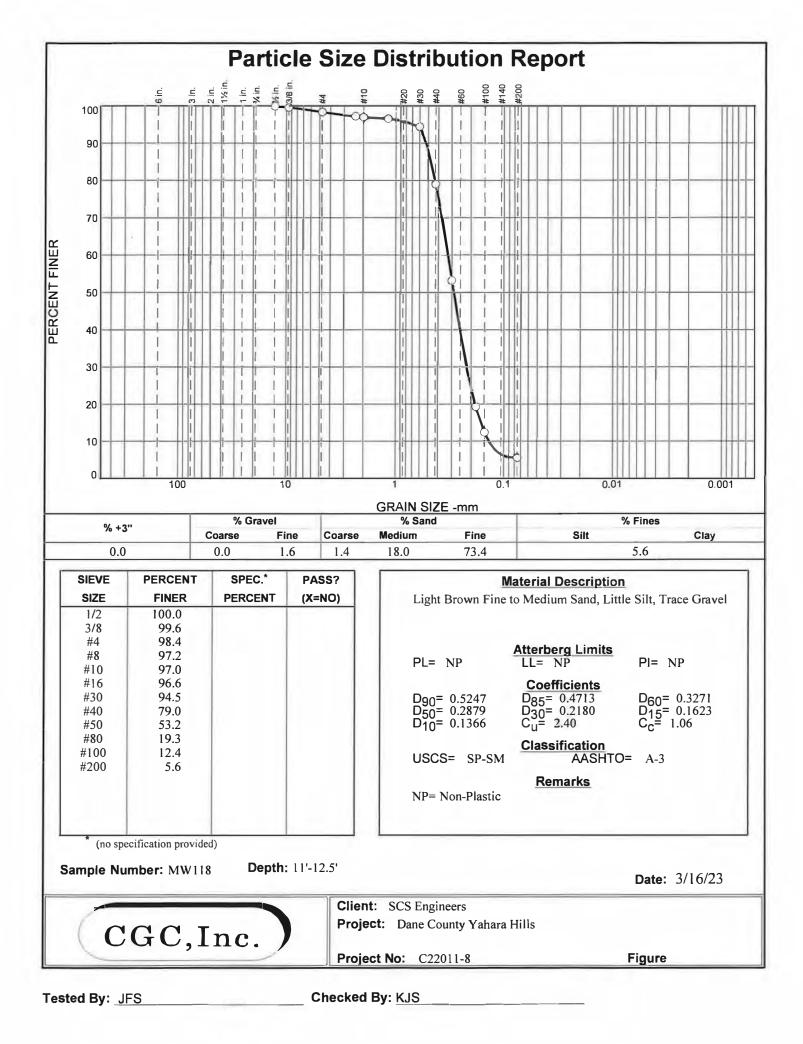
# MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

13	Well Name MW-118
Facility License, Permit or Monitoring Number       County Code 13       Wis.         1. Can this well be purged dry?       Yes       X       No         1. Can this well be purged dry?       Yes       X       No         2. Well development method       4 1       with surged with bailer and bailed       4 1         surged with bailer and pumped       6 1       6 2       D         surged with block and pumped       6 2       D       T         bailed only       10       10       D       D         pumped only       5 5 1       D       D       D         0. Other       5 0       13. W       3. W       3. Time spent developing well      70_min.       13. W         4. Depth of well (from top of well casisng)      17.6_ft.       ft.       5.       Inside diameter of well      76_8 gal.       Fill ir         7. Volume of water in filter pack and well casing      76_8 gal.       Fill ir       so         9. Source of water added (if any)      0_0 gal.       15. C       16. W         10. Analysis performed on water added?       Yes       X       No       Firs	
13	
1. Can this well be purged dry?       Yes       Yes       No         1. I. Can this well be purged dry?       Yes       Yes       No         2. Well development method       41       ft         surged with bailer and bailed       41       with surged with bailer and pumped       61         surged with block and bailed       42       D         surged with block and pumped       62       T         bailed only       10       70         pumped slowly       51       12. Sc         Other       90       50         3. Time spent developing well      70 min.         4. Depth of well (from top of well casisng)      17.6 ft.         5. Inside diameter of well      76.8 gal.         7. Volume of water in filter pack and well      6.8 gal.         8. Volume of water added (if any)      0.0 gal.         9. Source of water added (if any)      0.0 gal.         9. Source of water added       NA	nique Well Number DNR Well ID Number
2. Well development method       □11. If         surged with bailer and pumped       □41         surged with bailer and pumped       □61         surged with block and bailed       □42         surged with block and pumped       □62         surged with block and pumped       □62         surged with block, bailed and pumped       □62         surged with block, bailed and pumped       □70         compressed air       □20         pumped only       □51         pumped slowly       □50         Other       □         3. Time spent developing well      70 min.         4. Depth of well (from top of well casisng)      17.6ft.         5. Inside diameter of well      2 .07in.         6. Volume of water in filter pack and well      3 gal.         7. Volume of water removed from well      76. 88 gal.         8. Volume of water added (if any)      0 0. 00 gal.         9. Source of water added       NA         10. Analysis performed on water added?       □Yes         10. Analysis performed on water added?       □Yes	WD862
· · · · · · · · · · · · · · · · · · ·	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}{} \\ \end{array}{} \\ \end{array}{} \\ \end{array}{} \\ \hline m \ m \ d \ d \ y \ y \ y \ y \ y \ m \ m \ d \ d \ y \ y \ y \ y \ m \ m \ d \ d \ y \ y \ y \ y \ m \ m \ d \ d \ y \ y \ y \ y \ m \ m \ d \ d \ y \ y \ y \ y \ m \ m \ d \ d \ y \ y \ y \ y \ y \ m \ m \ d \ d \ y \ y \ y \ y \ y \ m \ m \ d \ d \ y \ y \ y \ y \ y \ y \ m \ m \ d \ d \ y \ y \ y \ y \ y \ y \ y \ y$
(If yes, attach results)	Name: Ethan Last Name: Schaefer
	SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718
17. Additional comments on development:	
- Surged with bailer 30 minutes, purged 10 gallons	

-1 0 well volumes =98 gallons - Pumped 66.8 gallons

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.



MW-118A

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	-					Li	icense/F	ermit/	Moni	torii	ng Nı	umber			, Numb				
				No. 3 (Proposed)	SCS#: 25222268.00							-	~		MW-				
-		-	Name of	f crew chief (first, las	t) and Firm	D	ate Dril	ling Si	tarted			Da	ate Drill	ing Coi	npleted				Aethod .25" ID
	tt Klu		orina	Services, Inc.				2/17	/202	2				2/20/2	2023				Core
WI Un				DNR Well ID No.	Common Well Name	e Fi	inal Stat					Surfa	ce Eleva		2023	В	orehole		
	-	0864	-		MW-118A	-		95.9					901.8 I		ISL			" & :	
Local			(es	stimated: 🗌 ) or	Boring Location				0		~ _		Local (				0.0		
State 1	Plane			,985 N, 2,169,1			Lat	:						Fee	t 🗆 N	1		Feet	Ε
SE		of S	E 1	/4 of Section 25,	t 7 n, r 10 e		Long		°	'		"			□ s				W
Facilit	y ID			County			unty Coo	le					Village						
				Dane		13	, 		City	y of	f Ma	disor	n						
San	ıple													Soil	Prope	erties		-	
	& (ii)	ts	et	So	il/Rock Description														
. e	Att. red	uno	n Fe	And	Geologic Origin For						c		dtion	e		2			ints
Typ	gth ovei	Blow Counts	Depth In Feet		Each Major Unit			CS	phic		.I gran	FII	ndar etrai	stur tent	it di	ticit			u (
Number and Type	Length Att. & Recovered (in)	Blo	Dep					υS	Graphic	Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		Comments
				Blind drilled to 16'	bgs.														
			-1	(See MW-118 log f Split-barrel sample	for lithology from 0' to 15 d from 16' to 47' bgs on 2	5' bgs.) 2/17/2	) 023												
				Cored hole from 47	" to 52.8' bgs on 2/20/202	23 and	d set												
			E_2	well MW-118A at	46.3' bgs.														
			-3																
			Ē																
			<u>-</u> 4																
			E																
			-5																
			Ē																
			<u>–</u> 6																
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<u> </u>		- 41 4 -	1.12	muntion on this former	is true and correct to the k	haat at	£ 1						-						

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

Signature	Firm	SCS Engineers
Jackie Rennebohm, PG		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

	g Numb	ber	MW	V-118A Use only as an attachment to Form 4400-1	22.									Page	2 of 3
San	nple									Soi	l Pr	ope	rties		
	& (in)	ts	set	Soil/Rock Description											
r pe	Att. red	oun	n Fe	And Geologic Origin For	s	0	я		-id tion	e +			ty		ents
Tyj Tyj	ngth sove	Blow Counts	Depth In Feet	Each Major Unit	S C S	Graphic Log	Well Diagram	PID/FID	ndar etra	Moisture	pin	Limit	Plasticity Index	00	RQD/ Comments
Number and Type	Length Att. & Recovered (in)	Blo	Dej		n s	Grap Log	Well Diagr	PIL	Standard Penetration	U0 W0	Lig	Lin	Plastic Index	P 200	Col
Г			-16	$\mathbf{V}_{\mathbf{A}} \mathbf{D} \mathbf{I}_{\mathbf{A}} \mathbf{D} \mathbf{D} \mathbf{D} \mathbf{D} \mathbf{D} \mathbf{D} \mathbf{D} $											
~ 1	10	10.8	-	VARIABLE LITHOLOGY (SS3), white (10YR 8/1), light gray (10YR 7/1), and weak red (10R 4/3), fine to medium sand, interbedded with laminated layers of silt, silty sand diamict, clay, and shale, with clasts of dolomite and chert.											
S1	18	$\begin{array}{c} 10\ 8\\ 14 \end{array}$	-17	medium sand, interbedded with laminated layers of silt silty sand diamict clay and shale with clasts of		· · · · · ·				W					Depth to water at 5.9' bgs.
				dolomite and chert.											
_			-18	(Ancell Group, St. Peter Formation, Readstown Member)											
			-19	At 18.5' to 20', CLAYEY SAND (SC)											
S2	18	36 8	_	At 18.5' to 20', CLAYEY SAND (SC) % g-s-si-cl = 1-54-23-23 LL = 39 PI = 22						W					
L			-20	PI = 22											
			E												
			-21			· · · · · · · · · · · · · · · · · · ·									
			-22												
						· · · · · ·									
			-23												
			E 24												
S3	18	$\begin{array}{c}11\ 10\\13\end{array}$	-24							W					
		15	-25												
			-26												
			-27												
			_ <i>21</i>												
			-28		SS3										
Γ															
S4	5.5	100/5.5'	-29			· · · · · ·				W					
			-30												
			-31												
			-												
			-32												
			-33												
Г			_												
S5	3.5	100/3.5"	-34							W					
35	5.5		E							<b>v</b>					
			-35												
			-36												
			Ē			· · · · · · · · · · · · · · · · · · ·									
			-37												
								1							
			-38			· · · · · · · · · · · · · · · · · · ·									
		10 20/4	-39	At 39' to 40', FAT CLAY (CH) % g-s-si-cl = 4-16-23-57				1							
S6	8	38 30/4" 30/2"		% gs-si-cl = 4-16-23-57 LL = 58 PI = 26						W					Harder drilling at 39' bgs.
Ĺ			-40	11 20	I	1	.1  . <sup>-</sup>	]							

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

Borin	g Numl	ber	MW	V-118A Use only as an attachment to Form 4400-1	22.								Page	<u>3 of 3</u>
	nple									Soil	Prope		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
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
S7	8	100/6"	-41 -42 -43 -44 -45 -46	VARIABLE LITHOLOGY (SS3), white (10YR 8/1), light gray (10YR 7/1), and weak red (10R 4/3), fine to medium sand, interbedded with laminated layers of silt, silty sand diamict, clay, and shale, with clasts of dolomite and chert. (Ancell Group, St. Peter Formation, Readstown Member) At 43' to 44', SANDY SILT/SANDY LEAN CLAY (ML/CL) % g-s-si+cl = 7-40-53 Kh = 7.99E-05 cm/s	SS3					W				
Run 1	69.6		-47 -48 -49 -50 -51 -52	DOLOMITE (DL5), gray (10YR 6/1) and yellow (10YR 7/6), sandy, massive, with round, oval, and elongated vugs, and chert. (Prairie du Chien Group)	DL5									FF=1.54/ft Percent Recovery=100% RQD=83%, good
				End of boring at 52.8' bgs in dolomite. Reamed hole to 6" diameter using air rotary and constructed well from 46.3' bgs.										

	Natershed/Wastewater	Waste Manage	amoni 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> N.	ftW.	Well Name MW-118A
Facility License, Permit or Monitoring No.	Local Grid Origin (estima	tted: ∐) or W Long	ell Location	Wis. Unique Well No. DNR Well ID No
Facility ID	St. Plane 377985.41 ft. N	,2169163.5		Date Well Installed 02 / 20 / 2023
Type of Well Well Code 12 / PZ	Section Location of Waste/Sou $SE_{1/4}$ of $SE_{1/4}$ of Sec.	<u>25</u> . <b>T</b> . <u>7</u> N	I, R. <u>10</u> <b>E</b> ₩	m m d d v v v y           Well Installed By: Name (first, last) and Firm           Scott Klumb
Distance from Waste/ Enf. Stds. Sourceft. Apply	Location of Well Relative to W u Upgradient s	Sidegradient	lov. Lot Number	Soils & Engineering Services, Inc.
	d Downgradient n 904.35 ft. MSL		Cap and lock?	Yes No
B. Well casing, top elevation	904.26 ft. MSL	137	Protective cover p 1. Inside diameter	·
C. Land surface elevation	901.8 ft. MSL	Charles 1	o. Length: c. Material:	$\begin{array}{c} \underline{5} \text{ ft.} \\ \text{Steel}  \boxed{\times}  0 \text{ 4} \end{array}$
D. Surface seal, bottom $\_$ $\_$ $\_$ $\frac{865.0}{1}$ ft. MS	SL or6.8 ft.			
			d. Additional prob If yes, describe	
Bedrock X		3, 8	Surface scal:	Concrete 0 1
	Yes No	6001 -	Bent Grout Mix	
14. Drilling method used: Ro Hollow Stem At	tary 50	350 4. N	Material between	well casing and protective pipe: Bentonite X 30
1000			Filter Sand	
15. Drilling fiuid used: Water 0 2		5. /	Annular space sea	
	Air $01$ None $99$	Ь.		nud weight Bentonite-sand slurry       35         nud weight Bentonite slurry       31
2004 - 2004000 - 200		c. 		ite Bentonite-cement grout 50
16. Drilling additives used?	Yes XNo	е		volume added for any of the above
Describe <u>N/A</u>	8	f.	How installed:	$\begin{array}{c c} \text{Tremie} & \mathbf{X} & 0 \\ \hline \mathbf{X} & 0 \\ \end{array}$
17. Source of water (attach analysis, if requ	uired):			Gravity 🗙 08
N/A	📓	5864	Bentonite seal:	a. Bentomite granules $33$ 3/8 in. $1/2$ in. Bentonite chips $32$
E. Bentonite seal, top $901.8$ ft. MS	5L or 0 ft.		Bent Pellets	Other 🔀 🎬
F. Fine sand, top865.0 ft. MS	SL or $\_ \_ \_ 36.8 \text{ ft.}$	7.1	Fine sand materia Red Flint #15	l: Manufacturer, product name & mesh size
G. Filter pack, top863.0 ft. MS	L or <u>38.8</u> ft.		a o, Volume added	
H. Screen joint, top860.8 ft. MS	$L \text{ or } = -\frac{41}{2} \text{ ft.}$	5 / .		al: Manufacturer, product name & mesh size Red Flint #40
I. Well bottom 855.5 ft. MS	SL or 46.3 n.		<ul> <li>Volume added</li> <li>Well casing:</li> </ul>	Flush threaded PVC schedule 40 🔀 23
J. Filter pack, bottom 849.0 ft. MS	SL or52.8 ft.		N:	Flush threaded PVC schedule 80       24         Other
K. Borehole, bottom849.0 ft. MS	1.1.1	77	Screen material: . Screen type:	Sch. 40 PVC Factory cut 🔀 11
6.0		۲. The second		Continuous slot 🔲 01
L. Borehole, diameter $  -$ in.		Λ <sub>b</sub>	Manufacturer	Campbell (Monoflex)
M. O.D. well casing $-\frac{2.38}{1000}$ in.		c.		0. <u>01</u> in.
N. I.D. well casing $2.07$ in.		11.1	-	(below filter pack): None X 1 4 Other
I hereby certify that the information on this		best of my knowl	edge.	
Signature Budget B. D.	Firm SCS EN	IGINEERS. 28	30 Dairv 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.

State of Wisconsin Department of Natural Resources

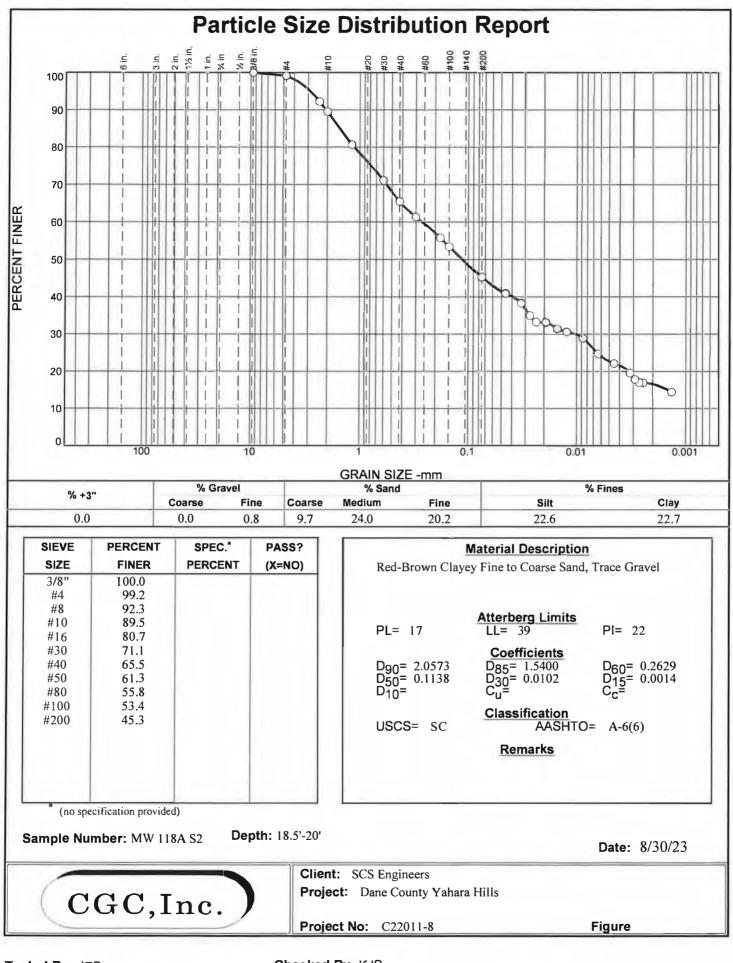
MONITORING	WELL	DEVELOPMENT
Form 4400-113B		Rev. 7-98

Remediation/Redevelop ment       Other         Facility/License, Permit or Monitoring Number       County Name       Dane       MW-118A         Facility/License, Permit or Monitoring Number       County Code       Wis. Unique Well Number       DNR Well ID Number         13	Route to: Waters	hed/Wastewater	Waste Management	X		
Dane       MW-118A         Facility Leense, Permit or Monitoring Number       County Code       Wis. Unique Well Number       DNR Well ID Number         12       Wis. Unique Well Number       DNR Well ID Number	Remed	iation/Redevelop ment	Other			
Facility License, Permit or Monitoring Number       County Code       Wis. Unique Well Number       DNR Well ID Number         1. Can this well be purged dry?       X Yes       No       No       No       No         2. Well development method surged with bailer and bailed       4 1       Surged with bailer and bailed       4 1       Surged with bailer and bailed       4 1         surged with bailer and bailed       6 1       Surged with block and pumped       6 2       Surged with block and pumped       2 0         surged with block and pumped       6 2       Date $b_{-03}^{-0.7} / \frac{17}{d} / \frac{2023}{y y y} \frac{0.3 / 17 / 2023}{m m d d y y y} \frac{0.3 / 17 / 2023}{m m d d y} \frac{0.3 / 17 / 2023}{m m d d y} \frac{0.3 / 17 / 2023}{m m d d y y} \frac{0.3 / 17 / 2023}{m m d d y} 0.3 / 1$	Facility/Project Name	County Name		Well Name		
Image: strate diversion of the strate ditension of the strate ditension of the strate ditensio	Dane County Landfill No. 3 (Proposed)		Dane		MM	/-118A
2. Well development method         surged with bailer and bailed         surged with block and pumped         compressed air         bailed only         pumped only         pumped slowly         Other         3. Time spent developing well         -90 min.         4. Depth of well (from top of well casisng)         -49. 1         ft.         S. Inside diameter of well         casing         -18. 6       gal.         7. Volume of water added (if any)         p. 0. 0       gal.         9. Source of water added       NA         10. Analysis performed on water added?       Yes       No         (If well developed by: Name: Bri       Last Name: Salorne         first Name: Bri       Last Name: Salorne	Facility License, Permit or Monitoring Num				DNR Well I	D Number
auged with bile and pumped $11$ surged with block and bailed $42$ surged with block and pumped $61$ surged with block and pumped $62$ surged with block, bailed and pumped $62$ compressed air $20$ bailed only $10$ pumped only $51$ pumped slowly $50$ Other		🗙 Yes 🗌 No	(from top of	59		
pumped slowly Other	surged with bailer and pumped surged with block and bailed surged with block and pumped surged with block, bailed and pumped compressed air bailed only	X       61         □       42         □       62         □       70         □       20         □       10	Date Time	c. 8:55	x a.m. <u>p.m.</u>	10 <u>25 </u> p.m.
4. Depth of well (from top of well casisng) $-\frac{49}{2} \cdot \frac{1}{1}$ ft. 5. Inside diameter of well $-\frac{2}{2} \cdot \frac{07}{2}$ in. 6. Volume of water in filter pack and well casisng $-\frac{18}{2} \cdot \frac{6}{2}$ gal. 7. Volume of water removed from well $-\frac{42}{2} \cdot \frac{0}{2}$ gal. 8. Volume of water added (if any) $-\frac{0}{2} \cdot \frac{0}{2}$ gal. 9. Source of water added $-\frac{18}{2} \cdot \frac{0}{2}$ gal. 10. Analysis performed on water added? $-\frac{18}{2} \cdot \frac{18}{2}$ No (If yes, attach results) $-\frac{18}{2} \cdot \frac{18}{2}$ No (If yes, attach results) $-\frac{18}{2} \cdot \frac{18}{2}$ No ( $-\frac{18}{2} \cdot \frac{18}{2} \cdot \frac{14}{2} \cdot \frac{14}{2$	pumped slowly	=	bottom	Clear 🔲 1	 . 0 C	ear 20
1 $2$ , $07$ _ in.         5. Inside diameter of well $-2$ , $07$ _ in.         6. Volume of water in filter pack and well casing $-18$ , $6$ gal.         7. Volume of water removed from well $-42$ , $0$ gal.         8. Volume of water added (if any) $-0$ , $0$ gal.         9. Source of water added       NA         10. Analysis performed on water added?       Yes         Yes       X         No       First Name: Bri         First Name: Bri       Last Name: Salome         Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718	3. Time spent developing well	<u>90</u> min.		(Describe)	(D	escribe)
5. Inside diameter of well      2 . 07 in.         6. Volume of water in filter pack and well casing      18 . 6gal.         7. Volume of water removed from well      42 . 0gal.         8. Volume of water added (if any)      0. 0gal.         9. Source of water added	4. Depth of well (from top of well casisng)	<u> </u>		-		
casing       -       -       18       6       gal.         7. Volume of water removed from well       -       42       0       gal.         8. Volume of water added (if any)       -       0       0       gal.         9. Source of water added       NA       15. COD       -       -       mg/l       -       -       mg/l         10. Analysis performed on water added?       Image: Yes       Image: No       Image: No       16. Well developed by: Name (first, last) and Firm         First Name: Bri       Last Name: Salome       First: Name: Bri       Last Name: Salome         First: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718       53718	5. Inside diameter of well	$-\frac{2}{-}\cdot\frac{07}{-}$ in.				
8. Volume of water added (if any)      0_0_gal.         9. Source of water added       NA         16. Well developed by: Name (first, last) and Firm         10. Analysis performed on water added?       Yes X No         (If yes, attach results)       Yes X No			Fill in if drilling fluid	is were used a	nd well is at s	olid waste facility:
8. Volume of water added (if any)      0_0_gal.       solids         9. Source of water added       NA       15. COD      mg/l         10. Analysis performed on water added?       Yes       X       No         16. Well developed by: Name (first, last) and Firm         First Name: Bri       Last Name: Salome         Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718	7. Volume of water removed from well	$\underline{}$ $\underline{\underline{}}$ $\underline{\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$			mal	355 0
10. Analysis performed on water added?       Yes       Yes       In Solution of the	8. Volume of water added (if any)	<u> </u>	· · ·		• <sup>111</sup> B/1 _	<u></u>
10. Analysis performed on water added?       Yes       Yes       Image: Selome         (If yes, attach results)       First Name: Bri       Last Name: Salome         Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718	9. Source of water added	NA	15. COD		mg/l	<u></u> mg/l
(If yes, attach results) Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718	1 <u>2</u>	<u>1</u> 2	16. Well developed b	y: Name (first, l	last) and Firm	
		🗌 Yes 🔀 No				
	17 Additional comments on developments	-	Firm: 303 ENGIN	12110, 2000		, waaloon, wi 337 10

Surged/purged for 30 minutes, purged 8 gallons
Pumped dry 3 times; 1 - 18 gallons, 2 - 7 gallons, 3 - 9 gallons
Quick recovery, after pumping, it would cycle 5 seconds strong flow, low flow 10 seconds, 5 seconds no flow
10 minute recharge period in between purges
Sample time 1035

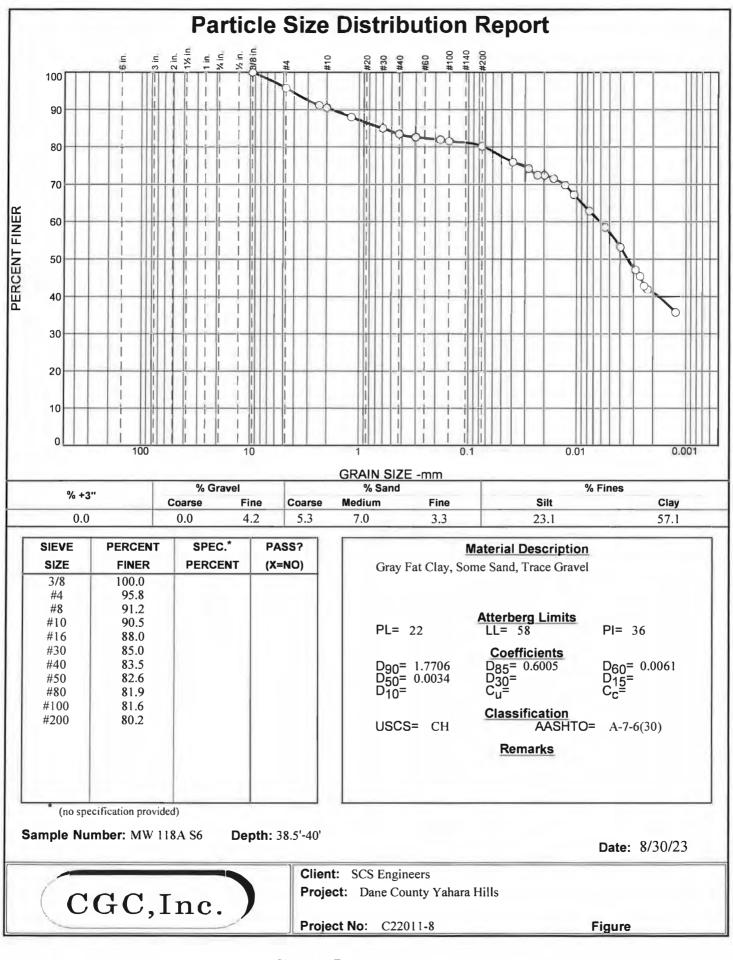
Name and Address of Facility Contact /Owner/Responsible Party         First         Name:         Allison         Last         Name:         Rathsack	I hereby certify that the above information is true and correct to the best of my knowledge.
Facility/Firm:Dane County Dpt. of Waste & Renewables	Signature: Jame Min
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.

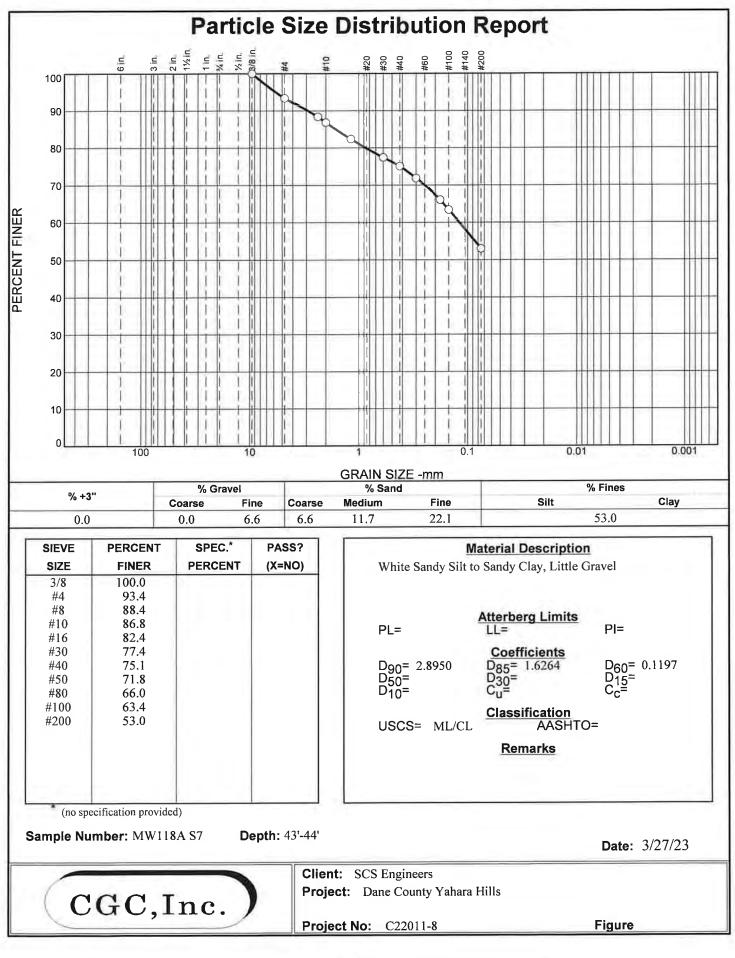


Tested By: JFS

Checked By: KJS



Checked By: KJS



Checked By: KJS

MW-119

Route To:

Watershed/Wastewater Remediation/Redevelopment Other

Waste Management

SOIL BORING LOG INFORMATION Form 4400-122

Rev. 7-98

															Page	1 of 3				
		ct Nam				License/	Permit	Monito	ring N	umber			ng Number MW-119							
				No. 3 (Proposed)	SCS#: 25222268.00															
-		•	Name o	f crew chief (first, last) ar	nd Firm	Date Dri	lling S	tarted		Da	te Drilli	ing Con	npleted			ing Method				
	tt Klu			a : .			1 /0 5					1 10 7 10			HS	A, 2.25" ID				
				Services, Inc.		F' 1.04		/2023				1/27/2	2023			<b>D</b> : (				
WI Unique Well No. DNR Well ID No. Common Well Nan						Final Sta	tic Wa	ter Leve	el		e Eleva		ICI	Bo	Borehole Diameter 6.0"					
Local		D861		stimated: 🗌 ) or Bori	MW-119					9	19.3 I Local (				6	.0**				
State		ngm		,019  N, 2,169,756		La	t	0	'	"	Local									
State		of S		1/4  of Section 25,	т7 N, R 10 E			。	,			Feet				Feet 🗌 E				
Facilit		01 51	ו נ	County		Long County Co	-	Civil T	own/C	itv/ or	Village									
1 denne	, 12			Dane		13	ae			adisor	U									
San	nple					10					-	Soil	Prope	orties						
0	-	1		G :1/D												-				
	Length Att. & Recovered (in)	nts	Depth In Feet		ock Description															
r pe	. Ati ered	Blow Counts	ШF		ologic Origin For		s	5	5		rd	e e		ity		ents				
Type	ngth Sove	_ ĕ	oth	Each	h Major Unit		SC	indu 3	11 International	PID/FID	nda	Moisture Content	Liquid Limit	Plasticity Index	200	D/				
Number and Type	Ler Rec	Blo	Del				D S	Graphic Log	Well Diagram	b I I	Standard Penetration	Moisture Content	Liquid Limit	Plastic Index	P 2	RQD/ Comments				
			_	ORGANIC SILT (OL)		vn	ML	711× 71												
		2.2	ŧ.	(10YR 3/2), with roots				1												
S1	14	23 34	Ē	LEAN CLAY (CL), of sand, soft, cohesive, un							3.5	M								
			E_2	(Loess)			CL													
			⊨ <sup>∠</sup>	At 0.5' to 2.5', LEAN 0 % g-s-si-cl = 0-6-49-45	CLAY (CL)															
			E_3	LL=48, PI=24	,	~														
_			E	K = 2.0  x  10-8  cm/sec	11 1 1 (10)75															
			E-4	SILTY SAND (SM), y fine sand with medium	to coarse sand and fin	5/4), e to														
S2	16	2 2 2	Ē	coarse gravel. (Outwas			SM					M								
			-5				5.11													
			E																	
			-6																	
~		4.5	F	SILTY SAND (SM), b	rown (10YR 5/3), most	ly fine														
S3	17	4 5 5	-7	sand with medium to co to coarse gravel (mostly	oarse sand and some cla v dolomite), uniform, m	ay, fine	SM					M								
L			E	(Till) (Holy Hill Forma	tion, Horicon Member)															
			-8	SILTY SAND (SM), re	eddish yellow (7.5YR 7	/8), pink														
Γ			E	(7.5YR 7/4), white (7.5 (7.5YR 3/2), fine to me	edium grained, with silt	wn														
S4	16	21 32 37/4"	-9	massive. (Sandstone Be	edrock) (SS2)							M+								
54	10	37/4"	E.	(Ancell Group, St. Pete	r Formation, Tonti Mer	nber)						141								
			$=^{10}$																	
			F																	
			E-11				SS2													
S5	9	100/6"	E-12									M+								
			E-13																	
-			Ē																	
		100/17	-14																	
S6	10	100/4"	F									M								
			-15																	

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

Signature (	DA DA	Firm	SCS Engineers
	for Knopp	Jackie Rennebohm, PG	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

SILTY SAND (SM), reddish yellow (7.5YR 7/8), pink	ats
Number       Number         Numper       Numper         Numper       Numper <td< td=""><td>nts</td></td<>	nts
And Geologic Origin For Each Major Unit Bach Major Unit Each Major Unit Bach Major Unit Bach Major Unit C S S D District Bach Major Unit D District C S S D District Bach Major Unit C S S D District C S S D District C S S S D District C S S S S S S S S S S S S S S S S S S S	nts
Line       Line <thline< th="">       Line       Line</thline<>	G
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	P 200 RQD/ Comments
SILTY SAND (SM), reddish yellow (7.5YR 7/8), pink	
- 16 (7.5YR 3/2), fine to medium sand, with silt, massive.	
s7 4 $100/2" = 17$ (Ancell Group, St. Peter Formation, Tonti Member) M	Tougher drilling.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
s9 3 100/2" - 24 M	
S10 $1.5 \stackrel{100/1.5}{=} 100 \stackrel{2.5}{=} 100 \stackrel{1.5}{=} 100 $	
S11 6 100/5" - 34 M	Donth to water of
	Depth to water at $\sim$ 36' bgs.
-38 Kh = 3.17E-03 cm/s	
At 38.5' to 40', SILTY SAND (SM)	
S12 $6 \frac{100/5"}{5} = \frac{39}{9} \frac{4150.5 \text{ to 40}, \text{SLTT SAND (SW)}}{9 \text{ g-s-si+cl} = 1-85-15} \text{ W}$	

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

<u>MW-119</u> 3 of 3 Boring Number Use only as an attachment to Form 4400-122. Page Sample Soil Properties Length Att. & Recovered (in) Soil/Rock Description Depth In Feet Blow Counts Standard Penetration Comments Number and Type And Geologic Origin For Plasticity Index Diagram Moisture SCS PID/FID Graphic Content Liquid Each Major Unit Limit P 200 RQD/ Well Log Б SILTY SAND (SM), reddish yellow (7.5YR 7/8), pink (7.5YR 7/4), white (7.5YR 8/1), and dark brown (7.5YR 3/2), fine to medium sand, with silt, massive. -41 100/2.5 2.5 W S13 (Sandstone Bedrock) (SS2) (Ancell Group, St. Peter Formation, Tonti Member) 42 43 SS2 44 45 46 E 47 SILTY SAND (SM), white (10YR 8/1) and light gray (10YR7/1), mostly fine to medium sand with silt and clay seams, clay is green (glauconite). (Weathered 48 SS3 Sandstone Bedrock) (SS3) (Ancell Group, St. Peter Formation, Readstown 49 Member) 100/6" S14 6 W Driller noted End of boring at 49' bgs in sandstone. Constructed different drilling at 47' bgs. Likely transition from the Tonti to the well from 46.3' bgs. Readstown Member.

ť

	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		E. Well Name MW-119
Facility License, Permit or Monitoring No.	Local Grid Origin (estimation	Long	on  Wis. Unique Well No. DNR Well ID No. WD861
Facility ID	St. Plane 378018.99 ft. N	5.8.8	
Type of Well Well Code/ MW	Section Location of Waste/Sou <u>SE</u> 1/4 of <u>SE</u> 1/4 of Sec. Location of Well Relative to <u>V</u>	<u>25, T. 7 N, R.</u> 10	Well Installed By: Name (first, last) and Firm Scott Klumb
Distance from Waste/ Enf. Stds.	u Upgradient s	Sidegradient	Soils & Engineering Services, Inc.
Sourceft.   Apply $X$ A. Protective pipe, top elevation	d Downgradient n 921.69 ft. MSL	Not Known   	Dock? X Yes No
B. Well casing, top elevation	921.70 ft. MSL	2. Protective a. Inside d	4
C. Land surface elevation	919.3 ft. MSL	b. Length	Ē
	SL or32 ft.	c. Materia	
12. USC <u>S classification of soil near scree</u>		d. Additio	mal protection? Other
	sw 🔲 sp 🔲 🔪 🚺		describe:
SM SC ML MH Bedrock X		3. Surface se	cal: Bentonite X 30 Concrete 01
	Yes No		Concrete 0 1 Other
	otary 5 0	4. Material l	between well casing and protective pipe:
Hollow Stem A	uger 🔀 4 1 Dither	Filter Sa	nd Bentonite 30
		5. Annular s	
15. Drilling fiuid used: Water 0 2	Air 0 1		bs/gal mud weight Bentonite-sand slurry 35
Drilling Mud $0 3$	None 99		bs/gal mud weight Bentonite slurry 31
16. Drilling additives used?	Yes 🗙 No		Bentonite Bentonite-cement grout 50 6.6 Ft <sup>3</sup> volume added for any of the above
Describe N/A		2003 W.	nstalled: Tremie 01
17. Source of water (attach analysis, if req	uired):		Tremie pumped 0 2
N/A		6. Bentonite	Gravity X 08 seal: a. Bentonite granules 33
		ъ. 🗌 /4	in. $X 3/8$ in. $1/2$ in. Bentonite chips $X 32$
E. Bentonite seal, top $\_$ $\_$ $919.3$ ft. M	SL or $\_\_\_\_^0$ ft.	c	Other
F. Fine sand, top887.3 ft. M	SL or $\_$ $\_$ $32 ft.$	COM /	material: Manufacturer, product name & mesh size int #15
G. Filter pack, top885.3 ft. M	SL or $\_$ $\_$ $\frac{34}{10}$ ft.	b. Volum	
H. Screen joint, top 883.3 ft. M	SL or36 ft.	- 🛛 🖊 a	k material: Manufacturer, product name & mesh size Red Flint #40
I. Well bottom $\frac{873.0}{\text{ft. M}}$	SL or46.3 ft.	b. Volun 9. Well casi	ng: Flush threaded PVC schedule 40 🔀 23
J. Filter pack, bottom $\frac{871.3}{1.3}$ ft. M	SL or48ft.		Flush threaded PVC schedule 80 2 4 Other
K. Borehole, bottom 871.3 ft. M	SL or $48$ ft.	10. Screen m a. Screen	type: Factory cut 🗵 11
<b>L.</b> Borehole, diameter $-\frac{6.0}{-}$ in.		×	Continuous slot 0 1 Other 0
M. O.D. well casing $-\frac{2.38}{1000}$ in.		b. Manuf c. Slot si	ze: $0. \_ 01$ in.
N. I.D. well casing $-\frac{2.07}{}$ in.		And a state of the	i length:    10 ft.       naterial (below filter pack):     None X 14
I hereby certify that the information on thi	s form is true and correct to the	hest of my knowledge	Other
Signature	Firm	ouse of my knowledge.	
Wall 1	SCS EN	NGINEERS. 2830 Dairv	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.

State of Wisconsin Department of Natural Resources

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

Remediation/Red		Other	and a set of the	
Facility/Project Name	County Name		Well Name	
Dane County Landfill No. 3 (Proposed)		Dane		MW-119
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Nu		DNR Well ID Number
	13	WD86		
surged with bailer and pumped       X         surged with block and bailed       X         surged with block and pumped       X         surged with block, bailed and pumped       X         surged with block, bailed and pumped       X         compressed air       X         bailed only       X         pumped only       X         pumped slowly       X         Other       X         3. Time spent developing well	cs $\square$ No         41         61         42         62         70         20         10         51         50 <u>60</u> min.         3.6       ft.         07       in.         .0       gal.         3.0       gal.         0.0       gal.	well casing) Date Time 12. Sediment in well bottom 13. Water clarity Fill in if drilling fluid	a. $37$ b. $02/0$ m m d d c. $9:30$ -6 Clear 1 Turbid $11$ (Describe) light brown no odor s were used a	5       Turbid 🗵 2.5 (Describe)         light brown no odor         med well is at solid waste facility:        mg/1      4,500       0 mg/1        mg/1      7 mg/1
10. Analysis performed on water added? Y (If yes, attach results)	es 🗙 No	First Name: Ethan		Last Name: Schaefer
(		Firm: SCS ENGIN	IEERS, 2830	) Dairy Drive, Madison, WI 53718
17. Additional comments on development:				

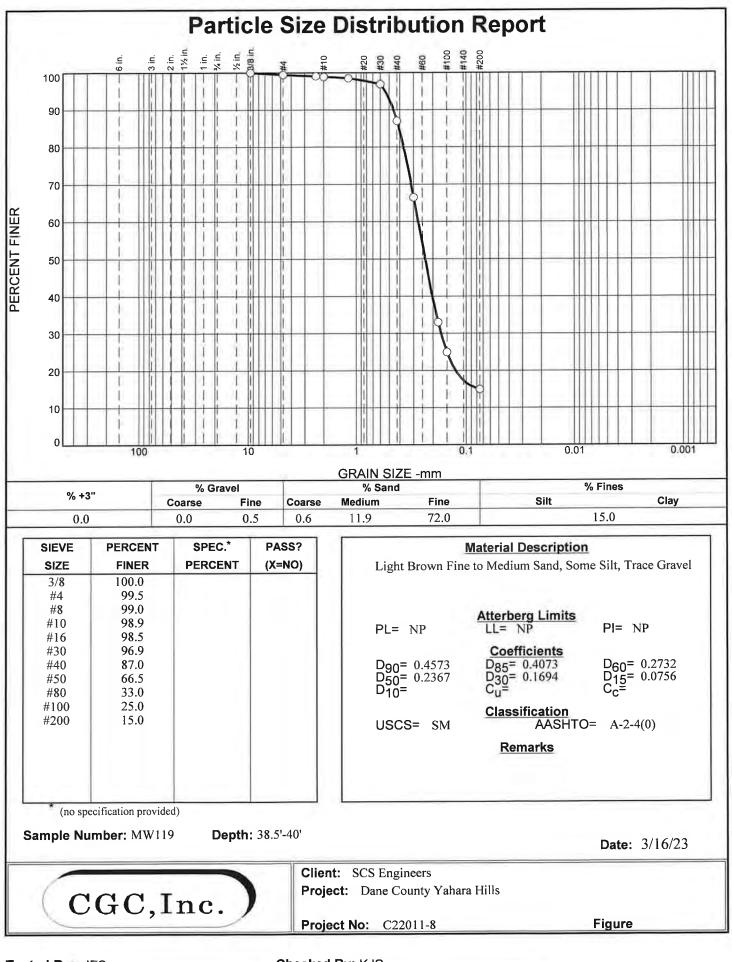
- Pumped dry 3 times with Grundfoss for total of: 8 gallons removed by pumping

- 10 well volumes: 100 gallons

- Sample at 1035

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

ST-119

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

Facilit	v/Proied	ct Nam	e			Licens	e/Pe	rmit/N	Monito	ring Nu	mber		Boring	Numbe		Page	1 of 1
				No. 3 (Proposed)	SCS#: 25222268.00	Licens		111101	viointo	ing i te				ST-1			
				f crew chief (first, last) an		Date I	Drilliı	ng Sta	arted		Dat	e Drilli				Drill	ing Method
Soil		ingine		Services, Inc.		3/8/2023					3/8/2023				SS		
WI Ur	ique W	ell No.		DNR Well ID No.	Common Well Name	Final S	Static		er Leve	el		e Elevat			Bo		Diameter
Least	<u>C</u>	 										19.3 F				4	.3"
Local State		rigin		stimated:  ) or Bor ,019 N, 2,169,756			Lat .		o	<u> </u>	"	Local C			r		East 🔲 E
SE		of SI			T 7 N, R 10 E		mg.		0	,	"		гее	$\square$ N $\square$ S			Feet 🗌 E
Facilit		01 23		County	1, 1,1110 2	County		e (	Civil To	own/Ci	ty/ or V	Village					
				Dane		13			City o	of Ma	dison						
San	nple												Soil	Prope	erties		
	in) Ś	s	et	Soil/R	ock Description												
. o	Att. ed (	Blow Counts	Depth In Feet	And Ge	ologic Origin For							ion	b		v		nts
Typ	gth. ovei	Ŭ 8	th Iı	Eac	h Major Unit			C S	Graphic Log	l gran	/FIL	trat	stur tent	it it	ticit	00	RQD/ Comments
Number and Type	Length Att. & Recovered (in)	Blor	Dep					υs	Grap Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comm
			<u></u>	Blind drilled to 0.5' bgs	5.												
S1	17		-1	(See MW-119 log for 1 LEAN CLAY, dark ye								2.25	М				Shelby tube
				mostly silt with clay, so	ome fine sand, soft, co	4/4), hesive,		CL									sample from 0.5 to 3 feet bgs.
			-2	uniform, massive, trace	e roots. (Loess)		+		[]]]]]	1							
				At 0.5' to 2.5', LEAN C	CLAY (CL)												
				% g-s-si-cl = 0-6-49-45 LL=48, PI=24	)												
				End of boring at 2' bgs	in loess.		-										
				Abandoned with bento	nite chips.												

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

Signature	aft	Adam Watson	<ul> <li><sup>n</sup> SCS Engineers</li> <li>2830 Dairy Drive, Madison, WI 53718</li> </ul>

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.

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

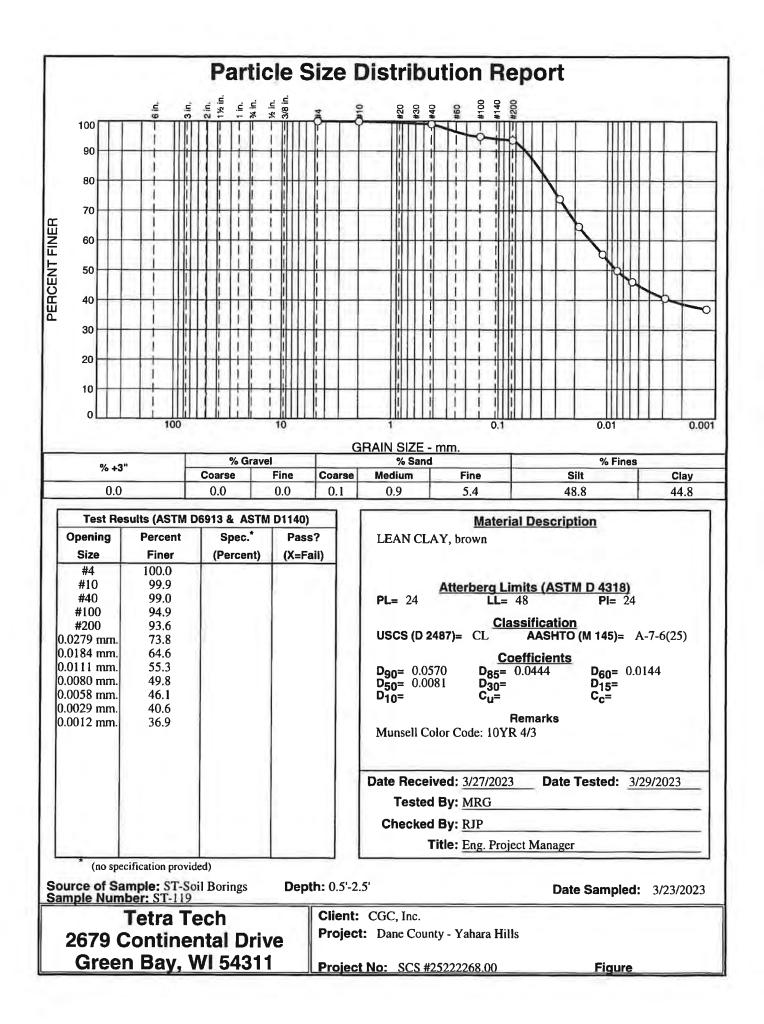
#### Well / Drillhole / Borehole Filling & Sealing Report Page 1 of 2

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 an	nd Seal	D	rinking Water		Watershed/W	Vastewater	Remedia	ation/Redevelopment				
		XW	/aste Managemer	nt 🗌	Other:							
1. Well Location Information				2. Facility	/ Owner Inf	formation						
County WI Unique Removed		Hicap #		Facility Name								
Dane	vven	S	ST-119	Dane County Landfill No.3 (Proposed) Facility ID (FID or PWS)								
Latitude / Longitude (see instructions)	Latitude / Longitude (see instructions)   Format Code   Method Code											
,	GPS008	License/Permit/Monitoring #										
	SCR002	License/Per	mit/Wonitoring	1#		р.						
1/4 / 1/4 SE S	ection Tow	nship	Range 🗙 E	Original Wel								
or Gov't Lot #	25	7 N	10 🗍 w			tment of Waste a	nd Rene	wables				
Well Street Address				Present Wel								
7101 US Highway 12 & 18						ment of Waste a	nd Renev	wables				
Well City, Village or Town			ZIP Code		ess of Preser							
Madison, WI		537	18			Center Way		1710 0 1				
Subdivision Name		Lot #		City of Prese Madison	ent Owner		State WI	ZIP Code 53713				
·					inor Soro	en, Casing & Seal						
Reason for Removal from Service	WI Unique Wel	# of Re	placement Well	and the second se	piping remov			Yes No X N/A				
Temporary Borehole				Liner(s) re				Yes No XN/A				
3. Filled & Sealed Well / Drillho	ginal Construction				erforated?			Yes No XN/A				
Monitoring Well				Screen re			, L	Yes No XN/A				
Water Well		08/202		Casing le	ft in place?		Ē,	Yes No XN/A				
X Borehole / Drillhole ple	a Well Construct ease attach.	on Repo	ort is available,		ng cut off belo			Yes No X N/A				
Construction Type:					g material rise		N N					
X Drilled Driven (San	dpoint)	Dug	1		ial settle after			Yes X No N/A				
Other (specify):					, was hole ret			Yes 🗙 No 🗌 N/A				
Formation Type:						used, were they hydr n safe source?		Yes No N/A				
X Unconsolidated Formation	Bedro	ock		Required Me	ethod of Placin	ng Sealing Material						
Total Well Depth From Ground Surfac	e (ft.) Casing	Diameter	r (in.)	Condu	ctor Pipe-Gra	vity 🗌 Conductor F	Pipe-Pump	ed				
2.5	NA		*	X Screen	ned & Poured nite Chips)	Other (Expl	ain):					
Lower Drillhole Diameter (in.)		Depth (ft	.)	Sealing Mate								
4.3	NA				ement Grout		Bentonite	Grout				
				Sand-0	Cement (Cond	crete) Grout	Bentonite	Chips				
Was well annular space grouted?	Yes	× No	Unknown	For Monitori	ng Wells and	Monitoring Well Bore	holes Only	¢				
If yes, to what depth (feet)?	Depth to Wate	er (feet)		Bentor	nite Chips	Bentor	nite - Ceme	ant Grout				
NA	~38			Granu	ar Bentonite	Bentor	nite - Sand	Slurry				
5. Material Used to Fill Well / D	rillhole			From (ft.)	To (ft.)	No. Yards, Sacks S Volume (circle		Mix Ratio or Mud Weight				
3/8" Bentonite Chips				Surface	2.5	7 lbs		dry mix				
6. Comments		Real Providence										
Shelby Tube ST-119												

7. Supervision of Work **DNR Use Only** Name of Person or Firm Doing Filling & Sealing Date of Filling & Sealing or Verification License # Date Received Noted By (mm/dd/yyyy) 03/08/2023 Soils & Engineering Services, Inc Street or Route Telephone Number Comments 1102 Stewart St. 608)274-7600 ( City Signature of Person Doing Work **ZIP** Code Date Signed State Madison 03/08/2023 WI 53713



#### HYDRAULIC CONDUCTIVITY DETERMINATION Rising tailwater method in a triaxial permeameter ASTM D 5084, Method C (EM-1110-2-1906 7)

			Green Bay, WI. 54311
Project No. :	SCS#25222268.00		
Client:	CGC, Inc.		
Project:	Dane Co. Yahara Hills		
Sampled Date:	3/23/2023	Date Received:	3/27/2023
	SUMMAR	Y OF TEST RESULTS	
Sample No.:	ST-119		
Location:	S-1 @ 0.5'-2.5'		
Soil Classification:	LEAN CLAY, brown (C	CL)	
Munsell Color Code:	10YR 4/3		
	INITIAL		<u>FINAL</u>
DRY UNIT WEIGHT (pcf)	99.5		99.5
WATER CONTENT (%)	24.6		26.4
DIAMETER (cm)	7.08		7.08
LENGTH (cm)	7.96		7.96
HYDRAULIC GRADIENT (MAXIMUM)			11.6
PERCENT SATURATION	96.428074	4	103.06634
HYDRAULIC CONDUCTIVITY k (cm/sec)			1.96E-08

Reviewed By: *Pobest & Pocee* Date Reviewed: 4/7/23

Tetra Tech 2679 Continental Dr.

Tested By: Robert J Peeters

MW-120

Route To:

Watershed/Wastewater Remediation/Redevelopment  $\Box$ Other

Waste Management

SOIL BORING LOG INFORMATION Form 4400-122

Rev. 7-98

															Page	1 of 2
-	y/Projec					License/	Permit	/Monit	oring N	umber			Numbe			
				No. 3 (Proposed)	SCS#: 25222268.00						~ ~ ~		MW-	-120		
-		•	Name of	crew chief (first, last) an	nd Firm	Date Drilling Started Date I				te Drilli	ng Con	npleted			ing Method	
	tt Klu		•				1/20	Vana	,			1/20/2	0000		HSA, 4.25" IE	
	ique W			Services, Inc. DNR Well ID No.	Common Well Name	Final Sta		)/2023		Samfoo		1/20/2	2023	D	Borehole Diameter	
WIUn	-	)844	•	DINK Well ID No.	MW-120			et MS			rface Elevation B 907.2 Feet MSL					.3"
Local	Local Grid Origin (estimated: ) or Boring Location										Local C				0	.5
State		19111		642 N, 2,167,842		La	.t	°	<u>'</u>	"	Local C					Feet 🗌 E
NW		of N			t 7 n, r 10 e	Long	<u> </u>	0	'	"		1 001				
Facilit				County		County Co		Civil	Fown/C	ity/ or	Village					
				Dane		13		City	of Ma	adisor	ı					
San	nple											Soil	Prope	erties		
	ж п)	10	5	Soil/Re	ock Description											
0	ktt. ¿ sd (i	unts	Fee		ologic Origin For						U Ho					ts
ber Jype	th A vere	ç	h In		h Major Unit		CS	hic	cam	Œ	lard trati	ent	E E	(icity		men
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	2			S	Graphic Loo	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
<u>a Z</u>	L K	В			· 1 1 (10X/D 2	(2)				P	PN	20		P 1	Р	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
			F F	SILT (ML), very dark g organic rich, with roots	grayish brown (104 K 3 . (Topsoil)	72), [	ML									
S1	24	24 42	-1	LEAN CLAY (CL), red	ddish brown (5YR 4/3)	, mostly	CL				1.0	M				
		72	EF	silt with clay, some fine massive, trace roots. (L	e sand, soft, cohesive, u oess)	iniform,										
			$E^2$	SILTY SAND, reddish	brown (5YR 4/3), mos	slty fine										
			⊧, I	sand with medium to co to coarse gravel (mostly	barse sand and some cla	ay, fine										
				(Till) (Holy Hill Format	tion, Horicon Member)	1351 ve.										
			E_4	Same as above but strop	ng brown (7.5YR 5/6).											
S2	18	2 1 2	ΕΊΙ									W				Depth to water at ~4.7' bgs.
		2	E_5													~4. / bgs.
			E I													
			-6													
	10	97	F													
S3	18	97 6	-7									W				
			E I													
			E-8	Kh = 2.37E-04  cm/s			SM		18							
			E <sub>9</sub>													
S4	14	68 9	E' I								0.75	W				
		9									1.0					
			E													
_			E-11													
			E I	At 11' to 12.5', SILTY % g-s-si-cl = 15-59-15-					18							
S5	18	57 8	-12								1.0	W				
			F													
			-13						日日							
			Εl							:						
S6	18	33	E <sup>-14</sup>									w				
		1														
I hereb	v certif	v that		mation on this form is tru	ue and correct to the be	st of my br	nowled	oe		1	1	1	I	1		I
1 110100	., conti	Junit	and million		at and contest to the be	st of my Ki		50.								

Signature	at	Firm Adam Watson	<sup>1</sup> 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.

Boring	g Numl	ber	MW	V-120 u	Jse only as an a	ttachment to	Form 4400-12	22.								Page	2 of 2
San													Soil	Prop	erties		
	Length Att. & Recovered (in)	ats	eet		Soil/Rock Des	-											
er ype	h Att 'ered	Cour	InF		And Geologic O	•		$\mathbf{v}$	.e	am	Э	ard	nt	-	city		nents
Number and Type	engt	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	щ			(SM) atrona hr	our (7 5VD	5/6)	D			Р	PS	20		P I	4	<u> 2</u> 2
			-16	SILTY SAND mostly fine san	d with medium	to coarse sar	nd and	SM									
			10	some clay, fine uniform, massi	ve. (Till) (Holy ]	Hill Formati	on, Horicon										
				Member) End of boring a	t 16' bgs in till.	Constructed	well from										
				15.3' bgs.													

	Watershed/Wastewater	Waste Managemen X	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name	Local Grid Location of Well		Well Name
Dane County Landfill Site No. 3 (Proposed)	ft. <mark></mark>	<u>_N.</u> _Sft. <u>_</u> ₩	
Facility License, Permit or Monitoring No.		ated: [_]) or Well Location [ Long	
Facility ID	St. Plane 377642.07 ft. N	f, <u>2167842.43</u> ft. <b>E. S/C</b> /	
Type of Well	Section Location of Waste/Sou		E. Well Installed By: Name (first, last) and Firm
Well Code <u>11</u> /MW	<u>NW1/4 of NE 1/4 of Sec.</u>		Scott Klumb
Distance from Waste/ Enf. Stds.	Location of Well Relative to W u Upgradient s	Vaste/Source Gov. Lot Number Sidegradient	
Sourceft. Apply	$d \square$ Downgradient n	Not Known	Soils & Engineering Services, Inc.
	919.94 ft. MSL	1. Cap and lock?	Yes No
B. Well casing, top elevation	909.91 ft. MSL	2. Protective cove a. Inside diame	
C. Land surface elevation	907.2 ft. MSL	b. Length:	<sup>5</sup> ft.
		c. Material:	Steel 🔀 04
D. Surface seal, bottom $\_$ $\_$ $\frac{903.2}{\text{ft. MS}}$	SL or 4 ft.		Other 🗌 🌉
12. USCS classification of soil near screen	n: \	d. Additional p	
	swl sp L_	If yes, desci	ibe:
	сь 🗌 сн 🔲 – 🦓	3. Surface scal:	Bentonite 🗙 30
Bedrock	🕅	5. Surface scal:	Concrete 01
13. Sicve analysis performed?		×	Other
	tary 50	4. Material betwe	en well casing and protective pipe:
Hollow Stem Au	ager 🔀 4 1		Bentonite 30
0	ther	Filter Sand	Other 🗶
		5. Annular space	
15. Drilling fiuid used: Water 0 2		bLbs/ga	l mud weight Bentonite-sand slurry 25
Drilling Mud $0 3$	None $\times 99$		l mud weight Bentonite slurry 🛄 31
16. Drilling additives used?	Yes 🗙 No		onite Bentonite-cement grout 50
		191	Ft <sup>3</sup> volume added for any of the above
Describe N/A		f. How install	
17. Source of water (attach analysis, if requ	uired):	88	Tremie pumped 0 2
N/A			Gravity 🗶 0 8 a. Bentonite granules 🗌 3 3
		6. Bentonite seal:	
E. Bentonite seal. top 907.2 ft, MS	SLor Oft.	b. []/4 in. [	
			Other
F. Fine sand, top $203.2$ ft. MS	SL or $\_\_\4ft$ .	Red Flint #	rial: Manufacturer, product name & mesh size
002 7		a	M
G. Filter pack, top $$ $\frac{902.7}{-}$ ft. MS	SL or $4.5$ ft.	b. Volume add	
002.26 1	SL or $\_$ $\_$ $5 ft.$	8. Filter pack ma	terial: Manufacturer, product name & mesh size
H. Screen joint, top $\underline{} \underline{} \underline{}$	L or II.	ah Volume add	$\frac{\text{Red Flint #40}}{1.5 \text{ ft}^3}$
I. Well bottom 891.9 ft. MS	SL or15.3 ft.	9. Well casing:	Flush threaded PVC schedule 40 🔀 23
			Flush threaded PVC schedule 80 24
J. Filter pack, bottom 891.2 ft. MS	SL or $\_$ $\_$ $^{16}$ ft.		Other 🗍 🛄
K. Borehole, bottom891.2 ft. MS	·· 160	10. Screen materia	
K. Borehole, bottomO91.2 ft. MS	iL or []	a. Screen type	
L. Borehole, diameter $-\frac{8.3}{-1}$ in.			
L. Borehole, diameter $   -$ in.		b. Manufactur	
M. O.D. well casing $-\frac{2.38}{1000}$ in.		c. Slot size:	$0. \_ 01 in.$
M. O.D. well casing $$ m.		d. Slotted leng	
N. I.D. well casing $-\frac{2.07}{}$ in.			ial (below filter pack): None X 14
		11, Ducktin mater	
I hereby certify that the information on this	form is true and correct to the	best of my knowledge.	
Signature	Firm	nan an an de anternet en	
att	SCS EN	NGINEERS, 2830 Dairy Driv	ve, 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

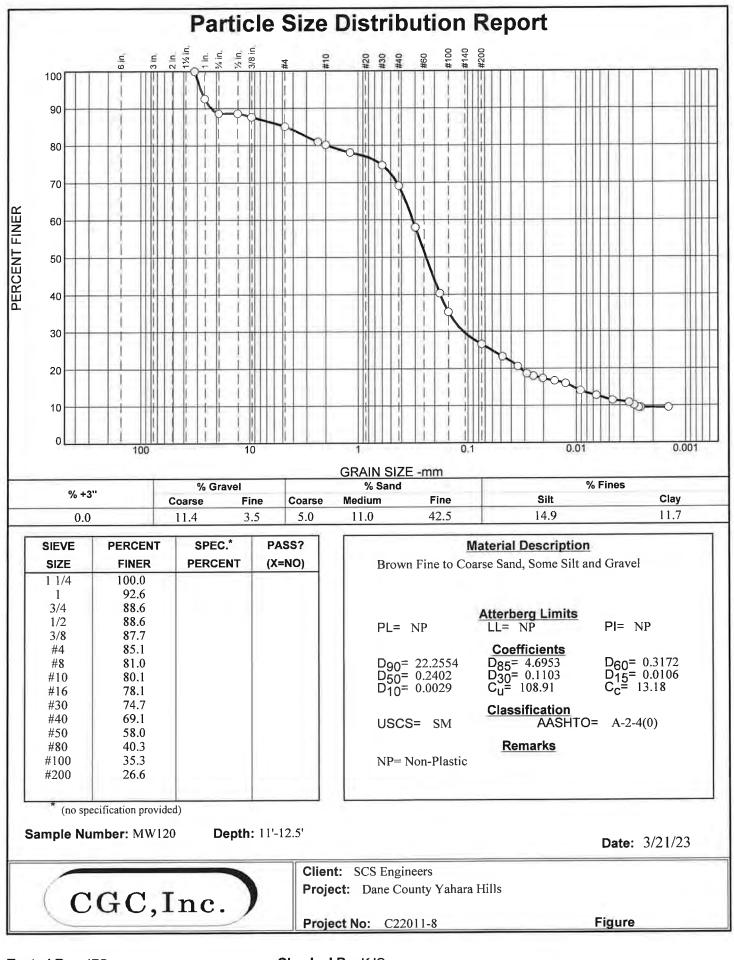
Route to: Watershed/Was	the state and states	Waste Management	$\boxtimes$		
Remediation/Re Facility/Project Name Dane County Landfill No. 3 (Proposed)	County Name	Other	Well Name	MW	-120
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well No. WD84	and the second sec	DNR Well ID	Number
<ul> <li>5. Inside diameter of well2</li> <li>6. Volume of water in filter pack and well casing</li> <li>7. Volume of water removed from well</li> </ul>	Yes $\square$ No 41 61 42 62 70 20 10 51 50 <u>125</u> min. <u>18</u> 0 ft. <u>07</u> in. <u>9</u> 7 gal. <u>50</u> 0 gal. <u>0</u> 0 gal.	well casing) Date	a. $_{-}$	<u>2023</u> y y y y y x a.m. p.m 0 inches 0 Cle 5 Tun (De  5 Cle 10 (De  10 (De  10 (De ) 0 (de ) 10 (de	·
10. Analysis performed on water added?	Yes 🗵 No	16. Well developed b First Name: Ethan	y: Name (first, la	st) and Firm Last Name: So	
17. Additional comments on development:					

- Surge/purge 30 min

Did not purge dry, purge 15 gallons
10 well volumes: 105.1 gallons
Surged and purged dry 3 times with Grunfoss for total of 35 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: <i>Chan Schaefer</i>
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

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MW-120A

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

Facilit	y/Projec	rt Nam	le le			License/	Permit/	Monito	ring N	lumber		Boring	Numb	er	Page	1 0	of 3
	-			lo. 3 (Proposed)	SCS#: 25222268.00	Licenser	l ernne	Ivionite	1115 1	unioer			MW-		A		
				f crew chief (first, last) and		Date Dri	lling St	arted		Da	te Drilli				Dril		ethod
	tt Klui																25" ID
Soil	s & E	ngine	ering S	Services, Inc.				2023				3/2/2	023				otary
WI Un	ique W		•	DNR Well ID No.	Common Well Name	Final Sta	itic Wa	ter Lev	el		e Elevat		ICI	В	orehole		
Local	WL Grid Or	0867 rigin	(es	timated:  ) or Bor	MW-120A						07.3 I				8.2	3" &	0
State		ıgın		643 N, 2,167,838		La	ıt	°	<u> </u>	"	Local C			r		Feet [	аГ
NW		of N		/4 of Section 36,	t 7 n, r 10 e	Long	g	°	'	"		1 000					
Facilit	y ID			County		County Co	ode				Village						
				Dane		13		City	of Ma	adison							
San	nple											Soil	Prope	erties			
	<b>&amp;</b> (in)	ts	g	Soil/R	ock Description												
ے و	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	And Ge	ologic Origin For						dtion	e		Y			nts
Tyr	gth ove	w C	th I	Eac	h Major Unit		CS	Graphic Log	ll	PID/FID	odar etra	istur	Liquid Limit	Plasticity Index	0		nme
Number and Type	Len Rec	Blo	Dep				U S	Grap Log	Well		Standard Penetration	Moisture Content	Liquic	Plastic Index	P 200	BOR	Comments
			-	Blind drilled to 18.5' b (See MW-120 log for 1	gs. ithology from 0' to 15'	has)											
			-1	(See MW-120 log for 1 Cored hole from 19.5'	to $50.5'$ bgs on $2/7/202$	23.											
			E	Reamed hole to 6" diar 3/2/2023 and set well 1	MW-120A to 49.3' bgs	1 5.											
			-2		U												
			Ę,														
			=3														
			-4														
			5														
			$E^{-6}$														
			E_7														
			E'I														
			-8														
			E														
			<b>-</b> 9														
			E 10														
			-10														
			-11														
			-12														
			-13 E														
			-14														
			E_15														

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

Signature JMRn Jackie Rennebohm, PG	Firm	SCS Engineers 2830 Dairy Drive, Madison, WI 53718
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Borin	g Numb	ber	MW	V-120A Use only as an attachment to Form 4400-1	22.								Page	2 of 3
	nple									Soil	Prop	erties		
	(ii) &	s	et	Soil/Rock Description										
. o	Att. ed (	Blow Counts	Depth In Feet	And Geologic Origin For					ion 1	0		~		nts
Typ	gth . over	č	th Ir	Each Major Unit	CS	phic	1 464	FIL	dard	sture	ii d	Plasticity Index	0	)/ Imei
Number and Type	Length Att. & Recovered (in)	Blor	Dep		U S	Graphic Log	Well	PID/FID	Standard Penetration	Moisture Content	Liquid	Plastic Index	P 200	RQD/ Comments
			16	Blind drilled to 18.5' bgs. (See MW-120 log for lithology from 0' to 15' bgs.) Cored hole from 19.5' to 50.5' bgs on 2/7/2023. Reamed hole to 6" diameter with air rotary on 3/2/2023 and set well MW-120A to 49.3' bgs.										
			- 10	SILTY SAND WITH GRAVEL (SM), brownish	SM									
S1	2 <sup>11</sup>	/2" 60/<	⊑_19 ∰"	yellow (10YR 6/8), fine to medium grained, with fine to coarse gravel (mostly dolomite), with green	SIM									
			-20	(glauconite) silt. (Weathered Dolomite) kedrock) (Prairie du Chien Group, Oneota Formation)										
				DOLOMITE (DL4), light gray (10YR 7/1) and yellow										
			-21	(10YR 7/6), massive to planar bedded, sandy, with chert, trace glauconite, round to oval vugs, and										
			E-22	dendrites. (Prairie du Chien Group, Oneota										
Run	41.5			Formation)										FF=1.36/ft
1			-23											Percent Recovery=73.5%
			Ē											RQD=32.5%, poor Bit drop at
			-24											21' bgs.
			-25				4							
-														
			26 											
			-27	From 26.5' to 27.5' bgs, massive with abundant dendrites and no sand.										
Run 2	55		-28 											FF=0.87/ft Percent
			-29											Recovery=89% RQD=48%, poor
					DL4									
			<u>-30</u>			<b></b>	2							
			-31											
			E			$\square$								
			-32											
			-33											
			-											
			-34											
Run 3	82													FF=1.17/ft Percent
														Recovery=85% RQD=63.5%,
			-36				_							fair
			37 E			<b></b>								
			-38			<u> </u>								
$\vdash$			E			$\vdash$								
			-39					· . · . ·						
			-40					÷						
	. 1		, 10			•			1			1		i.

Borin	g Numb	ber	MW	V-120A Use of	only as an attachment to Fo	orm 4400-1	22.								Page	3 of 3
San	nple											Soil	Prope	rties		
	Length Att. & Recovered (in)	ts	set	Soi	l/Rock Description											
r Se	Att. red	oun	n Fe	And	Geologic Origin For		S	0	я	Ω	d tion	8 <u>-</u>		ty		ents
Number and Type	ngth sove	Blow Counts	Depth In Feet	]	Each Major Unit		C	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	8	RQD/ Comments
Nu	Ler Rec	Blo	Del				U S	Grap Log	Well Diagr	PIL	Sta Per	Mo Coi	Liquid Limit	Plastic Index	P 200	RQ Coi
Run 4	83		-41 -42 -43	(10YR 7/6), massiv chert, trace glaucon	, light gray (10YR 7/1) and e to planar bedded, sandy, ite, round to oval vugs, and lu Chien Group, Oneota	with										FF=0.72/ft Percent Recovery=99% RQD=41%, poor
			-44 45 46	Kh = 1.77E-04 cm/	s		DL4									
Run 5	59		47													FF=0.81/ft Percent Recovery=98% RQD=61%, fair
				End of boring at 50 Reamed hole to 6" of constructed well from the second secon												

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	$\mathbb{N}$ . $\mathbb{S}$ . $\mathbb{I}$ $\mathbb{S}$ . $\mathbb{I}$ $\mathbb{S}$ . $\mathbb{I}$ $\mathbb{S}$ . $\mathbb{I}$	Well Name MW-120A
Facility License, Permit or Monitoring N	o. Local Grid Origin (estim	ated: []) or Well Location []	Wis. Unique Well No. DNR Well ID No. WD867
Facility ID	St. Plane 377643.38 ft. N	I, 2167837.94 ft. E. S/C/N	Date Well Installed 03 / 02 / 2023 m m d d y y y y
Type of Well Well Code 12 / PZ	Section Location of Waste/Sou NW1/4 ofNE 1/4 of Sec,	urce <u>36</u> , <b>T</b> . <u>7</u> N, R. <u>10</u> ₩	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	
Sourceft. Apply $\searrow$	$d \square$ Downgradient n	Not Known	Soils & Engineering Services, Inc.
A. Protective pipe, top elevation	909.78 ft. MSL	1. Cap and lock?	Yes No
B. Well casing, top elevation	909.81 ft. MSL	2. Protective cover a. Inside diamete	/
C. Land surface elevation	907.3 ft. MSL	b. Length:	<u>5</u> ft.
	MSL or 39 ft.	c. Material:	Steel 🔀 04
12. USC <u>S classification of soil near scr</u>	22-37/20.34 J	d. Additional pro	Other ∐
GP GM GC GW	SW SP	If yes, describ	10.000
	] СL 🗌 СН 🔲 🛛 🕌	3. Surface scal:	Bentonite 🔀 30
Bedrock X 13. Sieve analysis performed?		S, Bullace seal.	$Concrete \square 01$
	_Yes XNo Rotary X50	A Material between	• Well casing and protective pipe:
Hollow Stem			Bentonite $\Box$ 30
	Other	Filter Sand	Other 🔀
15. Drilling fiuid used: Water 0 2		5. Annular space se	al: a. Granular/Chipped Bentonite 🔀 3 3
15. Drilling fiuid used: Water 0 2 Drilling Mud 0 3	$\begin{array}{c c} \text{Air} & 0 \\ \hline & 0 \\ \text{None} & 9 \\ \end{array}$		nud weight Bentonite-sand slurry 35 nud weight Bentonite slurry 31
			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
Deseribe N/A		f. How installed	
17. Source of water (attach analysis, if r	equired):		Tremie pumped 🔀 0 2
N/A		6. Bentonite seal:	Gravity 08 a. Bentonite granules 33
		b. 🔀 /4 in. 🔀	3/8 in. $1/2$ in. Bentonite chips $32$
E. Bentonite seal, top $2 - \frac{907.3}{2}$ ft. 1	MSL or $\_\_\_\_^0$ ft.	c. <u>Pell plug. Ber</u>	tonite pellets Other
F. Fine sand, top868.3 ft. 1	WSL or <u>39</u> ft.	809	al: Manufacturer, product name & mesh size
6 Elter 865.3 ft 1	MSL or 42 ft.	a. Red Flint #15	
		b. Volume adde 8. Filter pack mater	tial: Manufacturer, product name & mesh size
H. Screen joint, top 863.3 ft. ]	MSL or44 ft.	- 🗍 🖊 a	Red Flint #40
I. Well bottom 858.0 ft. ]	MSL or49.3 ft.	b. Volume adde 9. Well casing:	d <u>1.4</u> ft <sup>3</sup> Flush threaded PVC schedule 40 $\times$ 23
			Flush threaded PVC schedule $80 \square 24$
J. Filter pack, bottom 856.8 ft. ]	MSL or $50.5$ ft.		Other
K. Borehole, bottom 856.8 ft. ]	MSL or $\_$ $\_$ $50.5$ ft.	10. Screen material: a. Screen type:	Sch. 40 PVC Factory cut 🔀 11
			Continuous slot 🔲 01
<b>L.</b> Borehole, diameter $   -$ in	1.		Other Campbell (Monoflex)
M. O.D. well casing $-2.38$ in	ι.	b. Manufacturer c. Slot size:	0. 0.1 in.
N. I.D. well casing $2.07$ in		d. Slotted length	
N. I.D. well casing $2.07$ in	1.	11. Backfill material	l (below filter pack): None 🔀 14
I hereby certify that the information on t	his form is true and correct to the	best of my knowledge.	
Signature	Firm		Madison WI 52718
		NGINEERS, 2830 Dairy Drive	, Mauisuli, WI 33710

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 Management 🔀
Remediation/Redevelop ment	 Other
Facility/Project Name County Name	Well Name
Dane County Landfill No. 3 (Proposed)	Dane MW-120A
Facility License, Permit or Monitoring Number County Code	Wis. Unique Well Number DNR Well ID Number
13	<u></u>
1. Can this well be purged dry?       X Yes       No         2. Well development method       surged with bailer and bailed       X 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       0	11. Depth to Water (from top of well casing)Before Development $a = -\frac{5}{-} - \frac{61}{61}$ ft.After Development 
3. Time spent developing well82 min.	I.S. water clarityClearIIITurbid $\boxtimes 1$ 15Turbid $\boxtimes 2$ 5(Describe)(Describe)(Describe)
4. Depth of well (from top of well casisng) $- 52.6$ ft.	tan tan tan no odor
5. Inside diameter of well $-\frac{2}{2} \cdot \frac{07}{2}$ in.	
<ul> <li>6. Volume of water in filter pack and well casing1 7. Volume of water removed from well1 6.0 gal.</li> </ul>	Fill in if drilling fluids were used and well is at solid waste facility:
	14. Total suspended mg/l 2,160_0 mg/l
8. Volume of water added (if any) $\underline{0}$ $\underline{0}$ $\underline{0}$ gal.	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 (If yes, attach results)	First Name: Bri Last Name: Salome
(11 yes, allacit itsuits)	Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718
17. Additional comments on development:	
<ul> <li>Surge/purge 30 minutes, DTW 47.8ft, purged 10 gallons, went</li> <li>Purged dry 3 times w/ 10 minute recharge in between purges,</li> </ul>	

- 48.6ft after first purge, after 10 minute recovery break 43.8, recovered 0.48 ft/min

- Sampled at 1120

- 1 well volume 11.7 gal; 10 well volumes 117gal

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: Bitmenut
Street: 1919 Alliant Energy Center Way	Print Name: Brianna 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.

B-121C

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						License/	Permit/	Monito	ring N	umber		Boring					
				No. 3 (Proposed) f crew chief (first, last) a	SCS#: 25222268.00	Date Dri	Ilin ~ C	orted			te Drill		B-12		D11	ing Method	
-		-	Ivame of	crew chief (first, last) a	na rirm	Date Dri	ning 5	arted		Da	ue Driii	ing Con	npieted			-	
Scou	t Klu s & E	noine	ering S	Services, Inc.			2/7/	2023				2/7/2	023		HSA 4.25" ID & HQ Core		
WI Uni	que W	ell No		DNR Well ID No.	Common Well Name	Final Static Water Level Surface Eleva									Diameter		
										9	903.6				8.3'	' & 3.8"	
Local C		rigin		timated:  ) or Bor		I.		0	,	"	Local (	Grid Lo	cation				
State P				615 N, 2,168,256		La			,			Feet	: 🗌 N		]	Feet 🗌 E	
NW Facility		of N	E 1.	/4 of Section 36, County	т7 N, R 10 е	Long County Co		Civil T			Village				□ W		
гасшиу	Ш			Dane		13	de			adison	•						
Sam	nla			Daile		15						Soil	Prop	ortios			
	(			C - 11/D	- I Description												
	Length Att. & Recovered (in)	nts	Depth In Feet		lock Description											s	
er Vpe	h At erec	Blow Counts	InI		eologic Origin For		s	ю.	5		Standard Penetration	nte	_	ity		RQD/ Comments	
Number and Type	engt	MO	epth	Eac	ch Major Unit		SC	Graphic Log	Well Diagram	PID/FID	ands	Moisture Content	Liquid Limit	Plasticity Index	P 200	D/D/	
a Ż	Ľ.	Bl	_ Ă				Þ	Ъĭ	≥ ĉ		Pe St	ΣŬ	EE	PI In	- d	<u> </u>	
			Ē	Blind drilled to 12.5' b (See MW-121 log for	ogs. lithology from 0' to 15' l	bgs.)											
			-1														
			E,														
			$\begin{bmatrix} -2 \\ \end{bmatrix}$														
			-3														
			Ē														
			-4														
			E														
			-5														
			Ē														
			<b>–</b> 6														
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			E <sup>-10</sup>														
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			E														
			-12														
Н			È	DOLOMITE (DL4) h	rownish yellow (10YR	6/6) and		-	1								
			-13	light brownish gray (1	0YR 6/2), sandy, massi	ive to		Ľ,	1								
			E,	chert, and dendrites.	ound, oval and elongated	a vugs,	DL4	$\vdash$	-								
			-14 	(Prairie du Chien Gro	up, Oneota Formation)				1								
			E_15														

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

Signature (JMAnform Jackie Rennebohm, PG	G Firm SCS Engineers 2830 Dairy Drive, Madison, WI 53718	
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Borin	g Numb	er	<b>B-1</b>	Use only as an attachment to Form 44(	00-122.								Page	2 of 3
Sample									<u> </u>	Soil	Prop	erties		
	(ii) &	ts	gt	Soil/Rock Description										
c r	Att. red	uno	n Fe	And Geologic Origin For					tion	e		LZ .		ints
Tyj	igth	Blow Counts	Depth In Feet	Each Major Unit	CS	Graphic Log	Well Diagram	PID/FID	ndar etra	istur iteni	Liquid	stici ex	8	D/
Number and Type	Length Att. & Recovered (in)	Blo	Dep		υs	Grap Log	Well Diagr	PIC	Standard Penetration	Moisture Content	Lin	Plasticity Index	P 200	RQD/ Comments
Run 1	27		16 17 18	DOLOMITE (DL4), brownish yellow (10YR 6/6) and light brownish gray (10YR 6/2), sandy, massive to planar bedded, with round, oval and elongated vugs, chert, and dendrites. (Prairie du Chien Group, Oneota Formation)	1									FF=1.33/ft Percent Recovery=30% RQD=17%, very poor
Run 2	84		20 21 22 23 24 24 25 26 27 28 29		DL4									FF=0.86/ft Percent Recovery=87.5% RQD=59%, fair
Run 3	117		30 31 32 33 34 34 35 36 37 38 39 40											FF=0.51/ft Percent Recovery=96.7% RQD=63%, fair

Boring	g Numł	ber	B-1	21C	Use only a	s an attachr	ment to For	m 4400-1	22.								Page	3 of 3
-	Sample				, -									Soil	Prop			_
	. & (in)	its	eet			k Descriptio												
er /pe	n Att ered	Cour	In Fe			ogic Origin	For		$\mathbf{s}$	.c	E		urd ation	at e		ity		lents
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	200	RQD/ Comments
Z IE Run 4	<u>م</u> تر 29	В							D	57	≶ <u>∩</u>	P	N N	≥ U	ЦЦЦ	E E	Р	FF=2.1/ft
4			È 41	DOLOMIT	E (DL4), bro	wnish yellov	v (10YR 6/	6) and	DL4	<u> </u>								Percent Recovery=100% RQD=55%
			-41	light brown	ish gray (10Y ed, with rour	'R 6/2), san Id, oval and	dy, massive elongated v	e to vugs,										100 5570
				chert, and d (Prairie du	endrites. Chien Group,	Oneota For	mation)											
				End of bori	ng at 41' bgs borehole wit	in dolomite. h bentonite	orout and											
				bentonite ch	ips.		Brout una											
	i		I	I						I	I	I	I	I	T	1	1	I

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

#### 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 Seal					rinking Water		Watershed/W	Remediation/Redevelopment						
				XV	Vaste Managemer	ent Other:								
1. Well Location Inform	mation			14.252		2. Facility	/ Owner Int	formation						
County	WI Unique Removed		of	Hicap #		Facility Name								
Dane		F	3-121C	Dane County Landfill No.3 (Proposed)										
Latitude / Longitude (see instructions) Format Code Method Code							Facility ID (FID or PWS)							
Landad / Longhadd (000 h		N			GPS008									
					SCR002	License/Permit/Monitoring #								
1/ /1/		W		DDM		Original Wall Owner								
¼ / ¼ NW         ¼ NE         Section         Town					Range X E	Original Well Owner Dane County Department of Waste and Renewables								
or Gov't Lot #		36		7 N	10 🗌 w	Present Wel				wabies				
Well Street Address	0 40							ment of Waste	and Renev	wables				
7101 US Highway 12	& 18				ZID Code		ess of Preser							
Well City, Village or Town Madison, WI				537	ZIP Code	-		Center Way						
Subdivision Name				Lot #		City of Prese			State	State ZIP Code				
Subulvision Name						Madison			WI.	53713				
Reason for Removal from S	Service	WI Uni	aue We	# of Re	placement Well	4. Pump, Liner, Screen, Casing & Sealing Material								
Temporary Borehole			440 110			Pump and piping removed?								
3. Filled & Sealed Wel	I / Drillho	ole / Bo	rehole	Inform	nation	Liner(s) removed?								
Monitoring Well Original Construction							erforated?				N/A			
				07/202	23	Screen removed?								
Water Well					ort is available									
X Borehole / Drillhole please attach.							ng cut off belo	w surface?		Yes 🗌 No [	X N/A			
Construction Type:							g material ris		X		N/A			
X Drilled Driven (Sandpoint) Dug							ial settle after			Yes 🗙 No 🗌	N/A			
Other (specify):							, was hole ret			res 🗙 No	N/A			
Formation Type:								used, were they hyo n safe source?	Trated X	Yes No	N/A			
X Unconsolidated Form	ation		K Bedro	ock		Required Method of Placing Sealing Material								
Total Well Depth From Gro	ound Surfac	æ (ft.)	Casing	Diamete	r (in.)	Conductor Pipe-Gravity Conductor Pipe-Pumped								
41			NA				ned & Poured nite Chips)	Other (Exp	olain):					
Lower Drillhole Diameter (in	n.)		Casing	Depth (f	i.)	Sealing Mate								
8.3 to 3.0			NA			Neat C	ement Grout	Γ	Concrete					
Was well annular space gro	outed?		Yes	× No	Unknown	Sand-Cement (Concrete) Grout X Bentonite Chips								
If yes, to what depth (feet)? Depth to Water (feet)							For Monitoring Wells and Monitoring Well Boreholes Only:							
							nite Chips							
NA						Granul	ar Bentonite		onite - Sand		~			
5. Material Used to Fill Well / Drillhole							To (ft.)	No. Yards, Sacks Volume (circle		Mix Ratio Mud Weig				
3\8" Bentonite Chips						Surface	41	450 lbs	5	dry mix	(			
6. Comments														
Boring B-121C														
7. Supervision of Wor	·k								DNR Use	Only				

Name of Person or Firm Doing Filling & Sealing Date of Filling & Sealing or Verification Noted By License # Date Received Soils & Engineering, Inc. (mm/dd/yyyy) 02/07/2023 Street or Route **Telephone Number** Comments 1102 Stewart St 608)274-7600 City State ZIP Code Signature of Person Doing Work Date Signed Madison 02/07/2023 WI 53713 Qn.