

## 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


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

Page 1 of 1

Facility/Project Name Dane County Landfill No. 3 (Proposed) SCS#: 25222268.00			License/Permit/Monitoring Number		Boring Number ST-116	
Boring Drilled By: Name of crew chief (first, last) and Firm Scott Klumb Soils & Engineering Services, Inc.			Date Drilling Started 3/8/2023		Date Drilling Completed 3/8/2023	
Drilling Method SSA						
WI Unique Well No. --	DNR Well ID No. --	Common Well Name --	Final Static Water Level --	Surface Elevation 901.4 Feet MSL		Borehole Diameter 4.3"
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/> State Plane 378,468 N, 2,164,728 E S / C / N SE 1/4 of SE 1/4 of Section 25, T 7 N, R 10 E			Lat _____ ' _____ " _____ " Long _____ ' _____ " _____ "		Local Grid Location Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Dane	County Code 13	Civil Town/City/ or Village City of Madison		

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	19		1	Blind drilled to 1' bgs. (See MW-116 log for lithology from 0'-26' bgs.)					1.25	M				Shelby tube sampled from 1-3 feet bgs.
			2	LEAN CLAY, dark brown (10YR 3/3 to 4/4), moslty silt with clay, soft, cohesive, uniform, massive, trace roots with sand at bottom. (Loess)	CL									
			3	End of boring at 3' bgs in loess. Abandoned with bentonite chips.										

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

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

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal****Route to DNR Bureau:**☐ Drinking Water☐ Watershed/Wastewater☐ Remediation/Redevelopment☒ Waste Management☐ Other: \_\_\_\_\_**1. Well Location Information**

County <b>Dane</b>	WI Unique Well # of Removed Well _____	Hicap # <b>ST-116</b>
-----------------------	--	--------------------------

Latitude / Longitude (see instructions) _____ N _____ W	Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
---	--	--

1/4 1/4 SE or Gov't Lot #	1/4 SE	Section <b>25</b>	Township <b>7 N</b>	Range <b>10</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
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Well Street Address  
**7101 US Highway 12 & 18**Well City, Village or Town  
**Madison, WI**Subdivision Name  
\_\_\_\_\_Well ZIP Code  
**53718**Lot #  
\_\_\_\_\_Reason for Removal from Service  
**Temporary Borehole****3. Filled & Sealed Well / Drillhole / Borehole Information**☐ Monitoring Well☐ Water Well☒ Borehole / DrillholeWI Unique Well # of Replacement Well  
\_\_\_\_\_Original Construction Date (mm/dd/yyyy)  
**03/08/2023**If a Well Construction Report is available,  
please attach.  
\_\_\_\_\_

## Construction Type:

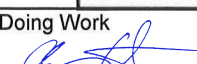
☒ Drilled☐ Driven (Sandpoint)☐ Dug☐ Other (specify): \_\_\_\_\_

## Formation Type:

☒ Unconsolidated Formation☐ BedrockTotal Well Depth From Ground Surface (ft.)  
**3**Casing Diameter (in.)  
**NA**Lower Drillhole Diameter (in.)  
**4.3**Casing Depth (ft.)  
**NA**Was well annular space grouted? ☐ Yes ☒ No ☐ UnknownIf yes, to what depth (feet)?  
**NA**Depth to Water (feet)  
**~20****5. Material Used to Fill Well / Drillhole****3/8" Bentonite Chips**

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<b>Surface</b>	<b>3</b>	<b>8 lbs</b>	<b>dry mix</b>

**6. Comments****Shelby Tube ST-116****7. Supervision of Work**

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



MW-117

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

Page 1 of 2

Facility/Project Name <b>Dane County Landfill No. 3 (Proposed) SCS#: 25222268.00</b>			License/Permit/Monitoring Number		Boring Number <b>MW-117</b>		
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Scott Klumb Soils &amp; Engineering Services, Inc.</b>			Date Drilling Started <b>1/20/2023</b>		Date Drilling Completed <b>1/20/2023</b>		
WI Unique Well No. <b>WD846</b>		DNR Well ID No. <b>--</b>		Common Well Name <b>MW-117</b>		Borehole Diameter <b>8.3"</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/> State Plane <b>377,913 N, 2,168,367 E S/C/N</b> <b>SE 1/4 of SE 1/4 of Section 25, T 7 N, R 10 E</b>			Final Static Water Level <b>899.3 Feet MSL</b>		Surface Elevation <b>899.8 Feet MSL</b>		
Lat <b>42° 15' 00" N</b> Long <b>89° 35' 00" W</b>			Local Grid Location Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W				
Facility ID		County <b>Dane</b>		County Code <b>13</b>		Civil Town/City/ or Village <b>City of Madison</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	24	4 3 3 3	1	SILT (ML), very dark grayish brown (10YR 3/2), organic rich, with roots. (Topsoil)	ML				1.0	W				Depth to water is at ~0.5' bgs.
			2	FAT CLAY (CH), light olive brown (2.5Y 5/6) with orange mottling, mostly silt with clay, some fine sand, soft, cohesive, uniform, massive, trace roots. (Loess)					1.75					
S2	18	1 1 2	4	At 1' to 2', FAT CLAY (CH) % g-s-si-cl = 0-4-56-40 LL=51, PI=29 Olive gray (5Y 5/2).	CH				1.0	W				
			5											
S3	18	4 7 3	7	SILTY SAND (SM), strong brown (7.5YR 5/6), mostly fine sand with medium to coarse sand and some clay, fine to coarse gravel (mostly dolomite), uniform, massive. (Till) (Holy Hill Formation, Horicon Member)						W				
			8											
S4	18	3 4 17	9							W				
			10	Kh = 3.72E-04 cm/s										
S5	14	11 10 9	11	At 11' to 12.5', SILTY SAND (SM) % g-s-si-cl = 14-59-14-13	SM					W				
			12											
S6	13	9 29 39	14							W				
			15											



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

Signature 	Firm <b>SCS Engineers</b> 2830 Dairy Drive, Madison, WI 53718
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**SOIL BORING LOG INFORMATION SUPPLEMENT**  
Form 4400-122A

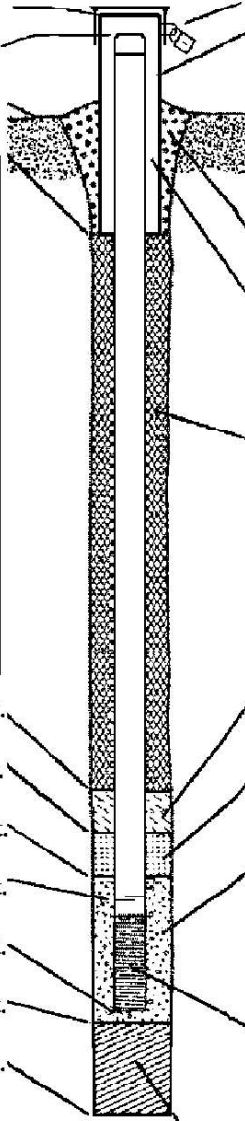
Boring Number **MW-117** Use only as an attachment to Form 4400-122. Page **2** of **2**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			16	<p>SILTY SAND (SM), strong brown (7.5YR 5/6), mostly fine sand with medium to coarse sand and some clay, fine to coarse gravel (mostly dolomite), uniform, massive. (Till) (Holy Hill Formation, Horicon Member)</p> <p>End of boring at 16' bgs in till. Constructed well from 15.3' bgs.</p>	SM									

State of Wisconsin  
Department of Natural ResourcesRoute to: Watershed/Wastewater ☐ Waste Management ☒  
Remediation/Redevelopment ☐ Other ☐MONITORING WELL CONSTRUCTION  
Form 4400-113A Rev. 7-98

Facility/Project Name Dane County Landfill Site No. 3 (Proposed)		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name MW-117	
Facility License, Permit or Monitoring No. --		Local Grid Origin (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. " Long. " or "		Wis. Unique Well No. WD846 DNR Well ID No. --	
Facility ID --		St. Plane 377912.89 ft. N, 2168366.81 ft. E. S/C/N		Date Well Installed 01 / 23 / 2023 m m d d y y y y	
Type of Well Well Code 11 / MW		Section Location of Waste/Source SW 1/4 of SE 1/4 of Sec. 25, T. 7 N, R. 10 E W		Well Installed By: Name (first, last) and Firm Scott Klumb	
Distance from Waste/Source ft. <input type="checkbox"/>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	
Enf. Stds. Apply <input checked="" type="checkbox"/>				Soils & Engineering Services, Inc.	

<p>A. Protective pipe, top elevation -- 902.37 ft. MSL</p> <p>B. Well casing, top elevation -- 902.35 ft. MSL</p> <p>C. Land surface elevation -- 899.8 ft. MSL</p> <p>D. Surface seal, bottom -- 896.8 ft. MSL or -- 3 ft.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USCS classification of soil near screen:</p> <p>GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/>  SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/>  Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0  Hollow Stem Auger <input checked="" type="checkbox"/> 4 1  Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1  Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe N/A</p> <p>17. Source of water (attach analysis, if required):  N/A</p> </div> <p>E. Bentonite seal, top -- 899.8 ft. MSL or -- 0 ft.</p> <p>F. Fine sand, top -- ft. MSL or -- ft.</p> <p>G. Filter pack, top -- 896.8 ft. MSL or -- 3 ft.</p> <p>H. Screen joint, top -- 894.8 ft. MSL or -- 5 ft.</p> <p>I. Well bottom -- 884.5 ft. MSL or -- 15.3 ft.</p> <p>J. Filter pack, bottom -- 883.8 ft. MSL or -- 16 ft.</p> <p>K. Borehole, bottom -- 883.8 ft. MSL or -- 16 ft.</p> <p>L. Borehole, diameter -- 8.3 in.</p> <p>M. O.D. well casing -- 2.38 in.</p> <p>N. I.D. well casing -- 2.07 in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe:  a. Inside diameter: -- 4 in.  b. Length: -- 5 ft.  c. Material: Steel <input checked="" type="checkbox"/> 0 4  Other <input type="checkbox"/>  d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If yes, describe:</p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0  Concrete <input type="checkbox"/> 0 1  Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe:  Bentonite <input type="checkbox"/> 3 0  Filter Sand <input checked="" type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3  b. Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5  c. Lbs/gal mud weight . . . . . Bentonite slurry <input type="checkbox"/> 3 1  d. % Bentonite . . . . . Bentonite-cement grout <input type="checkbox"/> 5 0  e. 2.07 Ft<sup>3</sup> volume added for any of the above  f. How installed: Tremie <input type="checkbox"/> 0 1  Tremie pumped <input type="checkbox"/> 0 2  Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3  b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2  c. Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name &amp; mesh size  a. Red Flint #15 <input checked="" type="checkbox"/>  b. Volume added 0.15 ft<sup>3</sup></p> <p>8. Filter pack material: Manufacturer, product name &amp; mesh size  a. Red Flint #40 <input checked="" type="checkbox"/>  b. Volume added 2.0 ft<sup>3</sup></p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3  Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4  Other <input type="checkbox"/></p> <p>10. Screen material: Sch. 40 PVC  a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1  Continuous slot <input type="checkbox"/> 0 1  Other <input type="checkbox"/>  b. Manufacturer Campbell (Monoflex)  c. Slot size: 0.01 in.  d. Slotted length: 10 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4  Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm

SCS ENGINEERS, 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.

Pre top (top)=34.5' above ground. TOC=2.59' above ground above ground surface

State of Wisconsin  
Department of Natural ResourcesMONITORING WELL DEVELOPMENT  
Form 4400-113B Rev. 7-98Route to: Watershed/Wastewater ☐Waste Management ☒Remediation/Redevelopment ☐Other ☐

Facility/Project Name Dane County Landfill No. 3 (Proposed)	County Name Dane	Well Name MW-117
Facility License, Permit or Monitoring Number --	County Code 13	Wis. Unique Well Number WD846
		DNR Well ID Number --

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☒ 4 1  
 surged with bailer and pumped ☐ 6 1  
 surged with block and bailed ☐ 4 2  
 surged with block and pumped ☐ 6 2  
 surged with block, bailed and pumped ☐ 7 0  
 compressed air ☐ 2 0  
 bailed only ☐ 1 0  
 pumped only ☐ 5 1  
 pumped slowly ☐ 5 0  
 Other ☐

3. Time spent developing well 35 min.4. Depth of well (from top of well casing) 17.9 ft.5. Inside diameter of well 2.07 in.6. Volume of water in filter pack and well casing 12.3 gal.7. Volume of water removed from well 7.0 gal.8. Volume of water added (if any) 0.0 gal.9. Source of water added NA10. Analysis performed on water added? ☐ Yes ☒ No  
(If yes, attach results)

17. Additional comments on development:

- Purged and surged for 30 minutes
- Purged dry 3 times for a total of 7 gallons purged
- Sample time: 12:35

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>3.31</u> ft.	<u>15.84</u> ft.
Date	b. <u>01</u> / <u>27</u> / <u>2023</u> m m d d y y y y	<u>01</u> / <u>27</u> / <u>2023</u> m m d d y y y y
Time	c. <u>11:55</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>12:30</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u>3.0</u> inches	<u>~3.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>medium brown color</u> <u>no odor</u>	Clear <input type="checkbox"/> 2 0 Turbid <input checked="" type="checkbox"/> 2 5 (Describe) <u>medium brown color</u> <u>no odor</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	<u>63,900.0</u> mg/l	
15. COD	<u>---</u> mg/l	
16. Well developed by: Name (first, last) and Firm		
First Name: <u>Ethan</u>		Last Name: <u>Schaefer</u>
Firm: <u>SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718</u>		

Name and Address of Facility Contact/Owner/Responsible Party

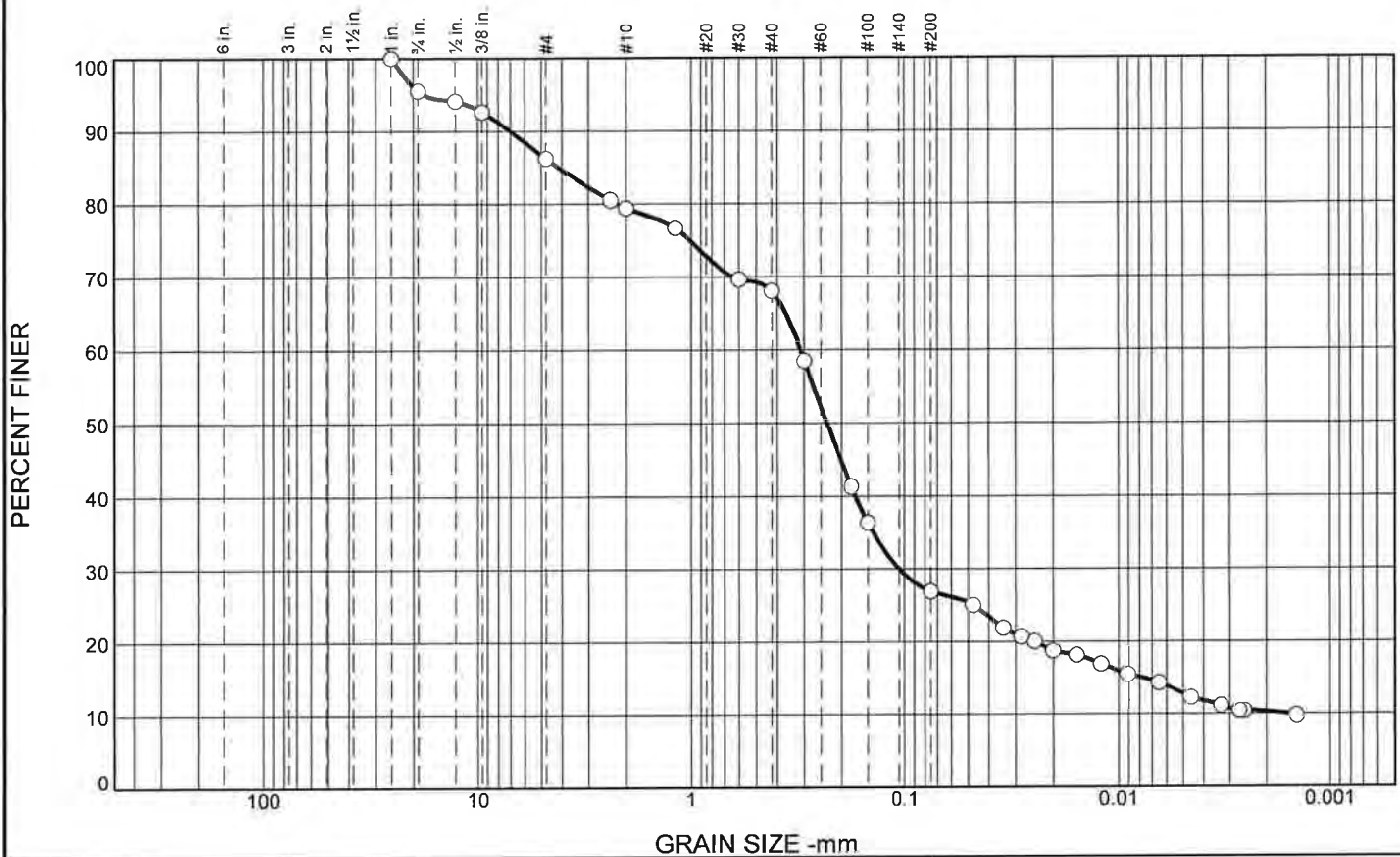
First Name: Allison Last Name: RathsackFacility/Firm: Dane County Dpt. of Waste & RenewablesStreet: 1919 Alliant Energy Center WayCity/State/Zip: Madison, WI 53713

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

Signature: Ethan SchaeferPrint Name: Ethan SchaeferFirm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

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

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	4.5	9.3	6.8	11.4	41.1	14.1	12.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100.0		
3/4	95.5		
1/2	94.1		
3/8	92.6		
#4	86.2		
#8	80.5		
#10	79.4		
#16	76.6		
#30	69.7		
#40	68.0		
#50	58.5		
#80	41.3		
#100	36.4		
#200	26.9		

\* (no specification provided)

## Material Description

Brown Fine to Coarse Sand, Some Silt and Gravel

## Atterberg Limits

PL= NP

LL= NP

PI= NP

## Coefficients

D<sub>90</sub>= 7.0087

D<sub>85</sub>= 4.1715

D<sub>60</sub>= 0.3132

D<sub>50</sub>= 0.2351

D<sub>30</sub>= 0.1063

D<sub>15</sub>= 0.0077

D<sub>10</sub>= 0.0016

C<sub>u</sub>= 201.33

C<sub>c</sub>= 23.20

## Classification

USCS= SM

AASHTO= A-2-4(0)

## Remarks

NP= Non-Plastic

Sample Number: MW117

Depth: 11'-12.5'

Date: 3/21/23

**CGC, Inc.**

Client: SCS Engineers

Project: Dane County Yahara Hills

Project No: C22011-8

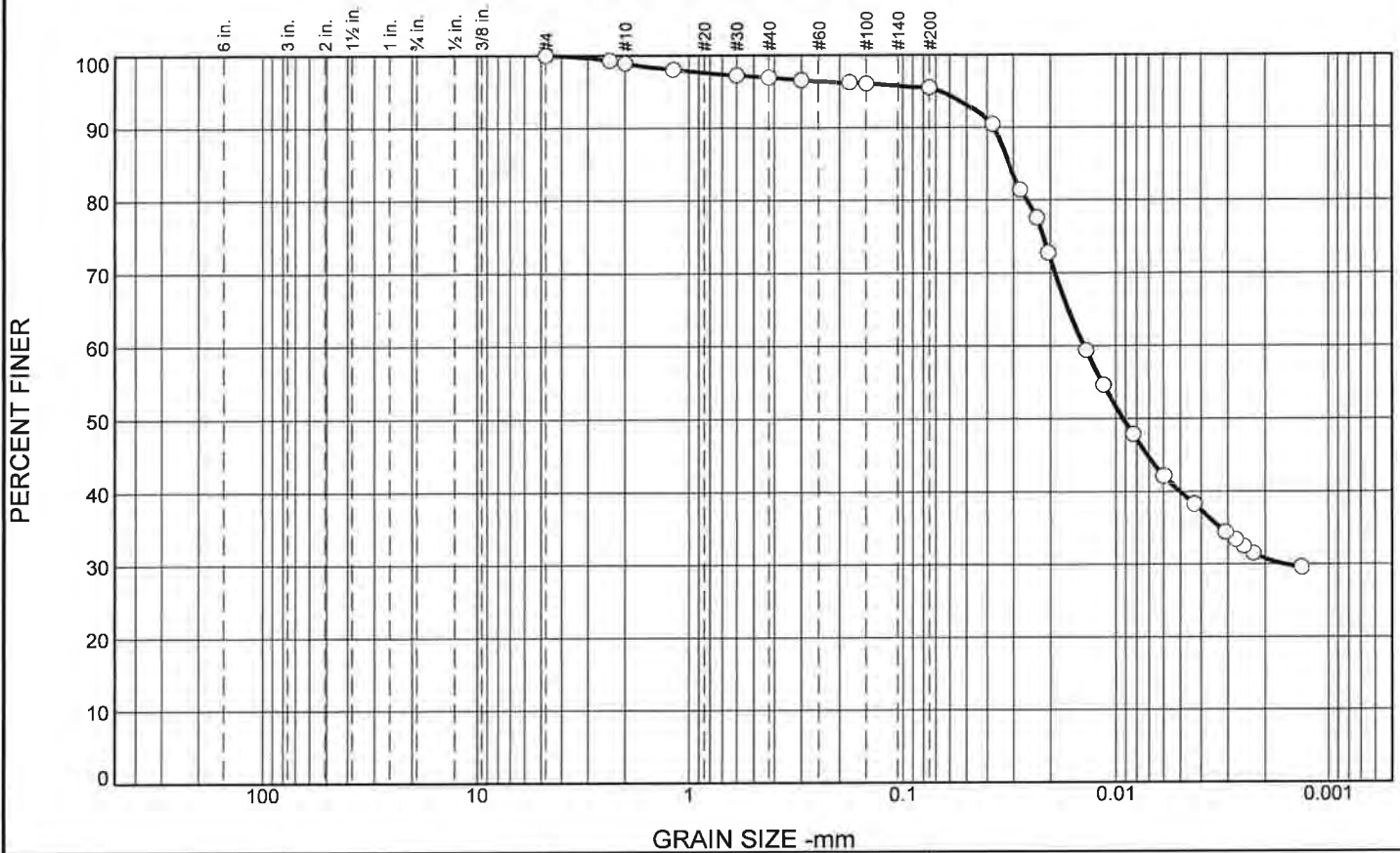
Figure

Tested By: JFS

Checked By: KJS



# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	1.1	1.9	1.5	55.6	39.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	99.3		
#10	98.9		
#16	98.1		
#30	97.3		
#40	97.0		
#50	96.6		
#80	96.2		
#100	96.0		
#200	95.5		

\* (no specification provided)

**Material Description**  
 Brown Fat Clay, Trace Sand

**Atterberg Limits**  
 PL= 22      LL= 51      PI= 29

**Coefficients**  
 D<sub>90</sub>= 0.0370      D<sub>85</sub>= 0.0316      D<sub>60</sub>= 0.0141  
 D<sub>50</sub>= 0.0093      D<sub>30</sub>= 0.0016      D<sub>15</sub>=  
 D<sub>10</sub>=      C<sub>u</sub>=      C<sub>c</sub>=

**Classification**  
 USCS= CH      AASHTO= A-7-6(31)

**Remarks**

Sample Number: MW-117

Depth: 1'-2'

Date: 3/8/23

**CGC, Inc.**

Client: SCS Engineers

Project: Dane Couty Yahara Hills

Project No: C22011-8

Figure

Tested By: JFS

Checked By: KJS

MW-117A

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

Page 1 of 3

Facility/Project Name Dane County Landfill No. 3 (Proposed) SCS#: 25222268.00		License/Permit/Monitoring Number		Boring Number MW-117A	
Boring Drilled By: Name of crew chief (first, last) and Firm Scott Klumb Soils & Engineering Services, Inc.		Date Drilling Started 2/6/2023		Date Drilling Completed 3/2/2023	
Drilling Method HSA, 4.25" ID & Air Rotary					
WI Unique Well No. WD869	DNR Well ID No. --	Common Well Name MW-117A	Final Static Water Level --	Surface Elevation 899.7 Feet MSL	Borehole Diameter 8.3" & 6"
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/> State Plane 377,911 N, 2,168,363 E S/C/N SE 1/4 of SE 1/4 of Section 25, T 7 N, R 10 E			Local Grid Location Lat _____ ° _____ ' _____ " _____ " Long _____ ° _____ ' _____ " _____ " Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County Dane	County Code 13	Civil Town/City/ or Village City of Madison	

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1	Blind drilled to 18.5' bgs. (See MW-117 log for lithology from 0' to 16' bgs.) Split barrel sampled from 18.5' to 30' bgs and cored hole from 30' to 50.75' bgs on 2/6/2023. Reamed hole to 6" diameter to 51' bgs using air rotary on 3/2/2023 and set well MW-117A at 50.3' bgs.										
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											
			13											
			14											
			15											

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

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

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

Boring Number **MW-117A** Use only as an attachment to Form 4400-122. Page **2** of **3**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				Blind drilled to 18.5' bgs.										
S1	18	6 5/7	18	SILTY SAND (SM), yellowish brown (10YR 5/6), mostly fine sand, with medium to coarse sand, some clay, and fine to coarse gravel (mostly dolomite), uniform, massive. (Till) (Holy Hill Formation, Horicon Member)	SM					W				
S2	18	11 89/4	24	SILTY SAND (SM), white (10YR 8/1), fine to medium grained, with silt and green (glauconite) clay. (SS2) (Ansell Group, St. Peter Formation, Tonti Member)	SS2					W				
Run 1	53.5		31	DOLOMITE (DL4), light gray (2.5Y 7/2), massive, with sand, chert, round, oval, and elongated vugs, calcite, aragonite, dendrites, and green (glauconite) clay. (Prairie du Chien Group, Oneota Formation)	DL4									
			35	More sandy.										FF=4.46/ft Percent Recovery=89% RQD=48%, poor

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

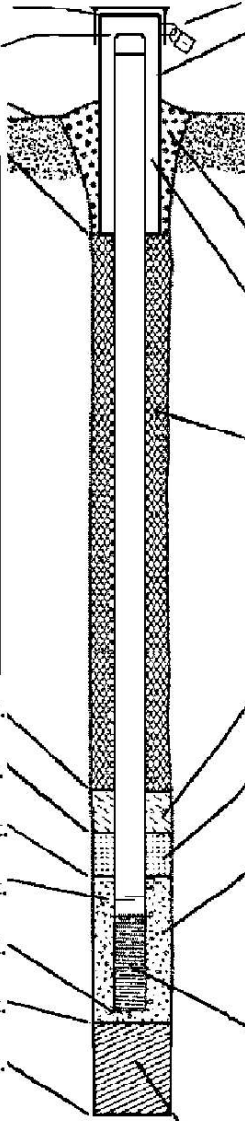
Boring Number **MW-117A** Use only as an attachment to Form 4400-122. Page **3** of **3**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
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) clay. (Prairie du Chien Group, Oneota Formation)	DL4									FF=1.19/ft Percent Recovery=85% RQD=36%, poor
			42											
			43											
			44											
			45											
			46											
			47											
			48											
			49											
			50											
Run 3	56		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.										FF=1.1/ft Percent Recovery=93% RQD=61%, fair

State of Wisconsin  
Department of Natural ResourcesRoute to: Watershed/Wastewater ☐ Waste Management ☒  
Remediation/Redevelopment ☐ Other ☐MONITORING WELL CONSTRUCTION  
Form 4400-113A Rev. 7-98

Facility/Project Name Dane County Landfill Site No. 3 (Proposed)		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name MW-117A	
Facility License, Permit or Monitoring No. --		Local Grid Origin (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. " Long. " or "		Wis. Unique Well No. WD869 DNR Well ID No. --	
Facility ID --		St. Plane 377910.95 ft. N, 2168363.17 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/Source SW 1/4 of SE 1/4 of Sec. 25, T. 7 N, R. 10 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Scott Klumb	
Distance from Waste/Source ft. <input type="checkbox"/>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	
Enf. Stds. Apply <input checked="" type="checkbox"/>				Soils & Engineering Services, Inc.	

<p>A. Protective pipe, top elevation --- 902.38 ft. MSL</p> <p>B. Well casing, top elevation --- 902.36 ft. MSL</p> <p>C. Land surface elevation --- 899.7 ft. MSL</p> <p>D. Surface seal, bottom --- 858.7 ft. MSL or --- 41 ft.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USCS classification of soil near screen:</p> <p>GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/>  SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/>  Bedrock <input checked="" type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input checked="" type="checkbox"/> 5 0  Hollow Stem Auger <input checked="" type="checkbox"/> 4 1  Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input checked="" type="checkbox"/> 0 2 Air <input checked="" type="checkbox"/> 0 1  Drilling Mud <input type="checkbox"/> 0 3 None <input type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe N/A</p> <p>17. Source of water (attach analysis, if required):  Yahara Hills Private Well</p> </div> <p>E. Bentonite seal, top --- 899.7 ft. MSL or --- 0 ft.</p> <p>F. Fine sand, top --- 858.7 ft. MSL or --- 41 ft.</p> <p>G. Filter pack, top --- 856.7 ft. MSL or --- 43 ft.</p> <p>H. Screen joint, top --- 854.7 ft. MSL or --- 45 ft.</p> <p>I. Well bottom --- 849.4 ft. MSL or --- 50.3 ft.</p> <p>J. Filter pack, bottom --- 848.7 ft. MSL or --- 51 ft.</p> <p>K. Borehole, bottom --- 848.7 ft. MSL or --- 51 ft.</p> <p>L. Borehole, diameter --- 8.3 in.</p> <p>M. O.D. well casing --- 2.38 in.</p> <p>N. I.D. well casing --- 2.07 in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe:  a. Inside diameter: --- 4 in.  b. Length: --- 5 ft.  c. Material: Steel <input checked="" type="checkbox"/> 0 4  Other <input type="checkbox"/>  d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If yes, describe: ---</p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0  Concrete <input type="checkbox"/> 0 1  Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe:  Filter Sand Bentonite <input type="checkbox"/> 3 0  Other <input checked="" type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3  b. 2:1 Lbs/gal mud weight . . . Bentonite-sand slurry <input checked="" type="checkbox"/> 3 5  c. --- Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 3 1  d. --- % Bentonite . . . . . Bentonite-cement grout <input type="checkbox"/> 5 0  e. 15.9 Ft<sup>3</sup> volume added for any of the above  f. How installed: Tremie <input type="checkbox"/> 0 1  Tremie pumped <input checked="" type="checkbox"/> 0 2  Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3  b. <input checked="" type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 3 2  c. Pell plug, Bentonite Pellets <input type="checkbox"/> Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name &amp; mesh size  a. Red Flint #15 <input checked="" type="checkbox"/>  b. Volume added 0.4 ft<sup>3</sup></p> <p>8. Filter pack material: Manufacturer, product name &amp; mesh size  a. Red Flint #40 <input checked="" type="checkbox"/>  b. Volume added 1.5 ft<sup>3</sup></p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3  Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4  Other <input type="checkbox"/></p> <p>10. Screen material: Sch. 40 PVC  a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1  Continuous slot <input type="checkbox"/> 0 1  Other <input type="checkbox"/>  b. Manufacturer Campbell (Monoflex)  c. Slot size: 0.01 in.  d. Slotted length: 5 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4  Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm

SCS ENGINEERS, 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/Wastewater ☐ Waste Management ☒

Remediation/Redevelopment ☐ Other ☐

Facility/Project Name Dane County Landfill No. 3 (Proposed)	County Name Dane	Well Name MW-117A
Facility License, Permit or Monitoring Number	County Code 13	Wis. Unique Well Number WD869
		DNR Well ID Number

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☐ 4 1  
 surged with bailer and pumped ☒ 6 1  
 surged with block and bailed ☐ 4 2  
 surged with block and pumped ☐ 6 2  
 surged with block, bailed and pumped ☐ 7 0  
 compressed air ☐ 2 0  
 bailed only ☐ 1 0  
 pumped only ☐ 5 1  
 pumped slowly ☐ 5 0  
 Other ☐

3. Time spent developing well 100 min.

4. Depth of well (from top of well casing) 52.9 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 12.1 gal.

7. Volume of water removed from well 29.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

10. Analysis performed on water added? ☐ Yes ☒ No  
(If yes, attach results)

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

Facility/Firm: Dane County Dpt. of Waste & Renewables

Street: 1919 Alliant Energy Center Way

City/State/Zip: Madison, WI 53713

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

Signature: 

Print Name: Bri Salome

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 ☐ Waste Management ☒  
Remediation/Redevelopment ☐ Other ☐

Page 1 of 2

Facility/Project Name <b>Dane County Landfill No. 3 (Proposed) SCS#: 25222268.00</b>			License/Permit/Monitoring Number		Boring Number <b>MW-118</b>		
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Scott Klumb Soils &amp; Engineering Services, Inc.</b>			Date Drilling Started <b>1/27/2023</b>		Date Drilling Completed <b>1/27/2023</b>		
WI Unique Well No. <b>WD862</b>		DNR Well ID No. <b>--</b>		Common Well Name <b>MW-118</b>		Borehole Diameter <b>8.3"</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/> State Plane <b>377,989 N, 2,169,161 E S/C/N</b>		Final Static Water Level <b>897.4 Feet MSL</b>		Surface Elevation <b>901.9 Feet MSL</b>		Drilling Method <b>HSA, 4.25" ID</b>	
SE 1/4 of SE 1/4 of Section 25, T 7 N, R 10 E		Lat _____ ° _____ ' _____ "		Long _____ ° _____ ' _____ "		Local Grid Location Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County <b>Dane</b>		County Code <b>13</b>		Civil Town/City/ or Village <b>City of Madison</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	11	23 56	1	ORGANIC SILT (OL), very dark grayish brown (10YR 3/2), with roots. (Topsoil)	OL					M				
S2	11	22 2	2	LEAN CLAY (CL), dark yellowish brown (10YR 3/4) with black mottling, mostly silt with clay, some fine sand, soft, cohesive, uniform, massive, trace roots. (Loess)	CL									
S3	16	11 2	3	SILTY SAND (SM), dark brown (10YR 3/3), mostly fine sand with medium to coarse sand and some clay, fine to coarse gravel (mostly dolomite), uniform, massive. (Till) (Holy Hill Formation, Horicon Member)	SM				1.5	W				Depth to water is ~4.5' bgs.
S4	14		4											
S5	18	76 13	5	Kh = 2.22E-03 cm/s						W				
S6	18	626 32	6	POORLY GRADED SAND WITH SILT (SP-SM), yellow (10YR 8/8), fine to medium grained. (Weathered Sandstone Bedrock) (SS2) (Ansell Group, St. Peter Formation, Tonti Member)	SS2					W				
			7	Trace pieces of consolidated sandstone.										
			8	At 11' to 12.5' POORLY GRADED SAND WITH SILT (SP-SM) % g-s-si+cl = 2-93-6						W				
			9											
			10											
			11											
			12											
			13											
			14											
			15											

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

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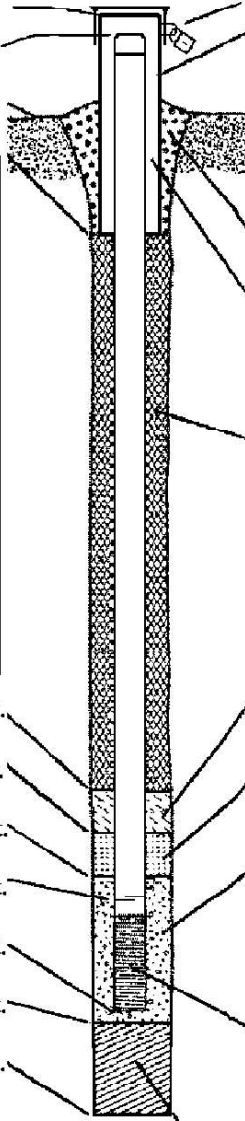
This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally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



State of Wisconsin  
Department of Natural ResourcesRoute to: Watershed/Wastewater ☐ Waste Management ☒  
Remediation/Redevelopment ☐ Other ☐MONITORING WELL CONSTRUCTION  
Form 4400-113A Rev. 7-98

Facility/Project Name Dane County Landfill Site No. 3 (Proposed)		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name MW-118	
Facility License, Permit or Monitoring No. --		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. " Long. " or "		Wis. Unique Well No. <u>WD862</u> DNR Well ID No. <u>--</u>	
Facility ID --		St. Plane <u>377988.64</u> ft. N. <u>2169160.61</u> ft. E. S/C/N		Date Well Installed <u>01</u> / <u>27</u> / <u>2023</u> m m d d y y y y	
Type of Well Well Code <u>11</u> / MW		Section Location of Waste/Source SE <u>1/4</u> of SE <u>1/4</u> of Sec. <u>25</u> , T. <u>7</u> N. R. <u>10</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <u>Scott Klumb</u> <u>Soils &amp; Engineering Services, Inc.</u>	
Distance from Waste/Source <u>    </u> ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number <u>    </u>	
Enf. Stds. Apply <input checked="" type="checkbox"/>					

<p>A. Protective pipe, top elevation <u>904.23</u> ft. MSL</p> <p>B. Well casing, top elevation <u>904.27</u> ft. MSL</p> <p>C. Land surface elevation <u>901.9</u> ft. MSL</p> <p>D. Surface seal, bottom <u>897.9</u> ft. MSL or <u>4</u> ft.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USCS classification of soil near screen:  GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/>  SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/>  Bedrock <input checked="" type="checkbox"/></p> <p>13. Sieve analysis performed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0  Hollow Stem Auger <input checked="" type="checkbox"/> 4 1  Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1  Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe <u>    </u></p> <p>17. Source of water (attach analysis, if required):  <u>    </u></p> </div> <p>E. Bentonite seal, top <u>901.9</u> ft. MSL or <u>0</u> ft.</p> <p>F. Fine sand, top <u>897.9</u> ft. MSL or <u>4</u> ft.</p> <p>G. Filter pack, top <u>897.4</u> ft. MSL or <u>4.5</u> ft.</p> <p>H. Screen joint, top <u>896.9</u> ft. MSL or <u>5</u> ft.</p> <p>I. Well bottom <u>886.6</u> ft. MSL or <u>15.3</u> ft.</p> <p>J. Filter pack, bottom <u>886.6</u> ft. MSL or <u>15.3</u> ft.</p> <p>K. Borehole, bottom <u>886.6</u> ft. MSL or <u>15.3</u> ft.</p> <p>L. Borehole, diameter <u>8.3</u> in.</p> <p>M. O.D. well casing <u>2.38</u> in.</p> <p>N. I.D. well casing <u>2.07</u> in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe:  a. Inside diameter: <u>4</u> in.  b. Length: <u>5</u> ft.  c. Material: Steel <input checked="" type="checkbox"/> 0 4  Other <input type="checkbox"/>  d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If yes, describe: <u>    </u></p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0  Concrete <input type="checkbox"/> 0 1  Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe:  Bentonite <input type="checkbox"/> 3 0  Filter Sand <input checked="" type="checkbox"/>  Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3  b. <u>    </u> Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5  c. <u>    </u> Lbs/gal mud weight . . . . . Bentonite slurry <input type="checkbox"/> 3 1  d. <u>    </u> % Bentonite . . . . . Bentonite-cement grout <input type="checkbox"/> 5 0  e. <u>2.07</u> Ft<sup>3</sup> volume added for any of the above  f. How installed: Tremie <input type="checkbox"/> 0 1  Tremie pumped <input type="checkbox"/> 0 2  Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3  b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2  c. <u>    </u> Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name &amp; mesh size  a. <u>Red Flint #15</u> <input checked="" type="checkbox"/>  b. Volume added <u>0.5</u> ft<sup>3</sup></p> <p>8. Filter pack material: Manufacturer, product name &amp; mesh size  a. <u>Red Flint #40</u> <input checked="" type="checkbox"/>  b. Volume added <u>2.0</u> ft<sup>3</sup></p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3  Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4  Other <input type="checkbox"/></p> <p>10. Screen material: <u>Sch. 40 PVC</u>  a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1  Continuous slot <input type="checkbox"/> 0 1  Other <input type="checkbox"/>  b. Manufacturer <u>Campbell (Monoflex)</u>  c. Slot size: <u>0.01</u> in.  d. Slotted length: <u>10</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4  Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature



Firm

SCS ENGINEERS, 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.

2.8' stick up height

State of Wisconsin  
Department of Natural ResourcesMONITORING WELL DEVELOPMENT  
Form 4400-113B Rev. 7-98Route to: Watershed/Wastewater ☐Waste Management ☒Remediation/Redevelopment ☐Other ☐

Facility/Project Name Dane County Landfill No. 3 (Proposed)	County Name Dane	Well Name MW-118
Facility License, Permit or Monitoring Number --	County Code 13	Wis. Unique Well Number WD862
		DNR Well ID Number --

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- surged with bailer and bailed ☐ 4 1  
 surged with bailer and pumped ☒ 6 1  
 surged with block and bailed ☐ 4 2  
 surged with block and pumped ☐ 6 2  
 surged with block, bailed and pumped ☐ 7 0  
 compressed air ☐ 2 0  
 bailed only ☐ 1 0  
 pumped only ☐ 5 1  
 pumped slowly ☐ 5 0  
 Other ☐

3. Time spent developing well 70 min.4. Depth of well (from top of well casing) 17.6 ft.5. Inside diameter of well 2.07 in.6. Volume of water in filter pack and well casing 9.8 gal.7. Volume of water removed from well 76.8 gal.8. Volume of water added (if any) 0.0 gal.9. Source of water added NA10. Analysis performed on water added? ☐ Yes ☒ No  
(If yes, attach results)

17. Additional comments on development:

- Surged with bailer 30 minutes, purged 10 gallons
- Pumped with Gfoss. Pump rate=2.5gpm
- 10 well volumes =98 gallons
- Pumped 66.8 gallons

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>7.01</u> ft.	<u>7.52</u> ft.
Date	b. <u>02</u> / <u>02</u> / <u>2023</u> m m d d y y y y	<u>02</u> / <u>02</u> / <u>2023</u> m m d d y y y y
Time	c. <u>10:20</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>11:30</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>1.0</u> inches	<u>&lt;1.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>brown</u> <u>no odor</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) <u>very slight turbidity</u> <u>no odor</u> <u>mostly clear</u>

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended 4,400.0 mg/l  
solids15. COD --- mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Ethan Last Name: Schaefer

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Allison Last Name: Rathack

Facility/Firm: Dane County Dpt. of Waste &amp; Renewables

Street: 1919 Alliant Energy Center Way

City/State/Zip: Madison, WI 53713

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

Signature: Ethan Schaefer

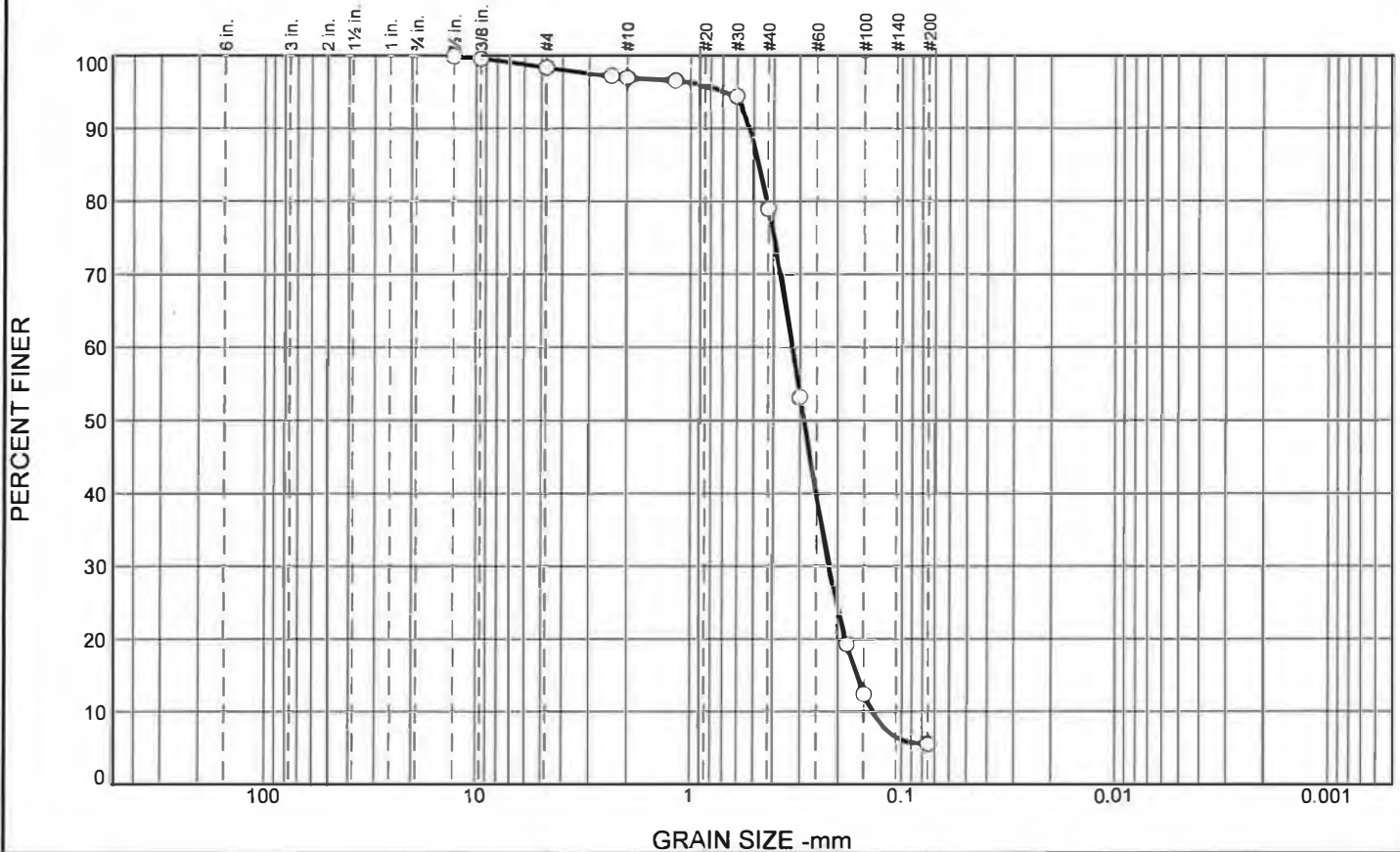
Print Name: Ethan Schaefer

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.



# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	1.6	1.4	18.0	73.4	5.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1/2	100.0		
3/8	99.6		
#4	98.4		
#8	97.2		
#10	97.0		
#16	96.6		
#30	94.5		
#40	79.0		
#50	53.2		
#80	19.3		
#100	12.4		
#200	5.6		

\* (no specification provided)

## Material Description

Light Brown Fine to Medium Sand, Little Silt, Trace Gravel

## Atterberg Limits

PL= NP

LL= NP

PI= NP

## Coefficients

D<sub>90</sub>= 0.5247

D<sub>85</sub>= 0.4713

D<sub>60</sub>= 0.3271

D<sub>50</sub>= 0.2879

D<sub>30</sub>= 0.2180

D<sub>15</sub>= 0.1623

D<sub>10</sub>= 0.1366

C<sub>u</sub>= 2.40

C<sub>c</sub>= 1.06

## Classification

USCS= SP-SM

AASHTO= A-3

## Remarks

NP= Non-Plastic

Sample Number: MW118

Depth: 11'-12.5'

Date: 3/16/23

**CGC, Inc.**

Client: SCS Engineers

Project: Dane County Yahara Hills

Project No: C22011-8

Figure

Tested By: JFS

Checked By: KJS

MW-118A

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

Page 1 of 3

Facility/Project Name Dane County Landfill No. 3 (Proposed) SCS#: 25222268.00			License/Permit/Monitoring Number		Boring Number MW-118A		
Boring Drilled By: Name of crew chief (first, last) and Firm Scott Klumb Soils & Engineering Services, Inc.			Date Drilling Started 2/17/2023		Date Drilling Completed 2/20/2023		
Drilling Method HSA, 4.25" ID & HQ Core							
WI Unique Well No. WD864		DNR Well ID No. --		Common Well Name MW-118A		Final Static Water Level 895.9 Feet MSL	
				Surface Elevation 901.8 Feet MSL		Borehole Diameter 8.3" & 3.8"	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/> State Plane 377,985 N, 2,169,164 E S/C/N SE 1/4 of SE 1/4 of Section 25, T 7 N, R 10 E			Lat _____ ° _____ ' _____ " _____" Long _____ ° _____ ' _____ " _____"		Local Grid Location Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County Dane		County Code 13		Civil Town/City/ or Village City of Madison	

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Blind drilled to 16' bgs. (See MW-118 log for lithology from 0' to 15' bgs.) Split-barrel sampled from 16' to 47' bgs on 2/17/2023. Cored hole from 47' to 52.8' bgs on 2/20/2023 and set well MW-118A at 46.3' bgs.										

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

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

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

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

Boring Number **MW-118A** Use only as an attachment to Form 4400-122. Page **2** of **3**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	18	10 8 14	16 17	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 18.5' to 20', CLAYEY SAND (SC) % g-s-si-cl = 1-54-23-23 LL = 39 PI = 22						W				Depth to water at 5.9' bgs.
S2	18	3 6 8	19 20							W				
			21 22 23											
S3	18	11 10 13	24 25							W				
			26 27											
			28		SS3									
S4	5.5	100/5.5	29 30							W				
			31 32 33											
S5	3.5	100/3.5	34 35							W				
			36 37											
S6	8	38 30/4 30/2"	39 40	At 39' to 40', FAT CLAY (CH) % g-s-si-cl = 4-16-23-57 LL = 58 PI = 26						W				Harder drilling at 39' bgs.

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

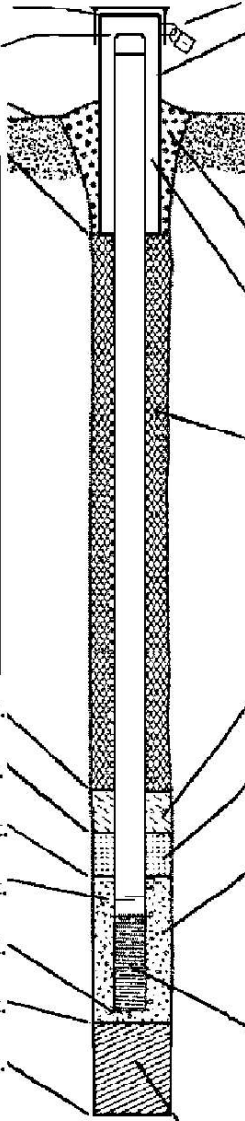
Boring Number **MW-118A** Use only as an attachment to Form 4400-122. Page **3** of **3**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S7	8	100/6"	41	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. (Ansell 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									
			42											
			43											
			44											
			45											
Run 1	69.6		46	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									
			47											
			48											
			49											
			50											
			51	End of boring at 52.8' bgs in dolomite. Reamed hole to 6" diameter using air rotary and constructed well from 46.3' bgs.										
			52											
														FF=1.54/ft Percent Recovery=100% RQD=83%, good

State of Wisconsin  
Department of Natural ResourcesRoute to: Watershed/Wastewater ☐ Waste Management ☒  
Remediation/Redevelopment ☐ Other ☐MONITORING WELL CONSTRUCTION  
Form 4400-113A Rev. 7-98

Facility/Project Name Dane County Landfill Site No. 3 (Proposed)		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name MW-118A	
Facility License, Permit or Monitoring No. --		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. " Long. " or "		Wis. Unique Well No. <u>WD864</u> DNR Well ID No. <u>--</u>	
Facility ID --		St. Plane <u>377985.41</u> ft. N, <u>2169163.59</u> ft. E. S/C/N		Date Well Installed <u>02</u> / <u>20</u> / <u>2023</u> m m d d y y y y	
Type of Well Well Code <u>12</u> / <u>PZ</u>		Section Location of Waste/Source SE <u>1/4</u> of SE <u>1/4</u> of Sec. <u>25</u> , T. <u>7</u> N, R. <u>10</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <u>Scott Klumb</u>	
Distance from Waste/Source <u>    </u> ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number <u>    </u>	
Enf. Stds. Apply <input checked="" type="checkbox"/>		Soils & Engineering Services, Inc.			

<p>A. Protective pipe, top elevation <u>904.35</u> ft. MSL</p> <p>B. Well casing, top elevation <u>904.26</u> ft. MSL</p> <p>C. Land surface elevation <u>901.8</u> ft. MSL</p> <p>D. Surface seal, bottom <u>865.0</u> ft. MSL or <u>36.8</u> ft.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USCS classification of soil near screen:</p> <p>GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/>  SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/>  Bedrock <input checked="" type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0  Hollow Stem Auger <input checked="" type="checkbox"/> 4 1  Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1  Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe <u>N/A</u></p> <p>17. Source of water (attach analysis, if required):  <u>N/A</u></p> </div> <p>E. Bentonite seal, top <u>901.8</u> ft. MSL or <u>0</u> ft.</p> <p>F. Fine sand, top <u>865.0</u> ft. MSL or <u>36.8</u> ft.</p> <p>G. Filter pack, top <u>863.0</u> ft. MSL or <u>38.8</u> ft.</p> <p>H. Screen joint, top <u>860.8</u> ft. MSL or <u>41</u> ft.</p> <p>I. Well bottom <u>855.5</u> ft. MSL or <u>46.3</u> ft.</p> <p>J. Filter pack, bottom <u>849.0</u> ft. MSL or <u>52.8</u> ft.</p> <p>K. Borehole, bottom <u>849.0</u> ft. MSL or <u>52.8</u> ft.</p> <p>L. Borehole, diameter <u>6.0</u> in.</p> <p>M. O.D. well casing <u>2.38</u> in.</p> <p>N. I.D. well casing <u>2.07</u> in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe:  a. Inside diameter: <u>4</u> in.  b. Length: <u>5</u> ft.  c. Material: Steel <input checked="" type="checkbox"/> 0 4  Other <input type="checkbox"/>  d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If yes, describe: <u>    </u></p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0  Concrete <input type="checkbox"/> 0 1  Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 3 0  Filter Sand Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3  b. <u>    </u> Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5  c. <u>50:24</u> Lbs/gal mud weight . . . . . Bentonite slurry <input checked="" type="checkbox"/> 3 1  d. <u>    </u> % Bentonite . . . . . Bentonite-cement grout <input type="checkbox"/> 5 0  e. <u>10.87</u> Ft<sup>3</sup> volume added for any of the above  f. How installed: Tremie <input checked="" type="checkbox"/> 0 1  Tremie pumped <input checked="" type="checkbox"/> 0 2  Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3  b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 3 2  c. Bent Pellets Other <input checked="" type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name &amp; mesh size  a. <u>Red Flint #15</u> <input checked="" type="checkbox"/>  b. Volume added <u>1</u> ft<sup>3</sup></p> <p>8. Filter pack material: Manufacturer, product name &amp; mesh size  a. <u>Red Flint #40</u> <input checked="" type="checkbox"/>  b. Volume added <u>2.25</u> ft<sup>3</sup></p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3  Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4  Other <input type="checkbox"/></p> <p>10. Screen material: <u>Sch. 40 PVC</u>  a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1  Continuous slot <input type="checkbox"/> 0 1  Other <input type="checkbox"/>  b. Manufacturer <u>Campbell (Monoflex)</u>  c. Slot size: <u>0.01</u> in.  d. Slotted length: <u>5</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4  Other <input type="checkbox"/></p>
---	---

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

Signature

*Bridget Dinnell*

Firm

SCS ENGINEERS, 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.



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

Facility/Project Name Dane County Landfill No. 3 (Proposed)	County Name Dane	Well Name MW-118A
Facility License, Permit or Monitoring Number --	County Code 13	Wis. Unique Well Number WD864
		DNR Well ID Number --

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☐ 4 1  
 surged with bailer and pumped ☒ 6 1  
 surged with block and bailed ☐ 4 2  
 surged with block and pumped ☐ 6 2  
 surged with block, bailed and pumped ☐ 7 0  
 compressed air ☐ 2 0  
 bailed only ☐ 1 0  
 pumped only ☐ 5 1  
 pumped slowly ☐ 5 0  
 Other ☐

3. Time spent developing well 90 min.4. Depth of well (from top of well casing) 49.1 ft.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 NA10. Analysis performed on water added? ☐ Yes ☒ No  
(If yes, attach results)

17. Additional comments on development:

- 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: RathsackFacility/Firm: Dane County Dpt. of Waste & RenewablesStreet: 1919 Alliant Energy Center WayCity/State/Zip: Madison, WI 53713

11. Depth to Water Before Development After Development

a. 5 21 ft. 46 13 ft.  
(from top of well casing)Date b. 03 / 17 / 2023 03 / 17 / 2023  
m m d d y y y y m m d d y y y yTime c. 8:55 ☒ a.m. 10:25 ☒ a.m.  
p.m. p.m.12. Sediment in well bottom 2.0 inches 0.5 inches13. Water clarity Clear ☐ 1 0 Clear ☐ 2 0  
Turbid ☒ 1 5 Turbid ☒ 2 5  
(Describe) (Describe)

light brown

no odor

cloudy white

no odor

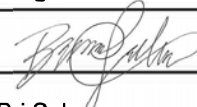
Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended 355.0 mg/l  
solids15. COD 355.0 mg/l

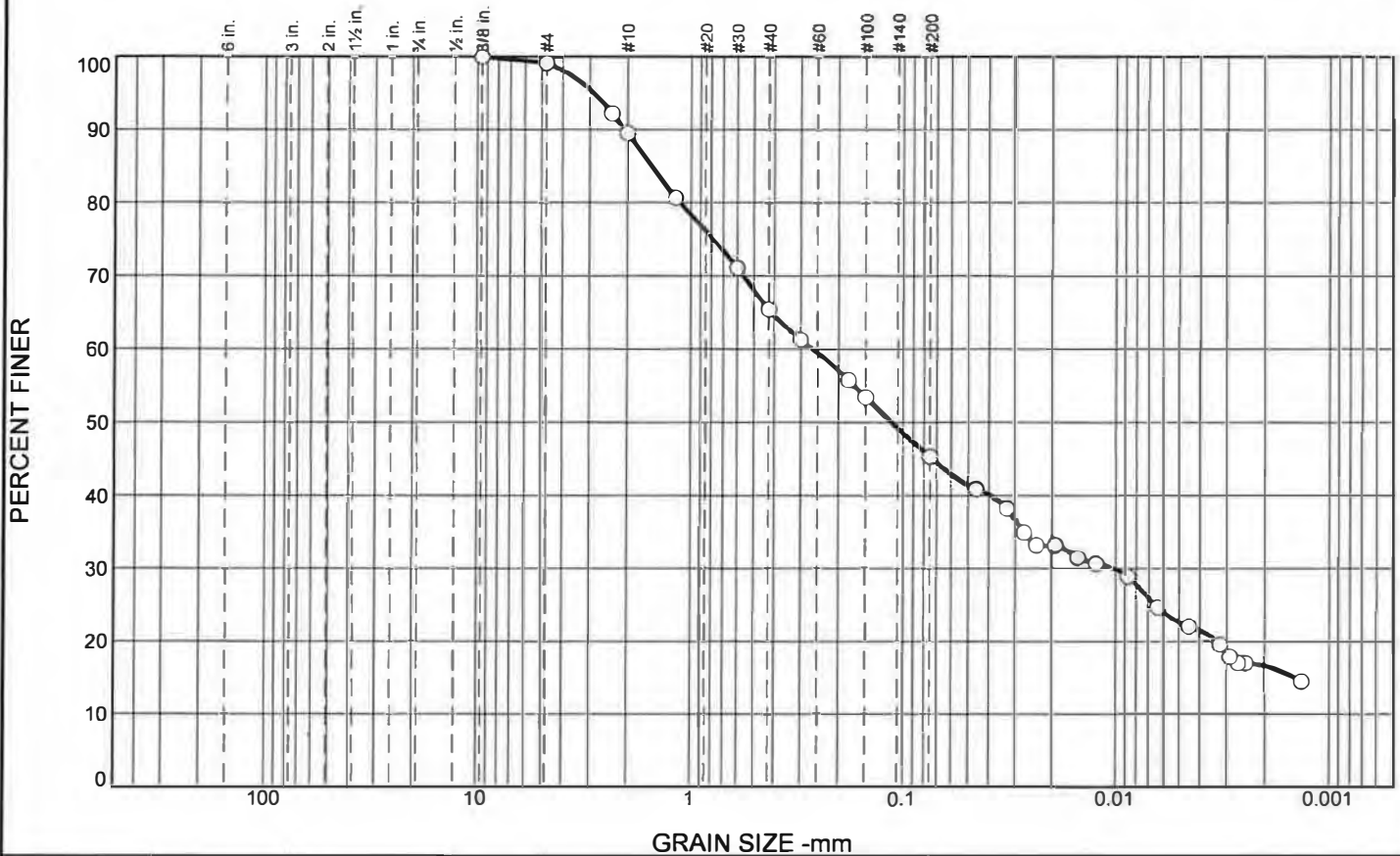
16. Well developed by: Name (first, last) and Firm

First Name: BriLast Name: SalomeFirm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

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

Signature: Print Name: Bri SalomeFirm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.8	9.7	24.0	20.2	22.6	22.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8"	100.0		
#4	99.2		
#8	92.3		
#10	89.5		
#16	80.7		
#30	71.1		
#40	65.5		
#50	61.3		
#80	55.8		
#100	53.4		
#200	45.3		

\* (no specification provided)

## Material Description

Red-Brown Clayey Fine to Coarse Sand, Trace Gravel

## Atterberg Limits

PL= 17 LL= 39 PI= 22

## Coefficients

D<sub>90</sub>= 2.0573 D<sub>85</sub>= 1.5400 D<sub>60</sub>= 0.2629  
D<sub>50</sub>= 0.1138 D<sub>30</sub>= 0.0102 D<sub>15</sub>= 0.0014  
D<sub>10</sub>= C<sub>u</sub>= C<sub>c</sub>=

## Classification

USCS= SC AASHTO= A-6(6)

## Remarks

Sample Number: MW 118A S2 Depth: 18.5'-20'

Date: 8/30/23

**CGC, Inc.**

Client: SCS Engineers  
Project: Dane County Yahara Hills

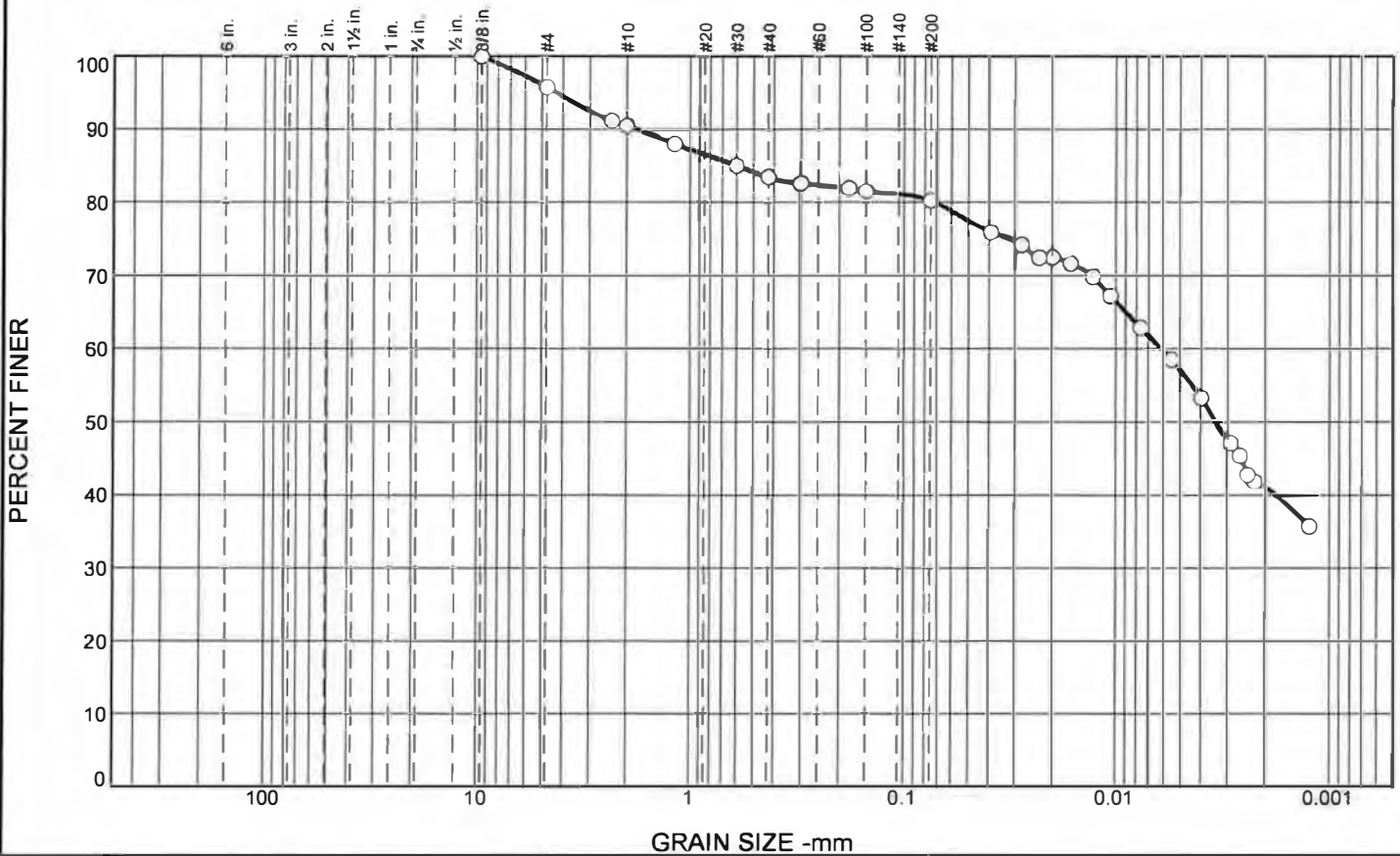
Project No: C22011-8

Figure

Tested By: JFS

Checked By: KJS

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.2	5.3	7.0	3.3	23.1	57.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8	100.0		
#4	95.8		
#8	91.2		
#10	90.5		
#16	88.0		
#30	85.0		
#40	83.5		
#50	82.6		
#80	81.9		
#100	81.6		
#200	80.2		

\* (no specification provided)

**Material Description**  
 Gray Fat Clay, Some Sand, Trace Gravel

**Atterberg Limits**  
 PL= 22      LL= 58      PI= 36

**Coefficients**  
 D<sub>90</sub>= 1.7706      D<sub>85</sub>= 0.6005      D<sub>60</sub>= 0.0061  
 D<sub>50</sub>= 0.0034      D<sub>30</sub>=      D<sub>15</sub>=  
 D<sub>10</sub>=      C<sub>u</sub>=      C<sub>c</sub>=

**Classification**  
 USCS= CH      AASHTO= A-7-6(30)

**Remarks**

Sample Number: MW 118A S6      Depth: 38.5'-40'

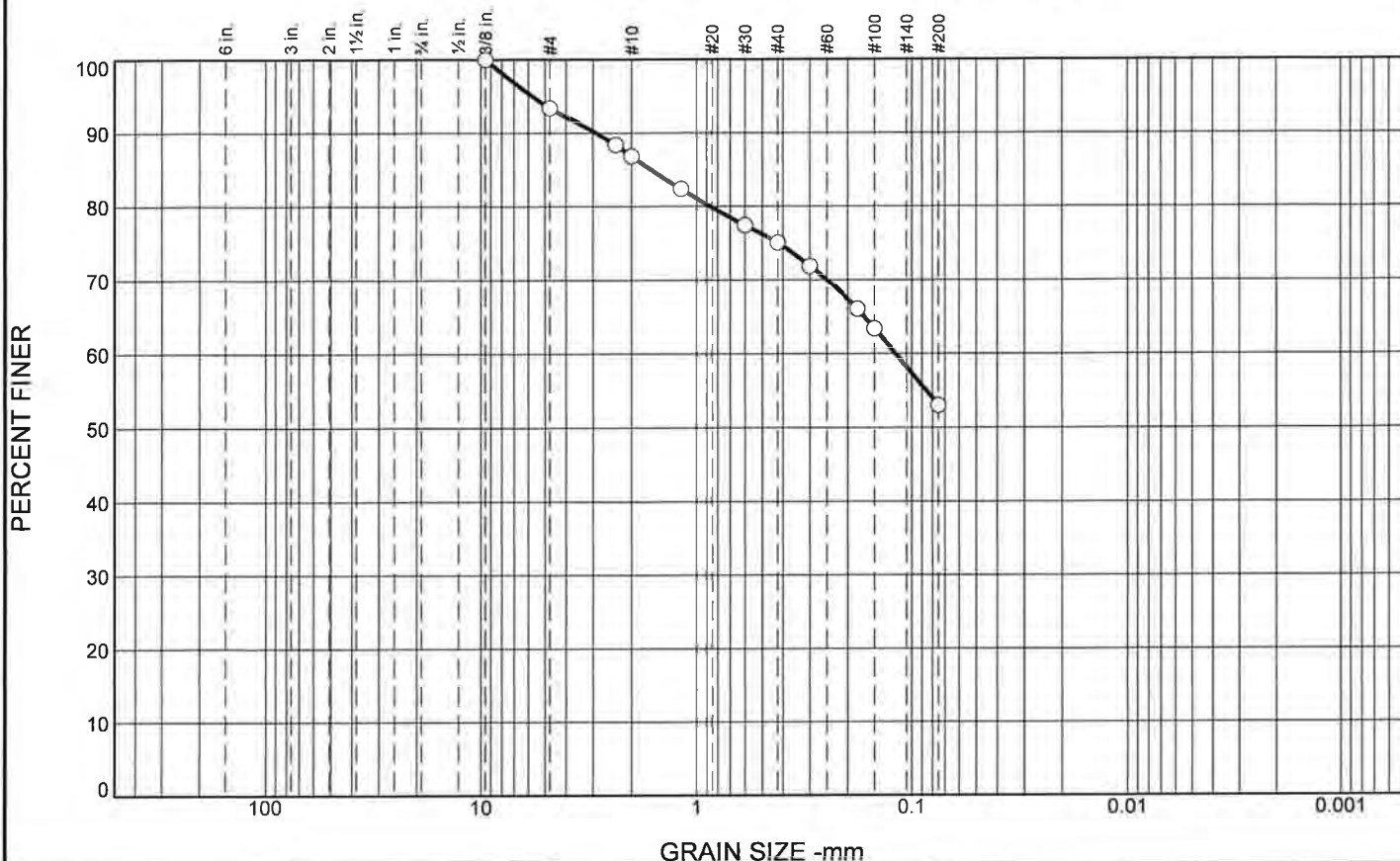
Date: 8/30/23

Client: SCS Engineers  
 Project: Dane County Yahara Hills  
 Project No: C22011-8

Figure

Tested By: JFS      Checked By: KJS

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	6.6	6.6	11.7	22.1	53.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8	100.0		
#4	93.4		
#8	88.4		
#10	86.8		
#16	82.4		
#30	77.4		
#40	75.1		
#50	71.8		
#80	66.0		
#100	63.4		
#200	53.0		

\* (no specification provided)

**Material Description**

White Sandy Silt to Sandy Clay, Little Gravel

**Atterberg Limits**

PL=      LL=      PI=

**Coefficients**

D<sub>90</sub>= 2.8950      D<sub>85</sub>= 1.6264      D<sub>60</sub>= 0.1197  
D<sub>50</sub>=      D<sub>30</sub>=      D<sub>15</sub>=  
D<sub>10</sub>=      C<sub>u</sub>=      C<sub>c</sub>=

**Classification**

USCS= ML/CL      AASHTO=

**Remarks**

Sample Number: MW118A S7

Depth: 43'-44'

Date: 3/27/23

**CGC, Inc.**

Client: SCS Engineers

Project: Dane County Yahara Hills

Project No: C22011-8

Figure

Tested By: JFS

Checked By: KJS

MW-119

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

Page 1 of 3

Facility/Project Name <b>Dane County Landfill No. 3 (Proposed) SCS#: 25222268.00</b>		License/Permit/Monitoring Number		Boring Number <b>MW-119</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Scott Klumb Soils &amp; Engineering Services, Inc.</b>		Date Drilling Started <b>1/27/2023</b>		Date Drilling Completed <b>1/27/2023</b>	
WI Unique Well No. <b>WD861</b>		DNR Well ID No. <b>--</b>		Common Well Name <b>MW-119</b>	
Final Static Water Level <b>--</b>		Surface Elevation <b>919.3 Feet MSL</b>		Borehole Diameter <b>6.0"</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/> State Plane <b>378,019 N, 2,169,756 E S/C/N</b> <b>SE 1/4 of SE 1/4 of Section 25, T 7 N, R 10 E</b>		Lat <b>° ' "</b> Long <b>° ' "</b>		Local Grid Location Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County <b>Dane</b>		County Code <b>13</b>	
				Civil Town/City/ or Village <b>City of Madison</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	14	23 34	1	ORGANIC SILT (OL), very dark grayish brown (10YR 3/2), with roots. (Topsoil)	ML									
			2	LEAN CLAY (CL), olive brown (2.5Y 4/4), some fine sand, soft, cohesive, uniform, massive, trace roots. (Loess)	CL				3.5	M				
			3	At 0.5' to 2.5', LEAN CLAY (CL) % g-s-si-cl = 0-6-49-45 LL=48, PI=24 K = 2.0 x 10-8 cm/sec										
S2	16	22 2	4	SILTY SAND (SM), yellowish brown (10YR 5/4), fine sand with medium to coarse sand, and fine to coarse gravel. (Outwash) (Holy Hill Formation)	SM					M				
			5											
S3	17	45 5	6											
			7	SILTY SAND (SM), brown (10YR 5/3), mostly fine sand with medium to coarse sand and some clay, fine to coarse gravel (mostly dolomite), uniform, massive. (Till) (Holy Hill Formation, Horicon Member)	SM					M				
S4	16	2132 374"	8											
			9	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 grained, with silt, massive. (Sandstone Bedrock) (SS2) (Ancell Group, St. Peter Formation, Tonti Member)						M+				
S5	9	1006"	10											
			11		SS2					M+				
S6	10	1004"	12											
			13											
			14							M				
			15											

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

Signature  Jackie Rennebohm, PG	Firm <b>SCS Engineers</b> 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 used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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

Boring Number **MW-119** Use only as an attachment to Form 4400-122. Page **2** of **3**

Sample			Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments																			
Number and Type	Length Att. & Recovered (in)	Standard Penetration								Moisture Content	Liquid Limit	Plasticity Index	P 200																					
S7	4	100/2"	16 17	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. (Sandstone Bedrock) (SS2) (Ansell Group, St. Peter Formation, Tonti Member)	SS2					M				Tougher drilling.																				
S8	7	100/2.25"	18 19 20 21 22													M																		
S9	3	100/2"	23 24 25 26 27																		M													
S10	1.5	100/1.5"	28 29 30 31																							M								
S11	6	100/5"	32 33 34 35 36 37																												M			
S12	6	100/5"	38 39 40																															
				Kh = 3.17E-03 cm/s At 38.5' to 40', SILTY SAND (SM) % g-s-si+cl = 1-85-15						Depth to water at ~36' bgs.																								

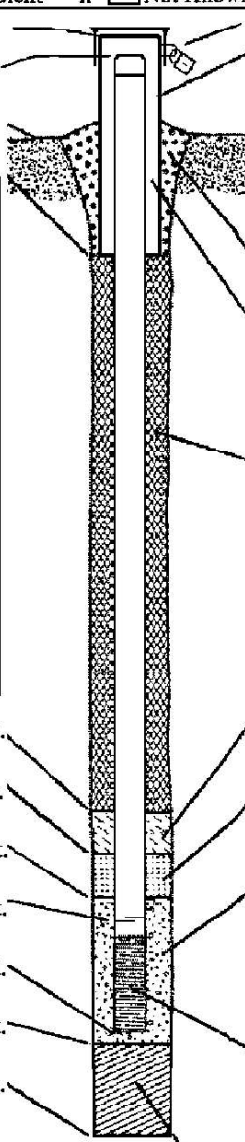


Driller noted different drilling at 47' bgs. Likely transition from the Tonti to the Readstown Member.

State of Wisconsin  
Department of Natural ResourcesRoute to: Watershed/Wastewater ☐ Waste Management ☒  
Remediation/Redevelopment ☐ Other ☐MONITORING WELL CONSTRUCTION  
Form 4400-113A Rev. 7-98

Facility/Project Name Dane County Landfill Site No. 3 (Proposed)		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name MW-119	
Facility License, Permit or Monitoring No. --		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. " Long. " or "		Wis. Unique Well No. <u>WD861</u> DNR Well ID No. <u>--</u>	
Facility ID --		St. Plane <u>378018.99</u> ft. N, <u>2169755.57</u> ft. E. S/C/N		Date Well Installed <u>01</u> / <u>27</u> / <u>2023</u> m m d d y y y y	
Type of Well Well Code <u>11</u> / MW		Section Location of Waste/Source SE <u>1/4</u> of SE <u>1/4</u> of Sec. <u>25</u> , T. <u>7</u> N, R. <u>10</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <u>Scott Klumb</u> <u>Soils &amp; Engineering Services, Inc.</u>	
Distance from Waste/Source <u>    </u> ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number <u>    </u>	
Enf. Stds. Apply <input checked="" type="checkbox"/>					

<p>A. Protective pipe, top elevation <u>    </u> <u>921.69</u> ft. MSL</p> <p>B. Well casing, top elevation <u>    </u> <u>921.70</u> ft. MSL</p> <p>C. Land surface elevation <u>    </u> <u>919.3</u> ft. MSL</p> <p>D. Surface seal, bottom <u>    </u> <u>887.3</u> ft. MSL or <u>    </u> <u>32</u> ft.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USCS classification of soil near screen:  GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/>  SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/>  Bedrock <input checked="" type="checkbox"/></p> <p>13. Sieve analysis performed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0  Hollow Stem Auger <input checked="" type="checkbox"/> 4 1  Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1  Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Describe <u>N/A</u></p> <p>17. Source of water (attach analysis, if required):  <u>N/A</u></p> </div> <p>E. Bentonite seal, top <u>    </u> <u>919.3</u> ft. MSL or <u>    </u> <u>0</u> ft.</p> <p>F. Fine sand, top <u>    </u> <u>887.3</u> ft. MSL or <u>    </u> <u>32</u> ft.</p> <p>G. Filter pack, top <u>    </u> <u>885.3</u> ft. MSL or <u>    </u> <u>34</u> ft.</p> <p>H. Screen joint, top <u>    </u> <u>883.3</u> ft. MSL or <u>    </u> <u>36</u> ft.</p> <p>I. Well bottom <u>    </u> <u>873.0</u> ft. MSL or <u>    </u> <u>46.3</u> ft.</p> <p>J. Filter pack, bottom <u>    </u> <u>871.3</u> ft. MSL or <u>    </u> <u>48</u> ft.</p> <p>K. Borehole, bottom <u>    </u> <u>871.3</u> ft. MSL or <u>    </u> <u>48</u> ft.</p> <p>L. Borehole, diameter <u>    </u> <u>6.0</u> in.</p> <p>M. O.D. well casing <u>    </u> <u>2.38</u> in.</p> <p>N. I.D. well casing <u>    </u> <u>2.07</u> in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe:  a. Inside diameter: <u>    </u> <u>4</u> in.  b. Length: <u>    </u> <u>5</u> ft.  c. Material: Steel <input checked="" type="checkbox"/> 0 4  Other <input type="checkbox"/>  d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If yes, describe: <u>    </u></p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0  Concrete <input type="checkbox"/> 0 1  Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe:  Filter Sand Bentonite <input type="checkbox"/> 3 0  Other <input checked="" type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3  b. <u>    </u> Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5  c. <u>    </u> Lbs/gal mud weight . . . . . Bentonite slurry <input type="checkbox"/> 3 1  d. <u>    </u> % Bentonite . . . . . Bentonite-cement grout <input type="checkbox"/> 5 0  e. <u>16.6</u> Ft<sup>3</sup> volume added for any of the above  f. How installed: Tremie <input type="checkbox"/> 0 1  Tremie pumped <input type="checkbox"/> 0 2  Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3  b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2  c. <u>    </u> Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name &amp; mesh size  a. <u>Red Flint #15</u> <input checked="" type="checkbox"/>  b. Volume added <u>    </u> <u>0.5</u> ft<sup>3</sup></p> <p>8. Filter pack material: Manufacturer, product name &amp; mesh size  a. <u>Red Flint #40</u> <input checked="" type="checkbox"/>  b. Volume added <u>    </u> <u>2.0</u> ft<sup>3</sup></p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3  Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4  Other <input type="checkbox"/></p> <p>10. Screen material: <u>Sch. 40 PVC</u>  a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1  Continuous slot <input type="checkbox"/> 0 1  Other <input type="checkbox"/>  b. Manufacturer <u>Campbell (Monoflex)</u>  c. Slot size: <u>    </u> <u>0.01</u> in.  d. Slotted length: <u>    </u> <u>10</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4  Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature



Firm

SCS ENGINEERS, 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 ResourcesMONITORING WELL DEVELOPMENT  
Form 4400-113B Rev. 7-98Route to: Watershed/Wastewater ☐Waste Management ☒Remediation/Redevelopment ☐Other ☐

Facility/Project Name Dane County Landfill No. 3 (Proposed)	County Name Dane	Well Name MW-119
Facility License, Permit or Monitoring Number --	County Code 13	Wis. Unique Well Number WD861
		DNR Well ID Number --

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☐ 4 1  
 surged with bailer and pumped ☒ 6 1  
 surged with block and bailed ☐ 4 2  
 surged with block and pumped ☐ 6 2  
 surged with block, bailed and pumped ☐ 7 0  
 compressed air ☐ 2 0  
 bailed only ☐ 1 0  
 pumped only ☐ 5 1  
 pumped slowly ☐ 5 0  
 Other ☐

3. Time spent developing well 60 min.4. Depth of well (from top of well casing) 48.6 ft.5. Inside diameter of well 2.07 in.6. Volume of water in filter pack and well casing 10.0 gal.7. Volume of water removed from well 13.0 gal.8. Volume of water added (if any) 0.0 gal.9. Source of water added NA10. Analysis performed on water added? ☐ Yes ☒ No  
(If yes, attach results)

17. Additional comments on development:

- Surge/purge 30 min
- Removed 5 gallons w/ bailer
- Pumped dry 3 times with Grundfoss for total of: 8 gallons removed by pumping
- 10 well volumes: 100 gallons
- Sample at 1035

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>37</u> <u>74</u> ft.	<u>39</u> <u>07</u> ft.
Date	b. <u>02</u> / <u>02</u> / <u>2023</u> m m d d y y y y	<u>02</u> / <u>02</u> / <u>2023</u> m m d d y y y y
Time	c. <u>9</u> : <u>30</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>10</u> : <u>30</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>6</u> <u>0</u> inches	<u>5</u> <u>0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) light brown no odor	Clear <input type="checkbox"/> 2 0 Turbid <input checked="" type="checkbox"/> 2 5 (Describe) light brown no odor
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	<u>4,500.0</u> mg/l	<u>0</u> mg/l
15. COD	<u>0</u> mg/l	<u>0</u> mg/l
16. Well developed by: Name (first, last) and Firm		
First Name: Ethan Last Name: Schaefer		
Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718		

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Allison Last Name: Rathack

Facility/Firm: Dane County Dpt. of Waste &amp; Renewables

Street: 1919 Alliant Energy Center Way

City/State/Zip: Madison, WI 53713

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

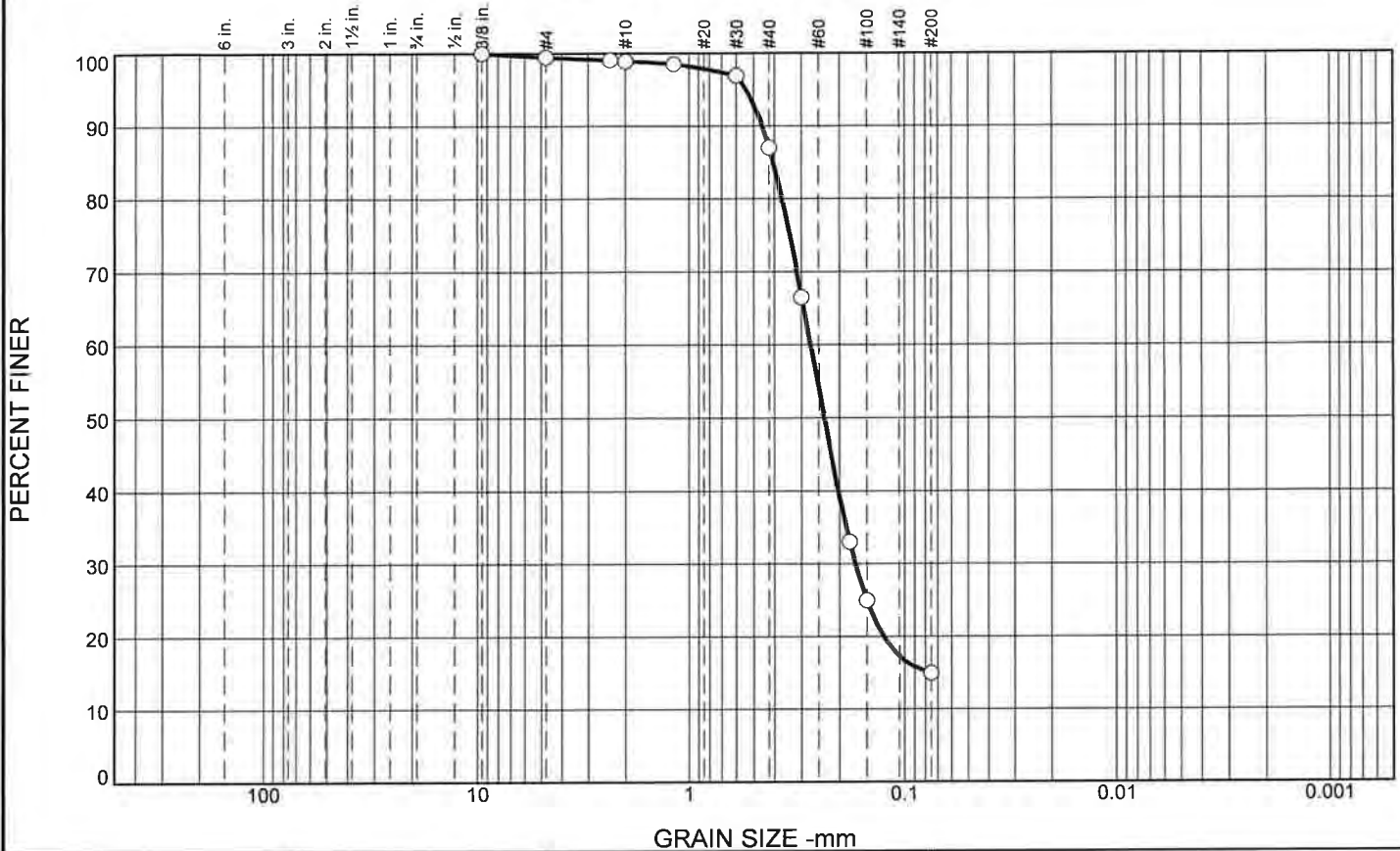
Signature: Ethan Schaefer

Print Name: Ethan Schaefer

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.

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.5	0.6	11.9	72.0	15.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8	100.0		
#4	99.5		
#8	99.0		
#10	98.9		
#16	98.5		
#30	96.9		
#40	87.0		
#50	66.5		
#80	33.0		
#100	25.0		
#200	15.0		

\* (no specification provided)

**Material Description**  
Light Brown Fine to Medium Sand, Some Silt, Trace Gravel

**Atterberg Limits**  
PL= NP      LL= NP      PI= NP

**Coefficients**  
D<sub>90</sub>= 0.4573      D<sub>85</sub>= 0.4073      D<sub>60</sub>= 0.2732  
D<sub>50</sub>= 0.2367      D<sub>30</sub>= 0.1694      D<sub>15</sub>= 0.0756  
D<sub>10</sub>=      C<sub>u</sub>=      C<sub>c</sub>=

**Classification**  
USCS= SM      AASHTO= A-2-4(0)

**Remarks**

Sample Number: MW119

Depth: 38.5'-40'

Date: 3/16/23

**CGC, Inc.**

Client: SCS Engineers

Project: Dane County Yahara Hills

Project No: C22011-8

Figure

Tested By: JFS


Checked By: KJS

ST-119


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

Page 1 of 1

Facility/Project Name Dane County Landfill No. 3 (Proposed) SCS#: 25222268.00		License/Permit/Monitoring Number		Boring Number ST-119	
Boring Drilled By: Name of crew chief (first, last) and Firm Scott Klumb Soils & Engineering Services, Inc.		Date Drilling Started 3/8/2023		Date Drilling Completed 3/8/2023	
Drilling Method SSA					
WI Unique Well No. --	DNR Well ID No. --	Common Well Name --	Final Static Water Level --	Surface Elevation 919.3 Feet MSL	Borehole Diameter 4.3"
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/> State Plane 378,019 N, 2,169,756 E S/C/N SE 1/4 of SE 1/4 of Section 25, T 7 N, R 10 E		Lat _____ ° _____ ' _____ " _____" Long _____ ° _____ ' _____ " _____"		Local Grid Location Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Dane	County Code 13	Civil Town/City/ or Village City of Madison	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	17		1 2	Blind drilled to 0.5' bgs. (See MW-119 log for lithology from 0' to 49' bgs.) LEAN CLAY, dark yellowish brown (10YR 4/4), mostly silt with clay, some fine sand, soft, cohesive, uniform, massive, trace roots. (Loess)  At 0.5' to 2.5', LEAN CLAY (CL) % g-s-si-cl = 0-6-49-45 LL=48, PI=24 End of boring at 2' bgs in loess. Abandoned with bentonite chips.	CL				2.25	M				Shelby tube sample from 0.5 to 3 feet bgs.

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

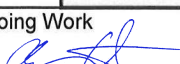
Signature 	Firm SCS Engineers 2830 Dairy Drive, Madison, WI 53718
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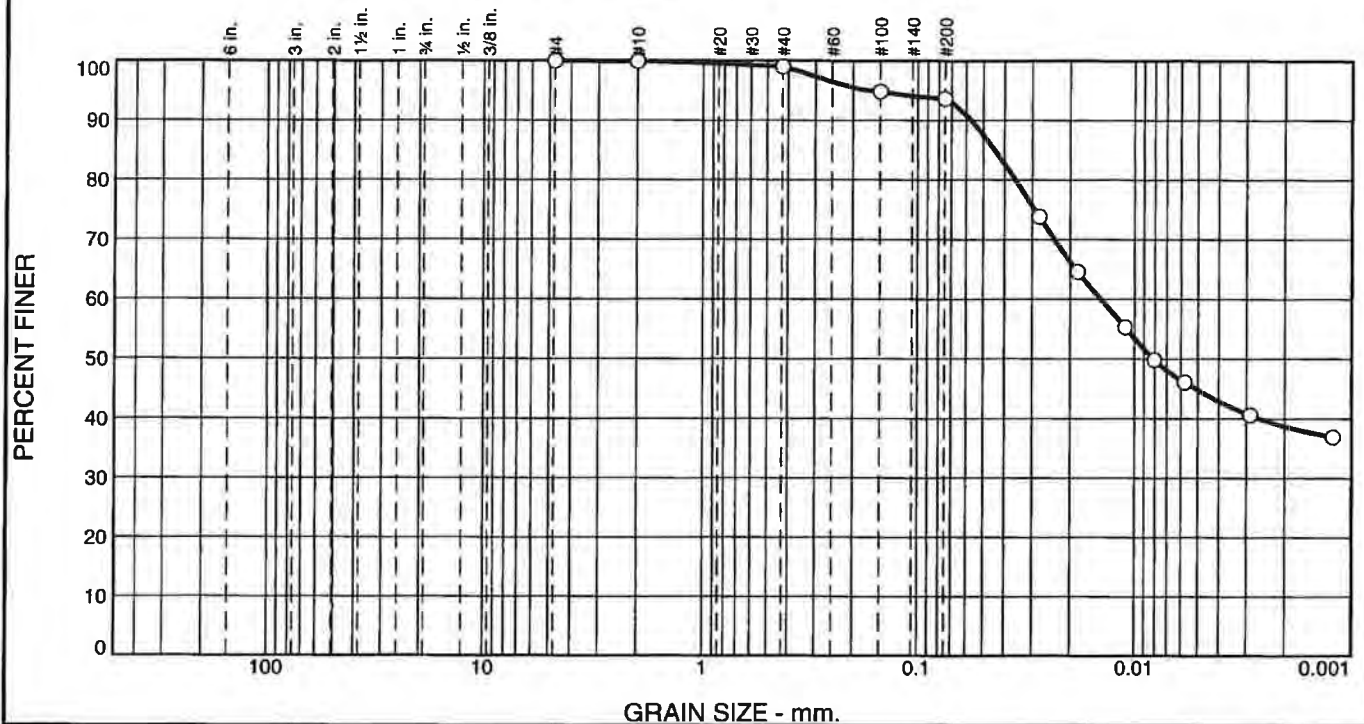
**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal****Route to DNR Bureau:**☐ Drinking Water☐ Watershed/Wastewater☐ Remediation/Redevelopment☒ Waste Management☐ Other: \_\_\_\_\_

1. Well Location Information				2. Facility / Owner Information			
County <b>Dane</b>		WI Unique Well # of Removed Well _____		Hicap # <b>ST-119</b>		Facility Name <b>Dane County Landfill No.3 (Proposed)</b>	
Latitude / Longitude (see instructions) _____ N _____ W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS) _____	
1/4 1/4 SE or Gov't Lot #		Section <b>25</b>		Township <b>7 N</b>		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address <b>7101 US Highway 12 &amp; 18</b>				Original Well Owner <b>Dane County Department of Waste and Renewables</b>			
Well City, Village or Town <b>Madison, WI</b>				Present Well Owner <b>Dane County Department of Waste and Renewables</b>			
Subdivision Name _____				Mailing Address of Present Owner <b>1919 Alliant Energy Center Way</b>			
Reason for Removal from Service <b>Temporary Borehole</b>				City of Present Owner <b>Madison</b>			
WI Unique Well # of Replacement Well _____				State <b>WI</b>			
3. Filled & Sealed Well / Drillhole / Borehole Information				ZIP Code <b>53713</b>			
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) <b>03/08/2023</b>		4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach. _____		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Borehole / Drillhole				Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Construction Type:				Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Other (specify): _____				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Formation Type:				Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Total Well Depth From Ground Surface (ft.) <b>2.5</b>		Casing Diameter (in.) <b>NA</b>		Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Lower Drillhole Diameter (in.) <b>4.3</b>		Casing Depth (ft.) <b>NA</b>		If yes, was hole retopped? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown				If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
If yes, to what depth (feet)? <b>NA</b>		Depth to Water (feet) <b>~38</b>		Required Method of Placing Sealing Material			
5. Material Used to Fill Well / Drillhole				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
From (ft.) <b>Surface</b>		To (ft.) <b>2.5</b>		<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			
No. Yards, Sacks Sealant or Volume (circle one) <b>7 lbs</b>		Sealing Materials					
Mix Ratio or Mud Weight <b>dry mix</b>		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Bentonite Grout					
		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips					
		For Monitoring Wells and Monitoring Well Boreholes Only:					
		<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout					
		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry					
6. Comments <b>Shelby Tube ST-119</b>							
7. Supervision of Work				DNR Use Only			
Name of Person or Firm Doing Filling & Sealing <b>Soils &amp; Engineering Services, Inc</b>		License # _____		Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>03/08/2023</b>		Date Received _____	
Street or Route <b>1102 Stewart St.</b>		Telephone Number <b>( 608 )274-7600</b>		Comments _____		Noted By _____	
City <b>Madison</b>		State <b>WI</b>		ZIP Code <b>53713</b>		Signature of Person Doing Work 	
						Date Signed <b>03/08/2023</b>	



# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.1	0.9	5.4	48.8	44.8

Test Results (ASTM D6913 & ASTM D1140)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
#4	100.0		
#10	99.9		
#40	99.0		
#100	94.9		
#200	93.6		
0.0279 mm.	73.8		
0.0184 mm.	64.6		
0.0111 mm.	55.3		
0.0080 mm.	49.8		
0.0058 mm.	46.1		
0.0029 mm.	40.6		
0.0012 mm.	36.9		

\* (no specification provided)

## Material Description

LEAN CLAY, brown

## Atterberg Limits (ASTM D 4318)

PL= 24 LL= 48 PI= 24

## Classification

USCS (D 2487)= CL AASHTO (M 145)= A-7-6(25)

## Coefficients

D<sub>90</sub>= 0.0570 D<sub>85</sub>= 0.0444 D<sub>60</sub>= 0.0144  
D<sub>50</sub>= 0.0081 D<sub>30</sub>= D<sub>15</sub>=  
D<sub>10</sub>= C<sub>u</sub>= C<sub>c</sub>=

## Remarks

Munsell Color Code: 10YR 4/3

Date Received: 3/27/2023 Date Tested: 3/29/2023

Tested By: MRG

Checked By: RJP

Title: Eng. Project Manager

Source of Sample: ST-Soil Borings  
Sample Number: ST-119

Depth: 0.5'-2.5'

Date Sampled: 3/23/2023

**Tetra Tech**  
**2679 Continental Drive**  
**Green Bay, WI 54311**

Client: CGC, Inc.  
Project: Dane County - Yahara Hills

Project No: SCS #25222268.00

Figure

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

Tetra Tech  
2679 Continental Dr.  
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

SUMMARY OF TEST RESULTS

Sample No.: ST-119  
Location: S-1 @ 0.5'-2.5'  
Soil Classification: LEAN CLAY, brown (CL)  
Munsell Color Code: 10YR 4/3

	<u>INITIAL</u>	<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	103.06634
HYDRAULIC CONDUCTIVITY k (cm/sec)		1.96E-08

Tested By: Robert J Peeters

Reviewed By: *Robert R. Ponce*

Date Reviewed: *4/7/23*

MW-120

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

Page 1 of 2

Facility/Project Name <b>Dane County Landfill No. 3 (Proposed)</b> SCS#: 25222268.00		License/Permit/Monitoring Number		Boring Number <b>MW-120</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Scott Klumb Soils &amp; Engineering Services, Inc.</b>		Date Drilling Started <b>1/20/2023</b>		Date Drilling Completed <b>1/20/2023</b>	
Drilling Method <b>HSA, 4.25" ID</b>					
WI Unique Well No. <b>WD844</b>	DNR Well ID No. <b>--</b>	Common Well Name <b>MW-120</b>	Final Static Water Level <b>902.5 Feet MSL</b>	Surface Elevation <b>907.2 Feet MSL</b>	Borehole Diameter <b>8.3"</b>
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/> State Plane <b>377,642 N, 2,167,842 E S/C/N</b>		Lat <b>° ' "</b> Long <b>° ' "</b>		Local Grid Location Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of NE 1/4 of Section 36, T 7 N, R 10 E					
Facility ID		County <b>Dane</b>	County Code <b>13</b>	Civil Town/City/ or Village <b>City of Madison</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	24	24 42	1	SILT (ML), very dark grayish brown (10YR 3/2), organic rich, with roots. (Topsoil)	ML									
				LEAN CLAY (CL), reddish brown (5YR 4/3), mostly silt with clay, some fine sand, soft, cohesive, uniform, massive, trace roots. (Loess)	CL				1.0	M				
S2	18	21 2	2	SILTY SAND, reddish brown (5YR 4/3), mostly fine sand with medium to coarse sand and some clay, fine to coarse gravel (mostly dolomite), uniform, massive. (Till) (Holy Hill Formation, Horicon Member)										
				Same as above but strong brown (7.5YR 5/6).						W				
S3	18	97 6	3											
				Kh = 2.37E-04 cm/s	SM									
S4	14	68 9	4											
									0.75 1.0	W				
S5	18	57 8	5	At 11' to 12.5', SILTY SAND (SM) % g-s-si-cl = 15-59-15-12										
									1.0	W				
S6	18	33 1	6											
										W				



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

Signature 	Firm <b>SCS Engineers</b> 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 used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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

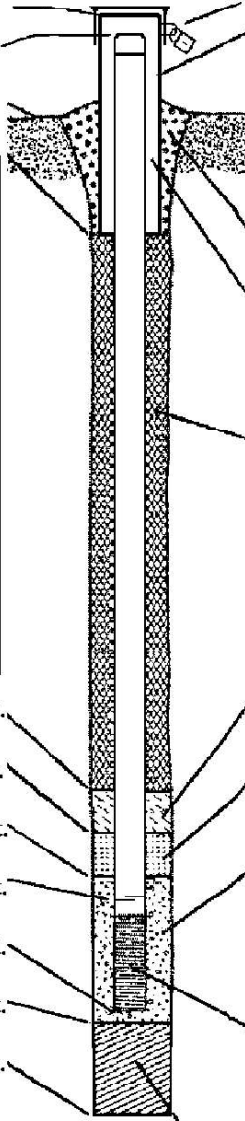
Boring Number **MW-120** Use only as an attachment to Form 4400-122. Page **2** of **2**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			16	<p>SILTY SAND (SM), strong brown (7.5YR 5/6), mostly fine sand with medium to coarse sand and some clay, fine to coarse gravel (mostly dolomite), uniform, massive. (Till) (Holy Hill Formation, Horicon Member)</p> <p>End of boring at 16' bgs in till. Constructed well from 15.3' bgs.</p>	SM									

State of Wisconsin  
Department of Natural ResourcesRoute to: Watershed/Wastewater ☐ Waste Management ☒  
Remediation/Redevelopment ☐ Other ☐MONITORING WELL CONSTRUCTION  
Form 4400-113A Rev. 7-98

Facility/Project Name Dane County Landfill Site No. 3 (Proposed)		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name MW-120	
Facility License, Permit or Monitoring No. --		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. " Long. " or "		Wis. Unique Well No. WD844 DNR Well ID No. --	
Facility ID --		St. Plane 377642.07 ft. N, 2167842.43 ft. E. S/C/N		Date Well Installed 01 / 20 / 2023 m m d d y y y y	
Type of Well Well Code 11 / MW		Section Location of Waste/Source NW 1/4 of NE 1/4 of Sec. 36, T. 7 N, R. 10 E W		Well Installed By: Name (first, last) and Firm Scott Klumb	
Distance from Waste/Source <input type="checkbox"/> ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	
Enf. Stds. Apply <input checked="" type="checkbox"/>		Soils & Engineering Services, Inc.			

<p>A. Protective pipe, top elevation --- 919.94 ft. MSL</p> <p>B. Well casing, top elevation --- 909.91 ft. MSL</p> <p>C. Land surface elevation --- 907.2 ft. MSL</p> <p>D. Surface seal, bottom --- 903.2 ft. MSL or --- 4 ft.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USCS classification of soil near screen:</p> <p>GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/>  SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/>  Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0  Hollow Stem Auger <input checked="" type="checkbox"/> 4 1  Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1  Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe N/A</p> <p>17. Source of water (attach analysis, if required):  N/A</p> </div> <p>E. Bentonite seal, top --- 907.2 ft. MSL or --- 0 ft.</p> <p>F. Fine sand, top --- 903.2 ft. MSL or --- 4 ft.</p> <p>G. Filter pack, top --- 902.7 ft. MSL or --- 4.5 ft.</p> <p>H. Screen joint, top --- 902.2 ft. MSL or --- 5 ft.</p> <p>I. Well bottom --- 891.9 ft. MSL or --- 15.3 ft.</p> <p>J. Filter pack, bottom --- 891.2 ft. MSL or --- 16 ft.</p> <p>K. Borehole, bottom --- 891.2 ft. MSL or --- 16 ft.</p> <p>L. Borehole, diameter --- 8.3 in.</p> <p>M. O.D. well casing --- 2.38 in.</p> <p>N. I.D. well casing --- 2.07 in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe:  a. Inside diameter: --- 4 in.  b. Length: --- 5 ft.  c. Material: Steel <input checked="" type="checkbox"/> 0 4  Other <input type="checkbox"/>  d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If yes, describe: ---</p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0  Concrete <input type="checkbox"/> 0 1  Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe:  Bentonite <input type="checkbox"/> 3 0  Filter Sand <input checked="" type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3  b. --- Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 3 5  c. --- Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 3 1  d. --- % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 5 0  e. 2.07 Ft<sup>3</sup> volume added for any of the above  f. How installed: Tremie <input type="checkbox"/> 0 1  Tremie pumped <input type="checkbox"/> 0 2  Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3  b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2  c. --- Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name &amp; mesh size  a. Red Flint #15 <input checked="" type="checkbox"/>  b. Volume added 0.15 ft<sup>3</sup></p> <p>8. Filter pack material: Manufacturer, product name &amp; mesh size  a. Red Flint #40 <input checked="" type="checkbox"/>  b. Volume added 1.5 ft<sup>3</sup></p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3  Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4  Other <input type="checkbox"/></p> <p>10. Screen material: Sch. 40 PVC  a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1  Continuous slot <input type="checkbox"/> 0 1  Other <input type="checkbox"/>  b. Manufacturer Campbell (Monoflex)  c. Slot size: 0.01 in.  d. Slotted length: 10 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4  Other <input type="checkbox"/></p>
---	---

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

Signature

Firm

SCS ENGINEERS, 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. 7-98Route to: Watershed/Wastewater ☐Waste Management ☒Remediation/Redevelopment ☐Other ☐

Facility/Project Name Dane County Landfill No. 3 (Proposed)	County Name Dane	Well Name MW-120
Facility License, Permit or Monitoring Number --	County Code 13	Wis. Unique Well Number WD844
		DNR Well ID Number --

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☐ 4 1  
 surged with bailer and pumped ☒ 6 1  
 surged with block and bailed ☐ 4 2  
 surged with block and pumped ☐ 6 2  
 surged with block, bailed and pumped ☐ 7 0  
 compressed air ☐ 2 0  
 bailed only ☐ 1 0  
 pumped only ☐ 5 1  
 pumped slowly ☐ 5 0  
 Other ☐

3. Time spent developing well 125 min.4. Depth of well (from top of well casing) 18.0 ft.5. Inside diameter of well 2.07 in.6. Volume of water in filter pack and well casing 9.7 gal.7. Volume of water removed from well 50.0 gal.8. Volume of water added (if any) 0.0 gal.9. Source of water added NA10. Analysis performed on water added? ☐ Yes ☒ No  
(If yes, attach results)

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>7.47</u> ft.	<u>11.07</u> ft.
Date	b. <u>02</u> / <u>01</u> / <u>2023</u> m m d d y y y y	<u>02</u> / <u>01</u> / <u>2023</u> m m d d y y y y
Time	c. <u>9:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>11:05</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>1.0</u> inches	<u>1.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>med brown</u> <u>no odor</u>	Clear <input type="checkbox"/> 2 0 Turbid <input checked="" type="checkbox"/> 2 5 (Describe) <u>slight turbidity almost clear</u> <u>no odor</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	<u>241.0</u> mg/l	
15. COD	<u>-</u> mg/l	
16. Well developed by: Name (first, last) and Firm		
First Name: <u>Ethan</u> Last Name: <u>Schaefer</u>		
Firm: <u>SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718</u>		

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Allison Last Name: RathsackFacility/Firm: Dane County Dpt. of Waste & RenewablesStreet: 1919 Alliant Energy Center WayCity/State/Zip: Madison, WI 53713

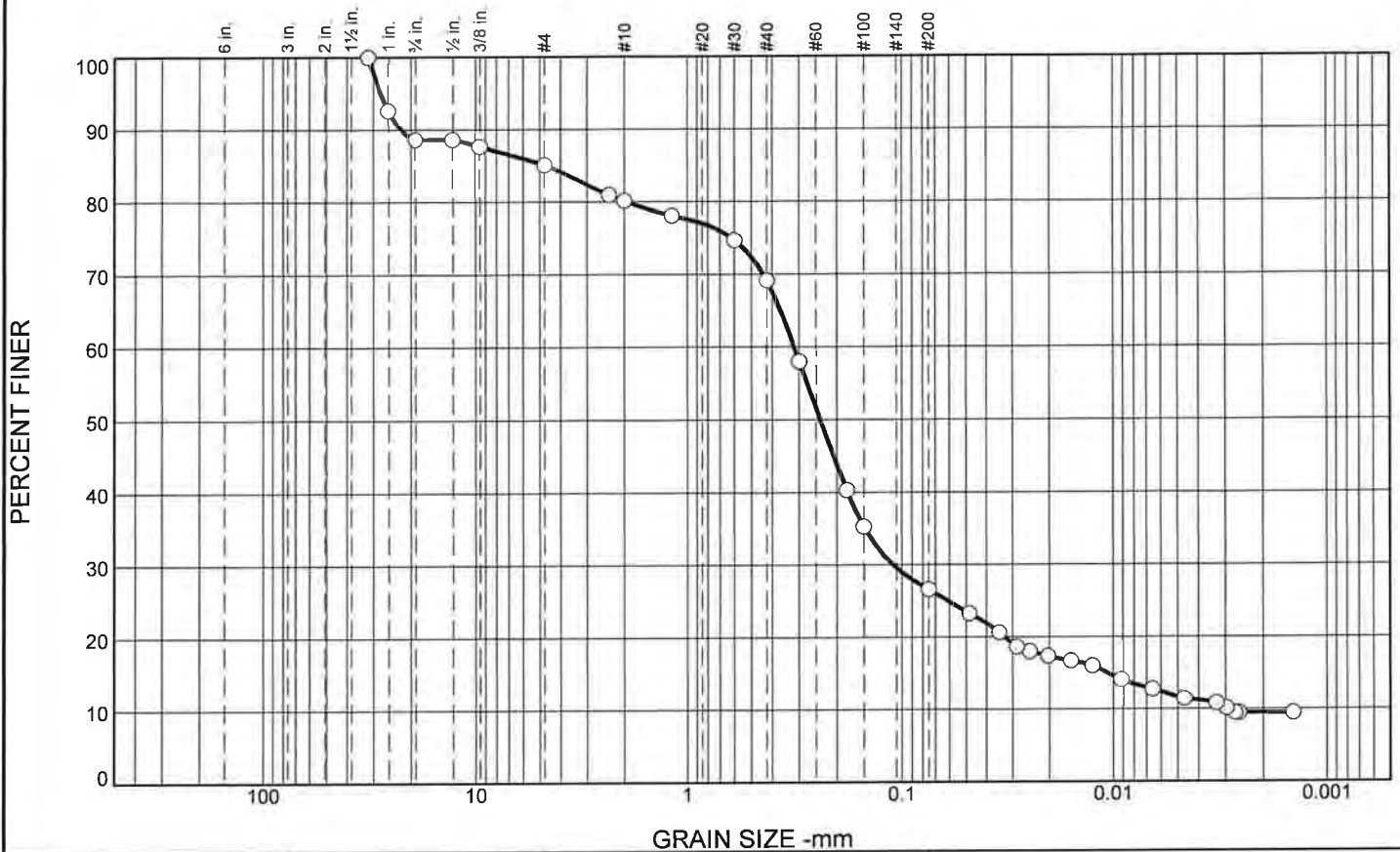
I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Ethan SchaeferPrint Name: Ethan SchaeferFirm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

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



# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	11.4	3.5	5.0	11.0	42.5	14.9	11.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/4	100.0		
1	92.6		
3/4	88.6		
1/2	88.6		
3/8	87.7		
#4	85.1		
#8	81.0		
#10	80.1		
#16	78.1		
#30	74.7		
#40	69.1		
#50	58.0		
#80	40.3		
#100	35.3		
#200	26.6		

\* (no specification provided)

## Material Description

Brown Fine to Coarse Sand, Some Silt and Gravel

## Atterberg Limits

PL= NP

LL= NP

PI= NP

## Coefficients

D<sub>90</sub>= 22.2554

D<sub>85</sub>= 4.6953

D<sub>60</sub>= 0.3172

D<sub>50</sub>= 0.2402

D<sub>30</sub>= 0.1103

D<sub>15</sub>= 0.0106

D<sub>10</sub>= 0.0029

C<sub>u</sub>= 108.91

C<sub>c</sub>= 13.18

## Classification

USCS= SM

AASHTO= A-2-4(0)

## Remarks

NP= Non-Plastic

Sample Number: MW120

Depth: 11'-12.5'

Date: 3/21/23

**CGC, Inc.**

Client: SCS Engineers

Project: Dane County Yahara Hills

Project No: C22011-8

Figure

Tested By: JFS

Checked By: KJS

MW-120A


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

Page 1 of 3

Facility/Project Name Dane County Landfill No. 3 (Proposed) SCS#: 25222268.00		License/Permit/Monitoring Number		Boring Number MW-120A	
Boring Drilled By: Name of crew chief (first, last) and Firm Scott Klumb Soils & Engineering Services, Inc.		Date Drilling Started 2/7/2023		Date Drilling Completed 3/2/2023	
Drilling Method HSA, 4.25" ID & Air Rotary					
WI Unique Well No. WD867	DNR Well ID No. --	Common Well Name MW-120A	Final Static Water Level --	Surface Elevation 907.3 Feet MSL	Borehole Diameter 8.3" & 6"
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/> State Plane 377,643 N, 2,167,838 E S/C/N NW 1/4 of NE 1/4 of Section 36, T 7 N, R 10 E		Lat _____ ° _____ ' _____ " _____ " Long _____ ° _____ ' _____ " _____ "		Local Grid Location Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Dane	County Code 13	Civil Town/City/ or Village City of Madison	

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1	Blind drilled to 18.5' bgs. (See MW-120 log for lithology from 0' to 15' bgs.) Cored hole from 19.5' to 50.5' bgs on 2/7/2023. Reamed hole to 6" diameter with air rotary on 3/2/2023 and set well MW-120A to 49.3' bgs.										
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											
			13											
			14											
			15											













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

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

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

Boring Number **MW-120A** Use only as an attachment to Form 4400-122. Page **2** of **3**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			16	Blind drilled to 18.5' bgs. (See MW-120 log for lithology from 0' to 15' bgs.) Cored hole from 19.5' to 50.5' bgs on 2/7/2023. Reamed hole to 6" diameter with air rotary on 3/2/2023 and set well MW-120A to 49.3' bgs.										
			17											
			18											
S1	2 11/2" 60/4"		19	SILTY SAND WITH GRAVEL (SM), brownish yellow (10YR 6/8), fine to medium grained, with fine to coarse gravel (mostly dolomite), with green (glauconite) silt. (Weathered Dolomite Bedrock) (Prairie du Chien Group, Oneota Formation)	SM									
			20											
Run 1	41.5		21	DOLOMITE (DL4), light gray (10YR 7/1) and yellow (10YR 7/6), massive to planar bedded, sandy, with chert, trace glauconite, round to oval vugs, and dendrites. (Prairie du Chien Group, Oneota Formation)										
			22											
			23											
			24											
			25											
			26											
Run 2	55		27	From 26.5' to 27.5' bgs, massive with abundant dendrites and no sand.										
			28											
			29											
			30		DL4									
			31											
			32											
			33											
			34											
Run 3	82		35											
			36											
			37											
			38											
			39											
			40											

FF=1.36/ft  
Percent  
Recovery=73.5%  
RQD=32.5%,  
poor Bit drop at  
21' bgs.

FF=0.87/ft  
Percent  
Recovery=89%  
RQD=48%, poor

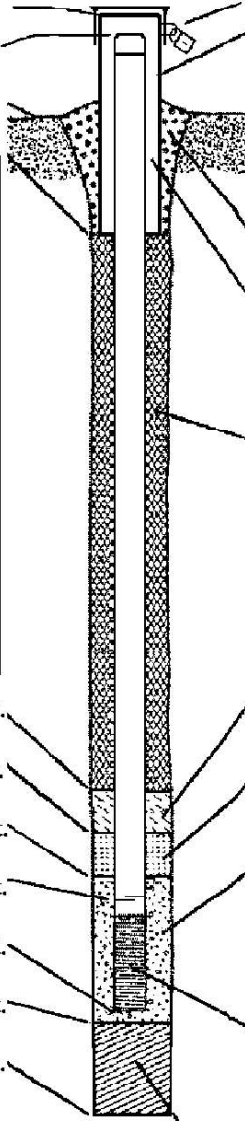
FF=1.17/ft  
Percent  
Recovery=85%  
RQD=63.5%,  
fair



State of Wisconsin  
Department of Natural ResourcesRoute to: Watershed/Wastewater ☐ Waste Management ☒  
Remediation/Redevelopment ☐ Other ☐MONITORING WELL CONSTRUCTION  
Form 4400-113A Rev. 7-98

Facility/Project Name Dane County Landfill Site No. 3 (Proposed)		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name MW-120A	
Facility License, Permit or Monitoring No. --		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. " Long. " or "		Wis. Unique Well No. <u>WD867</u> DNR Well ID No. <u>--</u>	
Facility ID --		St. Plane <u>377643.38</u> ft. N, <u>2167837.94</u> ft. E. S/C/N		Date Well Installed <u>03</u> / <u>02</u> / <u>2023</u> m m d d y y y y	
Type of Well Well Code <u>12</u> / <u>PZ</u>		Section Location of Waste/Source NW <u>1/4</u> of NE <u>1/4</u> of Sec. <u>36</u> , T. <u>7</u> N, R. <u>10</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <u>Scott Klumb</u>	
Distance from Waste/Source <u>    </u> ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number <u>    </u>	
Enf. Stds. Apply <input checked="" type="checkbox"/>				Soils & Engineering Services, Inc.	

<p>A. Protective pipe, top elevation <u>909.78</u> ft. MSL</p> <p>B. Well casing, top elevation <u>909.81</u> ft. MSL</p> <p>C. Land surface elevation <u>907.3</u> ft. MSL</p> <p>D. Surface seal, bottom <u>868.3</u> ft. MSL or <u>39</u> ft.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USCS classification of soil near screen:</p> <p>GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/>  SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/>  Bedrock <input checked="" type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input checked="" type="checkbox"/> 5 0  Hollow Stem Auger <input type="checkbox"/> 4 1  Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input checked="" type="checkbox"/> 0 1  Drilling Mud <input type="checkbox"/> 0 3 None <input type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe <u>N/A</u></p> <p>17. Source of water (attach analysis, if required):  <u>N/A</u></p> </div> <p>E. Bentonite seal, top <u>907.3</u> ft. MSL or <u>0</u> ft.</p> <p>F. Fine sand, top <u>868.3</u> ft. MSL or <u>39</u> ft.</p> <p>G. Filter pack, top <u>865.3</u> ft. MSL or <u>42</u> ft.</p> <p>H. Screen joint, top <u>863.3</u> ft. MSL or <u>44</u> ft.</p> <p>I. Well bottom <u>858.0</u> ft. MSL or <u>49.3</u> ft.</p> <p>J. Filter pack, bottom <u>856.8</u> ft. MSL or <u>50.5</u> ft.</p> <p>K. Borehole, bottom <u>856.8</u> ft. MSL or <u>50.5</u> ft.</p> <p>L. Borehole, diameter <u>6.0</u> in.</p> <p>M. O.D. well casing <u>2.38</u> in.</p> <p>N. I.D. well casing <u>2.07</u> in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe:  a. Inside diameter: <u>4</u> in.  b. Length: <u>5</u> ft.  c. Material: Steel <input checked="" type="checkbox"/> 0 4  Other <input type="checkbox"/>  d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If yes, describe: <u>    </u></p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0  Concrete <input type="checkbox"/> 0 1  Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe:  Bentonite <input type="checkbox"/> 3 0  Filter Sand <input checked="" type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3  b. <u>2:1</u> Lbs/gal mud weight . . . Bentonite-sand slurry <input checked="" type="checkbox"/> 3 5  c. <u>    </u> Lbs/gal mud weight . . . . . Bentonite slurry <input type="checkbox"/> 3 1  d. <u>    </u> % Bentonite . . . . . Bentonite-cement grout <input type="checkbox"/> 5 0  e. <u>15.5</u> Ft<sup>3</sup> volume added for any of the above  f. How installed: Tremie <input type="checkbox"/> 0 1  Tremie pumped <input checked="" type="checkbox"/> 0 2  Gravity <input type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3  b. <input checked="" type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 3 2  c. Pell plug, Bentonite pellets <input checked="" type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name &amp; mesh size  a. <u>Red Flint #15</u> <input checked="" type="checkbox"/>  b. Volume added <u>0.5</u> ft<sup>3</sup></p> <p>8. Filter pack material: Manufacturer, product name &amp; mesh size  a. <u>Red Flint #40</u> <input checked="" type="checkbox"/>  b. Volume added <u>1.4</u> ft<sup>3</sup></p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3  Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4  Other <input type="checkbox"/></p> <p>10. Screen material: <u>Sch. 40 PVC</u>  a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1  Continuous slot <input type="checkbox"/> 0 1  Other <input type="checkbox"/>  b. Manufacturer <u>Campbell (Monoflex)</u>  c. Slot size: <u>0.01</u> in.  d. Slotted length: <u>5</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4  Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm

SCS ENGINEERS, 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.

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

Facility/Project Name Dane County Landfill No. 3 (Proposed)	County Name Dane	Well Name MW-120A
Facility License, Permit or Monitoring Number --	County Code 13	Wis. Unique Well Number WD867
		DNR Well ID Number --

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☒ 4 1  
 surged with bailer and pumped ☐ 6 1  
 surged with block and bailed ☐ 4 2  
 surged with block and pumped ☐ 6 2  
 surged with block, bailed and pumped ☐ 7 0  
 compressed air ☐ 2 0  
 bailed only ☐ 1 0  
 pumped only ☐ 5 1  
 pumped slowly ☐ 5 0  
 Other ☐

3. Time spent developing well 82 min.4. Depth of well (from top of well casing) 52.6 ft.5. Inside diameter of well 2.07 in.6. Volume of water in filter pack and well casing 11.7 gal.7. Volume of water removed from well 16.0 gal.8. Volume of water added (if any) 0.0 gal.9. Source of water added NA10. Analysis performed on water added? ☐ Yes ☒ No  
(If yes, attach results)


17. Additional comments on development:

- Surge/purge 30 minutes, DTW 47.8ft, purged 10 gallons, went dry during surge/purge
- Purged dry 3 times w/ 10 minute recharge in between purges, purged 6 gallons
- 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: RathsackFacility/Firm: Dane County Dpt. of Waste & RenewablesStreet: 1919 Alliant Energy Center WayCity/State/Zip: Madison, WI 53713

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

Signature: Print Name: Brianna SalomeFirm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718



B-121C

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

Page 1 of 3

Facility/Project Name Dane County Landfill No. 3 (Proposed) SCS#: 25222268.00		License/Permit/Monitoring Number		Boring Number B-121C	
Boring Drilled By: Name of crew chief (first, last) and Firm Scott Klumb Soils & Engineering Services, Inc.		Date Drilling Started 2/7/2023		Date Drilling Completed 2/7/2023	
Drilling Method HSA 4.25" ID & HQ Core					
WI Unique Well No. --	DNR Well ID No. --	Common Well Name --	Final Static Water Level --	Surface Elevation 903.6 Feet MSL	Borehole Diameter 8.3" & 3.8"
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/>		State Plane 377,615 N, 2,168,256 E S/C/N		Lat <input type="text"/> ° <input type="text"/> ' <input type="text"/> "	
NW 1/4 of NE 1/4 of Section 36, T 7 N, R 10 E		Long <input type="text"/> ° <input type="text"/> ' <input type="text"/> "		Local Grid Location Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Dane	County Code 13	Civil Town/City/ or Village City of Madison	

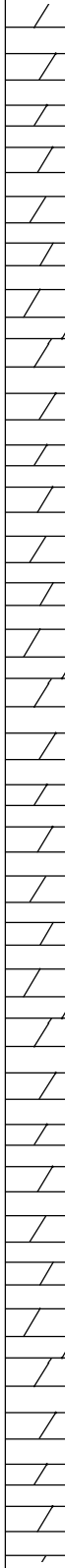
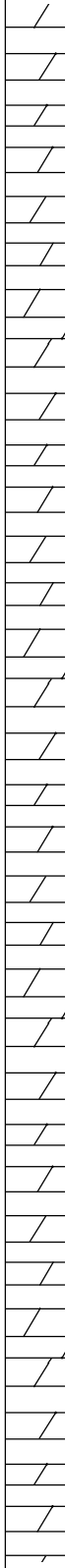
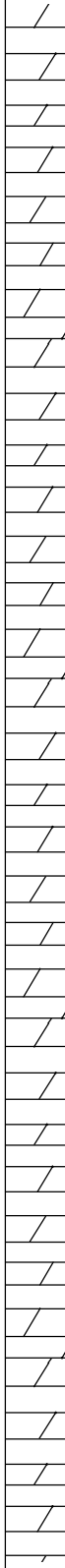
Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1	Blind drilled to 12.5' bgs. (See MW-121 log for lithology from 0' to 15' bgs.)										
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											
			13	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)	DL4	/								
			14			/								
			15			/								

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

Signature 	Firm SCS Engineers 2830 Dairy Drive, Madison, WI 53718
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**SOIL BORING LOG INFORMATION SUPPLEMENT**  
Form 4400-122A

Boring Number		B-121C		Use only as an attachment to Form 4400-122.										Page 2 of 3											
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments											
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200												
Run 1	27		16	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)										FF=1.33/ft Percent Recovery=30% RQD=17%, very poor											
			17																						
			18																						
			19																						
			20																						
			21																						
			22																						
			23																						
			24																						
			25																						
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			36																						
			37																						
			38																						
			39																						
			40																						
Run 2	84		24												DL4										FF=0.86/ft Percent Recovery=87.5% RQD=59%, fair
			25																						
			26																						
			27																						
			28																						
			29																						
			30																						
			31																						
			32																						
			33																						
			34																						
			35																						
			36																						
			37																						
			38																						
			39																						
Run 3	117		34											FF=0.51/ft Percent Recovery=96.7% RQD=63%, fair											
			35																						
			36																						
			37																						
			38																						
			39																						
			40																						

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

Boring Number		Use only as an attachment to Form 4400-122.										Page 3 of 3		
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
Run 4	29		41	<p>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)</p> <p>End of boring at 41' bgs in dolomite. Abandoned borehole with bentonite grout and bentonite chips.</p>	DL4									<p>FF=2.1/ft Percent Recovery=100% RQD=55%</p>

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal****Route to DNR Bureau:**☐ Drinking Water☐ Watershed/Wastewater☐ Remediation/Redevelopment☒ Waste Management☐ Other: \_\_\_\_\_**1. Well Location Information**

County	WI Unique Well # of Removed Well	Hicap #
Dane		B-121C
Latitude / Longitude (see instructions)	Format Code	Method Code
N	<input type="checkbox"/> DD	<input type="checkbox"/> GPS008
W	<input type="checkbox"/> DDM	<input type="checkbox"/> SCR002
		<input type="checkbox"/> OTH001
1/4 1/4 NW	Section	Township
1/4 NE	36	7 N
or Gov't Lot #		Range 10
		<input checked="" type="checkbox"/> E
		<input type="checkbox"/> W
Well Street Address	Well ZIP Code	
7101 US Highway 12 & 18	53718	
Well City, Village or Town	Lot #	
Madison, WI		
Subdivision Name		

**2. Facility / Owner Information**

Facility Name		
Dane County Landfill No.3 (Proposed)		
Facility ID (FID or PWS)		
License/Permit/Monitoring #		
Original Well Owner		
Dane County Department of Waste and Renewables		
Present Well Owner		
Dane County Department of Waste and Renewables		
Mailing Address of Present Owner		
1919 Alliant Energy Center Way		
City of Present Owner	State	ZIP Code
Madison	WI	53713

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

**3. Filled & Sealed Well / Drillhole / Borehole Information**

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy)
<input type="checkbox"/> Water Well	02/07/2023
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type:	
<input checked="" type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)
<input type="checkbox"/> Other (specify):	<input type="checkbox"/> Dug

Formation Type:
<input checked="" type="checkbox"/> Unconsolidated Formation
<input checked="" type="checkbox"/> Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
41	NA
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.3 to 3.0	NA

Was well annular space grouted?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown
---------------------------------	------------------------------	--	----------------------------------

If yes, to what depth (feet)?	Depth to Water (feet)
NA	~4

**5. Material Used to Fill Well / Drillhole**

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	41	450 lbs	dry mix

**6. Comments**

Boring B-121C

**7. Supervision of Work**

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