#### **Environmental Consultants & Contractors**

# SCS ENGINEERS

March 24, 2023 File No. 25222265.00

Mr. Bruce LeRoy Wisconsin Department of Natural Resources 1027 W. St. Paul Ave. Milwaukee, WI 53233

Subject: Monitoring Well Abandonment Documentation

Boundary Road Landfill Menomonee Falls, Wisconsin

License #0011

EPA ID #WID058735994

Dear Mr. LeRoy:

On behalf of Waste Management of Wisconsin, Inc. (WMWI), SCS Engineers (SCS) is submitting the enclosed documentation for the abandonment of three monitoring wells located at the WMWI Boundary Road Landfill.

The wells were abandoned as proposed in the Plan of Operation for the Orchard Ridge Recycling and Disposal Facility (RDF) Eastern Expansion, Southern Unit, which was approved by the Wisconsin Department of Natural Resources (WDNR) on December 15, 2022.

The three monitoring wells (P101, TW2R, and TW3R) were abandoned because they were located within the area affected by the first phase of the Boundary Road Landfill waste exhumation project, which is being performed in conjunction with construction of the Orchard Ridge East Expansion, Southern Unit.

In accordance with Wisconsin Administrative Code NR 507.04(2), SCS provided a professional geologist or qualified technician directly supervised by a professional geologist to observe the abandonment of the wells. The abandonment complied with NR 507.08. The monitoring well abandonment forms are included in **Attachment A**. Details of the abandonment are presented below.

The well casings and protective covers were removed from the wells prior to abandonment. In addition, dedicated well tubing and the associated dedicated pump were removed from P101 prior to abandonment.

Each monitoring well was overdrilled utilizing a roto-sonic track rig equipped with a water rotary drill bit. The bit had a welded steel extension rod designed to keep the drill bit centered within the 2-inch PVC riser pipe and screen, preventing deviation from the original borehole. PVC fragments were observed in the drill cuttings for each well overdrill, indicating that the wells were properly overdrilled according to plan. For all wells, the total well depth was reached or exceeded during overdrilling.

Once the final depth of each overdrill was reached, the drill crew pumped bentonite-cement grout to the bottom of the hole using the water rotary drill stem. The drill stem was then retracted in sections, with grout pumped as each section was withdrawn to displace the groundwater and seal the well



Mr. BJ LeRoy March 24, 2023 Page 2

bore from the bottom up. Grout reached the surface and was circulated within the borehole at each former well location.

If you have any questions about the enclosed documentation, please contact Eric Oelkers at 608-444-3934 or eoelkers@scsengineers.com.

Sincerely,

Aaron C. Lofberg Staff Professional SCS Engineers Eric Oelkers, PG

Senior Project Manager / Hydrogeologist

SCS Engineers

ACL/jsn/EO/SCC

cc: David Buser, WDNR

Alicia Zewicki, WDNR Ann Bekta, WDNR Larry Buechel, WMWI Dan Roche, WMWI Brett Coogan, WMWI

Greg Konsionowski, WMWI

Encl. Attachment A - Boundary Road Landfill Monitoring Well Abandonment Forms

## Attachment A

# Boundary Road Landfill Monitoring Well Abandonment Forms

State of Wis., Dept. of Natural Resources SCS No. 25222265 dnr.wi.gov

### Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

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

Route to DNR Bureau:

Verification Only o	of Fill a	nd Sea	1		Prinking Water	Watershed/Wastewater X Remediation/Redevelopme									
				X V	Vaste Manageme	nt	Other:	Y							
1. Well Location Inform	nation					2. Facility	/ / Owner Inf	ormation							
County	<i>N</i> I Uniqu	e Well # o	of H	licap #		Facility Name									
Waukesha	Removed	i vveii				Boundary Road Landfill									
Latitude / Longitude (see ins	structions	)	Format (	Code	Method Code	Facility ID (FID or PWS) 268152390									
		N		D	GPS008	License/Permit/Monitoring #									
		w	Пр	DM	SCR002	License:		#							
1/4 / 1/4 SE		Section	Towr	nship	Range X E	Original We									
or Gov't Lot #		1		8 N		Wasta Management of Wisconsin, Inc.									
Well Street Address				- 14		Present Well Owner									
W124 N8925, Bounda	ry Rd							of Wisconsin, In	C.						
Well City, Village or Town				Well	ZIP Code	_	lress of Presen								
Menomonee Falls				530	51		8925 Bounda	ary Road							
Subdivision Name				Lot #	E	City of Pres			State	ZIP Code					
							nee Falls		WI,	53051					
Reason for Removal from Se	ervice	WI Unio	que Well	# of Re	eplacement Well			en, Casing & Sea			A 2246				
Landfill Expansion						1	nd piping remov	/ed?		Yes No	X N/A				
3. Filled & Sealed Well							removed?			Yes No	X N/A				
X Monitoring Well	Oı	riginal Co	nstructio	n Date	(mm/dd/yyyy)	Liner(s) perforated?									
Water Well			10/0	)2/199	91	Screen removed? Yes No No No Casing left in place?									
	If	a Well Co	onstruction	on Rep	ort is available,										
Borehole / Drillhole	pl	ease atta	ich.			_	ing cut off belo			Yes X No	∐ N/A				
Construction Type:						Did sealing material rise to surface?  Yes No X N/									
X Drilled Dr	riveņ (Sa	ndpoint)		Du	g	Did material settle after 24 hours?									
Other (specify):										Yes No	X N/A				
Formation Type:							er from a know	used, were they hydi n safe source?	rated	Yes No	X N/A				
X Unconsolidated Format	tion		Bedro	ck		Required M	lethod of Placir	ng Sealing Material							
Total Well Depth From Grou	ınd Surfa	ce (ft.)	Casing D	iamete	r (in.)	Cond	uctor Pipe-Gra	vity X Conductor	Pipe-Pump	oed					
82			2				ened & Poured onite Chips)	Other (Expl	lain):						
Lower Drillhole Diameter (in.	.)		Casing D	epth (fi	t.)	Sealing Ma									
8.5		- 1	72	. ,			Cement Grout		Concrete						
0.0						Sand	-Cement (Cond	crete) Grout	Bentonite	Chips					
Was well annular space grou	ited?	$\times$	Yes	No	Unknown			Monitoring Well Bore							
If yes, to what depth (feet)?		Depth	to Wate	r (feet)		1	nite Chips		nite - Ceme						
68		17.2	25				ular Bentonite		nite - Sand						
5. Material Used to Fill	Well/1	Orillhole				From (ft.)	To (ft.)	No. Yards, Sacks S	Sealant or	Mix Rat					
Bentonite-Cement Gro		J. 111111010						Volume (circle		Mud W	eight				
Bentonite-Cement Gro	out					Surface	90	80 gallon	is						
6. Comments															
P101, overdrilled and g	arouted	well. Di	NR We	II ID N	lumber: 069				,						
7. Supervision of Work	_								ONR Use	Only					
Name of Person or Firm Doi		& Sealin	g Lice	nse #	Date of Fi	lling & Sealir	g or Verificatio			Noted By					
Horizon Construction & Ex	_					ууу) 11/16/									
Street or Route	·				T	elephone Nu	mber	Comments							
764 Tower Drive						262 ) 69									
City			State	ZIP	Code	Signature of	f Person Doing	Work	Dat	te Signed					
Fredonia			l wi		53021		ann -1	11.		11/22/20	122				

				☐ Wastewater	Ot									1	of _	3
acility	/Project	Nam	e d I on	asu 15	37101	License	/Perm	it/Mor	itorin	g Numb	er		y Numb	ег		
	undar; Drilled			ne and name of crew chief)	37101	Date D	_		1	Date	Drilling	_	leted	Drilling	" I.D	
xplo	ration	Tech	molog	y, Inc Ken Tainter			9/30	)/91			10/2	/91		0-100		
				T Unique Well No. Common Well		Final S					ce Eleva 758.0			Boreho	-	
				P101			44.9	Feet M	ISL		1 Grid L	Feet Nocation				nches
	Locatio			664.0 N, 2515526.0 F	-	400		-	-				IN IS_			
ount			1/4 0	of Section 1, T 8 N, R		V Lon County 68		Civil '	Town/	City/or	Village					
Sam						1						Soil	Proper	ties		
Number	Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Descriptio And Geologic Origin F Each Major Unit			nscs	Graphic Log	Mell Diagram	PIO/FID	Standard Penetra- tion	Molsture Content	Liquid Limit	Plastic Limit	P 200	Rab/
1	24	16	_	Stiff, Light Brown Lean CLAY, Trace	Gravel,		CL		96.00	67.9	111					SS
2	24	7	-	Moist (CL)		/			444	4.4	-					SS
2	24		= 10	Loose, Light Brown Clayey SAND, M			SC		中の中か	0.00	1.0					SS
3	24	4	_ 5	Soft, Black Organic CLAY, Trace Plan (OL)	st	OL	2.8.4	各市各市市市	0.0	1.0 TSF			11			
4	20	6	E	Loose, Light Brown Gravelly SAND,	P)	SP	VIIII	事を申	400	2.5 TSF					SS	
5	24	15	-	Stiff to Very Stiff, Light Brown Lean Gravel, Moist (CL) Change to Light Gray at 8.0 ft	CLA1, I	race	CL		中中中中	***************************************	2.0 TSF					SS
6	24	13	10			1				0.0	3.0 TSF			-		SS
7	24	27	E							_	4.0					SS
8	24	17	臺							_	TSF 4.0				-	SS
0	24	17	15							_	TSF			-		S
9	24	28				= 1					TSF		-			
10	24	22	E								4.0 TSF					SS
11	24	28	20	3	tota e C		CL-M									S
12	24	38	E	Very Stiff, Light Gray Silty CLAY, L Fine Sand, Trace Gravel, Moist (CL-	ML)	ome	ULIM									S
13	24	62	3										-			S
_			25	Medium Dense, Light Gray Silty SAI No Sample 26-28 ft	ND, Wet	(SM)	SM	1:1		-						-
14	24	27	-	Hydro Punch 28-29 ft, Hammered 26 Punch Duplicate Attempted (No Wa	i-29 ft, Hy iter)	ydro		1:1			3.5 TSF					S
The	stratifica	tion li	nes repr	resent the approximate boundary between	n soil typ	es and t	he tra	nsition	may b	e gradu	al.					
				formation on this form is true and correc												

This form is authorized by chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Boring No.: P101
Page 2 of 3

Samp	ole	7						1	-	Soil	Propert	ies		
	Recovered (in.)	Blow Counts	Depth In Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	nscs	Graphic			Standard Penetral	Molsture Content	Liquid Limit	P = ss + i c	P 200	SS Rab/ Comments
15	24	21		Very Stiff, Brown to Gray Lean CLAY, Little to Some Gravel, Moist (CL)	CL				3.3 TSF					33
16	24	24	-	Sonic Graves, Mode (4-)					3.0 TSF					SS
17	24	13	E.						2.8 TSF					SS
18	24	26	- 35 -						3.4 TSF			707		SS
			E	Brown				<b>—</b>	3.8					SS
19	24	25	40	Piown				_	3.0		-	-		SS
20	24	27	-					_	TSF					SS
21	24	13	E		1				TSF					SS
22	24	28	- 45						2.5 TSF					
23	24	12	E	Medium Dense, Gray to Brown Silty SAND, Wet (SM)	SM	111								SS
24	24	11	E	Stiff to Very Stiff, Gray to Brown Lean CLAY, Trace to Little Gravel, Moist (CL)	CI				1.0 TSF				1	SS
25	24	23	50		1				0.5 TSF					SS
26		15	=		1				2.5 TSI		1			SS
27		47	E	),					3.5		+			SS
			- 55		1				TSI 0.5	+	-	-	+	SS
28	24	22	E	Soft	A				TSI		1	-	+	SS
29	24	,37		Hard					TS	F	-	-		SS
30	) 24	64	60						3.5 TS	F				
33	1 24	24	1 -						1.5 TS				VI.	S
33	2 24	36	6 - 65						Z. TS					S
3:	3 24	1		-					2. TS	5 F		- W		S
3	4 12	-	F	1/2" Sand Seam at 68 ft  Dense to Very Dense, Light Brown to Gray Fine	SP	SM								S
3	12		- 70	SAND, Little Silt and Clay, Wet (SP-SM)		1					4			
			E	Hydro Punch 71-72 ft		1			- 3 /-				11	1.0
3	35 24	3	19 -			1	11				-		4	-
3	36 24	1 6	57 - 7	5	-									-
-3	37 2	4 1	41			10	11							
_	38 2	4 :	52 -	More Silt with Depth		1	11							

Boring No.: P101
Page 3 of 3

ample									Soil I	Propert	ies		
Number Length Recovered	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	nscs	Graphic	Well Diagram	PID/FID	Standard Penetra- tion	Molsture Content	Liquid Limit	Plastic Limit	P 200	RQD/
39 24	48	80			Tit.			2.5					SS
10 24	28	=	Stiff to Very Stiff, Gray Lean CLAY, Trace Gravel, Moist (CL)	CL				TSF 1.5 TSF		37	17	99.5	SS
41 24	34	F 85						1.7 TSF		H			SS
12 24	20							1.5 TSF					SS
43 24	24	ŧ						1.7 TSF					SS
14 24	17	- 9						1.0 TSF				-	SS
45 24	36	E						2.5 TSF					SS
46 24	24	- 9.	5				7.	1.7 TSF					SS
47 24	34	E						1.5 TSF					SS
48 24	25	F	00					1.0 TSF					SS
			End of Boring at 100.0 ft  10  15  20										

tate of Wisconsin  epartment of Natural Resources  Env. Response	lid Waste Haz Waste D	Tarus Li Colai Li	Form 4400-113A	
W- Marie Name	Local Grid Location of Well	f, ⊠ E.	I,WZR	
Boundary Road Landilli	Grid Origin Location		Wis. Umque Well Number DNR	Well Number
acility License, Permit or Monitoring Number	Lat Lo	ong or	Date Well Installed 1 0 ,3 1	, 9 1
ype of Well Water Table Observation Well ⊠ 11	St. Plane 437568 ft.	N. <u>2515857</u> ft. E.	Date Well instances 1 0 /3 1	
Piezometer 12	F 111	Calmen	Well Installed By: (Person's Nan	ne and Furn)
Vistance Well Is From Waste/Source Boundary		1 ,T. 8 N. R. 21 W.	Terry March	
25 ft.	Location of Well Relative to	o Waste/Source  ☐ Sidegradient	Warzyn Inc.	
s Well A Point of Enforcement Std. Application?   Yes   No		Not Known		Ye D No
7.5.6 40		1. Cap and lock 2. Protective co		
766 39		a. Inside diam		3 8 in.
B. Well casing, top elevation		b. Length:		8 0 fc
C. Land surface elevation 763 8	ft. MSL	c Marerial:	1 07	Sizel 0 04
D. Surface seal, bottom ft. MSL or .	fr.		zed Aluminum	Ote M D
12. USCS classification of soil near screen:	7	d. Additiona If yes, des	i protection:	
GP II GM II GC II GW II SW II	SP D	IB / /	Be	ricnite 🛛 30
SM SC D MLD MHU CL D	CH D	3. Surface seal:	·	Concrete 0 01
Bedrock □  13. Sieve analysis attached? ☑ Yes □	□ No □ 50 □ 41 □ 01 □ 99 ☑ No	3. Surface seals  4. Material bet  #30 filt  5. Armular sp. bLb cLb d% e2.1 f. How in		Ode 🗆 🚉
13. Sieve analysis amaches.	II 50	4. Material bet	ween well casing and protective pr	pe: Sentonite 🖾 30
14. Drilling method used: Rotary Hollow Stem Auger	☑ 41		Armular so	ace seal 🔲 🐃
Other		#30 fil1	ter sand above ground	d Surf
	□ 01 <b>□</b>	5. Armular spe	a Granular B	entonite 🛛 33
	⊠ 99	b _Lb	elast mud weight Benionite-sa	nd shurry D 35
Drining Mas E 05 No.2	_	cLb	s/gal mud weight Benichi	the starty —
16. Drilling additives used?   Yes	⊠ No	d%	Bentonite Bentonite-cem  Ft 3 volume added for any of the	he above
		e. Z.1		Trenie 🛘 0
Describe		f. now in	Tremie	pumped 🔲 0:
17. Source of water (attach analysis):				Gravity 🛛 0
		6. Bentonite	seal: a. Bentonite	e granules 🔯 3
E Bentonite seal, top			in. \$\sigma_3/8\$ in. \$\sigma_1/2\$ in. Benton	_Other []
		7. Fine sand	material: Manufacturer, product	name & mesh size
F. Fine sand, top 758 3 ft. MSL o	111	Badge	er Mining Corpfine	mesh silic
G. Filter pack, top 757 4 ft. MSL c	64 1	b. Yolum	andled U.5 ft	
		8. Filter pac	to margial. Manufacturer, product	t name and mesh
H Screen joint top 756 8 ft. MSL o	or _ 7 0 ft.	2	flint sand #30	
11.00.	15-	b. Volum 9. Well cas	ne acced	
I. Well bottom 746 7 ft. MSL o	or ft.	9. WELL CAS	Flush threaded PVC sc	hedule 80 🔲 🗄
	17 5		****	_ Other 🛚
I. Filter pack, bottom		10. Screen n	naterial: Schedule 40 PVC	D start at NY
V. Borbole bottom 8 ft. MSL	or 18 0 ft.	a Sದಜ	יים לעדים יי	Factory cut 🛛
K. Bolehold, 2020			Com	Otic 🛚
L. Borehole, diameter 8 5 in.	1	1 1/	nfacturer Diedrich	
2 38		c. Slot	size:	0. 010
M. O.D. well casing in.		d Sion	ed length:	9.7
1 97		11. Backfill	material (below filter pack):	None 🗆 Other 🔯
N. LD. well casing in.		COII	apsed natural sand	
I hereby certify that the information			la anda da a	

Please complete both sides of this form and refurn to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., Failure to file this form may result in a forfeiture of not less than \$10, nor more the and ch. NR 141. Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10,000 for each day of violation.

State of Wis., Dept. of Natural Resources SCS No. 25222265 dnr.wi.gov

Fredonia

### Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

11/22/2022

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

Wall Location Information	<b>☐ Verification Only of Fill and Seal</b> ☐ Drinking Water									Watershed/Wastewater Remediation/Redevelopmen								
County						×v	Vaste	Managem										
Boundary Road Landfill   Facility to (Flor PWS)   28152390   281				- 10/-11 //		1111					ormation							
Walt   Water   Well   Construction   Section   Township   Seate   Address   Will   Construction   Sandard   Well   Construction   Sandard   Well   Construction   Sandard   Well   Construction   Sandard   Well   Construction   Section   Construction   Construc	Removed Well																	
Latitude / Longitude (see instructions)   Pormat Code   Method Code   SCR002   SCR	Waukesha				_						JIII							
License   Permittification   SCR02   Content																		
License #0011   Circhort   Control																		
Well Street Address Well Construction Mailing Address of Present Owner Malling Address of Present Owner Mannoncher Ealls City of Present Owner Menomonee Falls Menomonee Falls  Menomonee Falls Menomonee Fal																		
well Street Address W124 N8925, Boundary Rd Well City, Village or Town Menomone Falls Subdivision Name Lot # Sone Falls Subdivision Name Lot # Sone Falls Subdivision Name Will City, Village or Town Menomone Falls Subdivision Name Lot # Sone Falls Subdivision Name Will City, Village or Town Menomone Falls Subdivision Name Lot # Sone Falls Subdivision Name Will City of Present Owner Menomone Falls Subdivision Name Will Unique Well # of Replacement Well Landfill Expansion Situate	1/4 / 1/4		Section	To	ownship	Ran		Original Wel	l Owner									
Well Street Address W124 N8925, Boundary Rd Well City, Village or Town Menomonee Falls Subdivision Name Lot # W124 N8925 Boundary Road W125 Boundary Road W126 N97 Fessent Owner W124 N8925 Boundary Road W126 N97 Fessent Owner W127 N9925 Boundary Road W127 N9925 Boundary Road W127 N9925 Boundary Road W127 N9925 Boundary Road W128 N9925 Boundary R																		
Well ZIP Code   Menomonee Falls	Well Street Addre	SS				- 14				Present Well Owner								
W124 N8925 Boundary Road   W124 N8925 Boundary Road   W124 N8925 Boundary Road   W125 N8925   Subdivision Name   Lot #   City of Present Owner   State   XIP Code   Subdivision Name   Lot #   City of Present Owner   State   XIP Code   Subdivision Name   W1   Subdivision Name   Lot #   Subdivision Name   Landill Expansion   Lot #   Subdivision Name   Lot #   Subdi	W124 N8925,	Bounda	ary Rd							Waste Management of Wisconsin, Inc.								
Subdivision Name    Lot #   Menomone Falls   State   ZIP Code   VII   S3051	Well City, Village	or Town				Well	ZIP C	ode										
Reason for Removal from Service Landfill Expansion  3. Filled & Sealed Well / Drillhole / Borehole Information   Water Well	Menomonee I	Falls				530	51			•								
Reason for Removal from Service Landfill Expansion  3. Filled & Sealed Well // Drillhole / Borehole Information   Monitoring Well	Subdivision Name	Э				Lot #			1 '									
Landfill Expansion  3. Filled & Sealed Well / Drillhole / Borehole Information  3. Filled & Sealed Well / Drillhole / Borehole Information  3. Filled & Sealed Well / Drillhole / Borehole Information  3. Filled & Sealed Well / Drillhole / Borehole Information  3. Filled & Sealed Well / Drillhole / Borehole Information  3. Filled & Sealed Well / Drillhole / Borehole Information  3. Filled & Sealed Well / Drillhole / Borehole / Drillhole / Screen removed?  3. Filled & Sealed Well / Drillhole / Screen removed?  4. Fill & Well Construction Report is available, please attach.  5. Drilled   Driven (Sandpoint)   Dug   Dug   Did material settle after 24 hours?   Yes   No   N/A    6. Was casing ut off below surface?   Yes   No   N/A    7. Was well after 24 hours?   Yes   No   N/A    8. Formation Type:   Will water from a known safe source?   Yes   No   N/A    8. Formation Type:   Will water from a known safe source?   Yes   No   N/A    8. Formation Type:   Required Method of Placing Sealing Material    9. Conductor Pipe-Gravity   Conductor Pipe-Pumped   Sealed Method of Placing Sealing Material    1. Conductor Pipe-Gravity   Conductor Pipe-Pumped   Sealed Method of Placing Sealing Material    1. Conductor Pipe-Gravity   Conductor Pipe-Pumped   Sealed Method of Placing Sealing Material    1. Conductor Pipe-Gravity   Conductor Pipe-Pumped   Sealed Method of Placing Sealing Material    1. Conductor Pipe-Gravity   Conductor Pipe-Pumped   Sealed Method Placing Sealing Material    1. Conductor Pipe-Gravity   Sealing Material   Conductor Pipe-Pumped   Sealing Material    1. Conductor Pipe-Gravity   Sealing Material   Conductor Pipe-Gravity   Sealing Material    1. Conductor Pipe-Gravity   Sealing Material   Conductor Pipe-Gravity   Sealing Material    1. Conductor Pipe-Gravity   Sealing Material   Conductor Pipe-Gravity   Sealing Material									, and the second									
S.Filled & Sealed Well / Drillhole / Borehole Information   Cinginal Construction Date (mm/dd/yyyy)   Liner(s) perforated?   Yes   No   N/A     Water Well			Service	WI Unio	que W	ell # of Re	place	ment Wel	The same of the sa									
Monitoring Well   10/31/1991																		
Monitoring Well   10/31/1991   If a Well Construction Report is available, please attach.	3. Filled & Sea	iled Well							` '									
Water Well   If a Well Construction Report is available, please attach.   If a Well Construc	★ Monitoring \    \     \    \     \     \     \     \     \     \     \     \     \     \    \     \     \     \     \     \     \     \     \     \     \   \     \	NeⅡ	ľ	rigiliai 00				астуууу)	Screen re									
Sorehole / Dirilhole   please attach.	Water Well		-					W 2.00	Casing le	- Casing left in place? Yes X No N/A								
Did sealing material rise to surface?   Yes   No   N/A	Borehole / D	Drillhole				ction Repo	ort is	available,	Was casir	ng cut off belo	w surface?		Yes X N	o N/A				
Did material settle after 24 hours?   Yes   No   N/A     Other (specify):   Formation Type:   If yes, was hole retopped?   If yes, was hole retopped?   Yes   No   N/A     If yes, was hole retoped, was hole yeighted.   Yes   No   N/A     If yes, was hole retopped?   Yes   No   N/A     If yes, was hole retopped?   Yes   No   N/A     If yes, was hole retopped?   Yes   No   N/A     If yes, test   Yes   No	Construction Type	e:	1.0			i i							: =					
Other (specify):			riven (Sa	andpoint)		Duc	a		Did mater	ial settle after	24 hours?		Yes N					
Formation Type:    Variable   Vest			1				9		If yes									
Material   Sealing Material   Conductor Pipe-Gravity   Conductor Pipe-Pumped   Conductor Pipe-Pumped   Conductor Pipe-Gravity   Conductor Pipe-Pumped   Conductor		,.							If bentonit	If bentonite chips were used, were they hydrated with water from a known safe source?								
Total Well Depth From Ground Surface (ft.)  18 2 Conductor Pipe-Gravity Screened & Poured (Bentonite Chips)  Neat Cement Grout Sand-Cement (Concrete) Grout Sand-		ted Forma	ation	Г	Bed	drock				Will water from a known sale source.								
Screened & Poured   Other (Explain):   Casing Depth (ft.)   Sealing Materials   Neat Cement Grout   Concrete   Sand-Cement (Concrete) Grout   Bentonite Chips   Sand-Cement (Concrete) Grout   Bentonite Chips   For Monitoring Well Boreholes Only:   Sand-Cement (Concrete) Grout   Bentonite Chips   For Monitoring Wells and Monitoring Well Boreholes Only:   Bentonite Chips   Sand-Cement (Concrete) Grout   Bentonite Chips   For Monitoring Wells and Monitoring Well Boreholes Only:   Bentonite - Cement Grout   Granular Bentonite   Bentonite - Sand Slurry				ace (ft.)			r (in.)			Conductor Pipe-Gravity 🗙 Conductor Pipe-Pumped								
Lower Drillhole Diameter (in.)  8.5    Casing Depth (ft.)				()		9	()											
Neat Cement Grout		iameter (ir	1.)			a Depth (fl	t.)		— (Beritonite Chips)									
Was well annular space grouted?  Depth to Water (feet)  Bentonite - Cement Grout  Bentonite - Cement Grout  From (ft.)  No. Yards. Sacks Sealant or Mix Ratio or Volume (circle one)  Mud Weight  Surface  22 25 gallons  Comments  Was well annular space grouted?  Mix Ratio or Volume (circle one)  Mud Weight  Surface  25 gallons  DNR Use Only  Noted By  Horizon Construction & Exploration  Telephone Number  (262 ) 692-3348			/			5   (	/											
Was well annular space grouted?    Yes	0.5				1				⊢ ⊟ Sand-0									
If yes, to what depth (feet)?  5.5  Depth to Water (feet)  Granular Bentonite  Bentonite - Cement Grout  Surface  Comments  TW2R, overdrilled and grouted well, DNR Well ID Number: 059  7. Supervision of Work Name of Person or Firm Doing Filling & Sealing Horizon Construction & Exploration  Hix Ratio or Mud Weight  Surface  Surface  Surface  DNR Use Only  Date of Filling & Sealing or Verification (mm/dd/yyyy) 11/14/2022  Street or Route  Telephone Number  (262 ) 692-3348	Was well annular	space gro	uted?	$\times$	Yes	No		Unknowi			_	_						
5. Material Used to Fill Well / Drillhole  Bentonite-Cement Grout  Surface  Surface  22  25 gallons  6. Comments  TW2R, overdrilled and grouted well, DNR Well ID Number: 059  7. Supervision of Work Name of Person or Firm Doing Filling & Sealing Horizon Construction & Exploration Horizon Construction & Exploration  Telephone Number (262 ) 692-3348	If yes, to what dep	oth (feet)?		Depth	to W	ater (feet)				<b>1</b> —								
5. Material Used to Fill Well / Drillhole  Bentonite-Cement Grout  Surface  Surface  22  25 gallons  6. Comments  TW2R, overdrilled and grouted well, DNR Well ID Number: 059  7. Supervision of Work Name of Person or Firm Doing Filling & Sealing Horizon Construction & Exploration Horizon Route  Telephone Number  (262) 692-3348	5.5			13.6	3				Granul									
Bentonite-Cement Grout  Surface  Surface  22  25 gallons  6. Comments  TW2R, overdrilled and grouted well, DNR Well ID Number: 059  7. Supervision of Work Name of Person or Firm Doing Filling & Sealing Horizon Construction & Exploration  Horizon Construction & Exploration  Surface  Date of Filling & Sealing or Verification (mm/dd/yyyy) 11/14/2022  Street or Route 764 Tower Drive  Telephone Number (262 ) 692-3348	5. Material Use	ed to Fill	Well /	Drillhole				17.			No. Yards, Sacks	Sealant or	Mix R					
6. Comments  TW2R, overdrilled and grouted well, DNR Well ID Number: 059  7. Supervision of Work Name of Person or Firm Doing Filling & Sealing Horizon Construction & Exploration  Street or Route 764 Tower Drive  Telephone Number (262 ) 692-3348				Diiiiii ole									Mud V	Veight				
TW2R, overdrilled and grouted well, DNR Well ID Number: 059  7. Supervision of Work Name of Person or Firm Doing Filling & Sealing Horizon Construction & Exploration Street or Route 764 Tower Drive  DNR Use Only Date Received Noted By Telephone Number (262 ) 692-3348	Deritorite-Cer	nent Gr	out						Surface	22	25 gaile	115						
TW2R, overdrilled and grouted well, DNR Well ID Number: 059  7. Supervision of Work Name of Person or Firm Doing Filling & Sealing Horizon Construction & Exploration Street or Route 764 Tower Drive  DNR Use Only Date Received Noted By Telephone Number (262 ) 692-3348																		
7. Supervision of Work Name of Person or Firm Doing Filling & Sealing Horizon Construction & Exploration Street or Route 764 Tower Drive  Date of Filling & Sealing or Verification (mm/dd/yyyy) 11/14/2022  Date Received Noted By  Telephone Number (262 ) 692-3348	6. Comments										WATER CHANGE							
7. Supervision of Work Name of Person or Firm Doing Filling & Sealing Horizon Construction & Exploration Street or Route 764 Tower Drive  Date of Filling & Sealing or Verification (mm/dd/yyyy) 11/14/2022  Date Received Noted By  Telephone Number (262 ) 692-3348	TW2R. overdr	illed and	l aroute	d well. [	ONR	Well ID	Num	ber: 059										
Name of Person or Firm Doing Filling & Sealing Horizon Construction & Exploration  License # Date of Filling & Sealing or Verification  (mm/dd/yyyy) 11/14/2022  Street or Route 764 Tower Drive  Date Received Noted By  Telephone Number (262 ) 692-3348												DNR He	Only					
Street or Route 764 Tower Drive Telephone Number (262 ) 692-3348 Comments									Filling & Sealing	or Verificatio	n Date Received	2.111 030						
764 Tower Drive (262 ) 692-3348	Horizon Constru	iction & E	xplorati	on				(mm/dd/	уууу) 11/14/2	.022								
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### Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

11/22/2022

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information. Route to DNR Bureau: **Drinking Water** Watershed/Wastewater |X | Remediation/Redevelopment Verification Only of Fill and Seal ★ Waste Management
 ★ Waste Mana Other: \_ 1. Well Location Information 2. Facility / Owner Information County WI Unique Well # of Hicap # Facility Name Removed Well Boundary Road Landfill Waukesha Facility ID (FID or PWS) Latitude / Longitude (see instructions) Format Code Method Code 268152390 GPS008 DD N License/Permit/Monitoring# SCR002 W OTH001 License #0011 1/4/1/4 Section <sup>1</sup>∕₄ SE Township Original Well Owner Range XE Waste Management of Wisconsin, Inc. 8 N or Gov't Lot # 1 21 Present Well Owner Well Street Address Waste Management of Wisconsin, Inc. W124 N8925, Boundary Rd Mailing Address of Present Owner Well City, Village or Town Well ZIP Code W124 N8925 Boundary Road Menomonee Falls 53051 City of Present Owner State ZIP Code Subdivision Name Lot# Menomonee Falls WI 53051 4. Pump, Liner, Screen, Casing & Sealing Material Reason for Removal from Service WI Unique Well # of Replacement Well Pump and piping removed? X N/A No Landfill Expansion X N/A Liner(s) removed? Yes No 3. Filled & Sealed Well / Drillhole / Borehole Information Liner(s) perforated? Yes No X N/A Original Construction Date (mm/dd/yyyy) X Monitoring Well X N/A Screen removed? Yes No 10/24/1991 Water Well Casing left in place? Yes X No N/A If a Well Construction Report is available, Borehole / Drillhole Was casing cut off below surface? Yes X No N/A please attach. Did sealing material rise to surface? No X N/A Construction Type: Yes Did material settle after 24 hours? X N/A Yes No X Drilled Driven (Sandpoint) Dug If yes, was hole retopped? Yes No X N/A Other (specify): If bentonite chips were used, were they hydrated X N/A Formation Type: with water from a known safe source? Required Method of Placing Sealing Material X Unconsolidated Formation Bedrock Conductor Pipe-Gravity X Conductor Pipe-Pumped Total Well Depth From Ground Surface (ft.) Casing Diameter (in.) Screened & Poured Other (Explain): 31.5 (Bentonite Chips) Lower Drillhole Diameter (in.) Casing Depth (ft.) Sealing Materials **Neat Cement Grout** Concrete 20 unconfirmed- 8.5 assumed Sand-Cement (Concrete) Grout **Bentonite Chips** Was well annular space grouted? X Yes No Unknown For Monitoring Wells and Monitoring Well Boreholes Only: If yes, to what depth (feet)? Depth to Water (feet) X Bentonite - Cement Grout **Bentonite Chips** 18 12.5 Granular Bentonite Bentonite - Sand Slurry No. Yards, Sacks Sealant or 5. Material Used to Fill Well / Drillhole Bentonite-Cement Grout Surface 34 35 gallons 6. Comments TW3R, overdrilled and grouted well, DNR Well ID Number: 061 7. Supervision of Work **DNR Use Only** Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing or Verification Noted By (mm/dd/yyyy) 11/14/2022 Horizon Construction & Exploration Street or Route Telephone Number Comments 764 Tower Drive (262 ) 692-3348 City State ZIP Code Signature of Person Doing Work Date Signed