



## Compliance inspection report form

520 Lafayette Road North St. Paul, MN 55155-4194 Existing Subsurface Sewage Treatment System (SSTS)

Doc Type: Compliance and Enforcement

Instructions: Inspector must submit completed form to Local Governmental Unit (LGU) and system owner within 15 days of final determination of compliance or noncompliance. Instructions for filling out this form are located on the Minnesota Pollution Control Agency (MPCA) website at https://www.pca.state.mn.us/sites/default/files/wg-wwists4-31a.pdf.

Property information	Local tracking	number
Parcel ID# or Sec/Twp/Range: 171061505	Reason for Inspection	Property Sale
Local regulatory authority info: Becker County Zoning 218-846	<del></del> -	
Property address: 13027 Red Elm Ridge	· · · · · · · · · · · · · · · · · · ·	
Owner/representative: Kevin Paulsrud		Owner's phone: 701-430-0965
Brief system description: Septic tank with gravity fed drainfield		
System status		
System status on date (mm/dd/yyyy): 6/5/2023		
☐ Compliant - Certificate of compliance*	⊠ Noncompliant – Notic	ce of noncompliance
(Valid for 3 years from report date unless evidence of an imminent threat to public health or safety requiring removal and abatement under section 145A.04, subdivision 8 is discovered or	Systems failing to protect grouse discontinued within the ti	ound water must be upgraded, replaced, or ime required by local ordinance.
a shorter time frame exists in Local Ordinance.)	An imminent threat to public i	health and safety (ITPHS) must be
*Note: Compliance indicates conformance with Minn. R. 7080.1500 as of system status date above and does not guarantee future performance.	of this notice or within a short under section 145A.04 subdit	e discontinued within ten months of receipt ter period if required by local ordinance or vision 8.
<ul> <li>☐ Other Compliance Conditions (Compliance componet</li> <li>☐ Other Compliance Conditions (Compliance componet</li> <li>☐ System not abandoned according to Minn. R. 7080.3</li> <li>☐ Soil separation (Compliance component #5) – Failin</li> <li>☐ Operating permit/monitoring plan requirements (Concomments or recommendations</li> </ul>	ent #3) <i>– Failing to protect gr</i> 2500 (Compliance componer <i>g to protect groundwater</i>	oundwater nt #3) – Failing to protect groundwater
Certification		
I hereby certify that all the necessary information has been gathered future system performance has been nor can be made due to unknowinadequate maintenance, or future water usage.  By typing my name below, I certify the above statements to be true used for the purpose of processing this form.	vn conditions during system co	nstruction, possible abuse of the system,
Business name: Ohm Excavating LLC	-21	Certification number: 1929
Inspector signature: Olivia Ohm	mala	License number: 4034
(This document has been electronically sign	ned)	Phone: <u>218-234-1256</u>
Necessary or locally required supporting do		
Soil observation logs ☐ System/As-Built ☑ Locally re     Other information (list):	equired forms 🔲 Tank Integ	prity Assessment

pact on public health – Co	ompliance con		
Compliance criteria:	<u> </u>	Attached supporting documentat	on:
System discharges sewage to the ground surface	☐ Yes* ⊠ No	☐ Other: ☑ Not applicable	<u></u>
System discharges sewage to drain ile or surface waters.	☐ Yes* ⊠ No		
System causes sewage backup into welling or establishment.	☐ Yes* ⊠ No		
Any "yes" answer above indicates mminent threat to public health ai	the system is an nd safety.	_	
Describe verification methods and	i results:		
<b>nk integrity</b> – Compliance	component#	2 of 5	
<b>nk integrity</b> – Compliance	component #		
	component #		on:
Compliance criteria:		Attached supporting documentat	on:
	component #		on:
Compliance criteria: System consists of a seepage pit,		Attached supporting documentat	on:
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit,		Attached supporting documentation Empty tank(s) viewed by inspector	
Compliance criteria: System consists of a seepage pit,		Attached supporting documentat	on: Ohm
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	☐ Yes* ☑ No	Attached supporting documentation  Empty tank(s) viewed by inspector  Name of maintenance business:	Ohm
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit,		Attached supporting documentation Empty tank(s) viewed by inspector	Ohm
Compliance criteria:  System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?  Sewage tank(s) leak below their	☐ Yes* ☑ No	Attached supporting documentation  Empty tank(s) viewed by inspector  Name of maintenance business:  License number of maintenance bus	Ohm iness: 4034 6/5/2023
Compliance criteria:  System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?  Sewage tank(s) leak below their	☐ Yes* ☑ No	Attached supporting documentation  Empty tank(s) viewed by inspector  Name of maintenance business:  License number of maintenance bus  Date of maintenance:	Ohm iness: 4034 6/5/2023
Compliance criteria:  System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?  Sewage tank(s) leak below their designed operating depth?	☐ Yes* ☑ No	Attached supporting documentation  Empty tank(s) viewed by inspector  Name of maintenance business:  License number of maintenance bus  Date of maintenance:  Existing tank integrity assessment (A)  Date of maintenance	Ohm iness: <u>4034</u> <u>6/5/2023</u> ittach)
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Compliance criteria:  System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?  Sewage tank(s) leak below their designed operating depth?  If yes, which sewage tank(s) leaks:	☐ Yes* ☒ No ☐ Yes* ☒ No ☐ Yes* ☒ No	Attached supporting documentation  Empty tank(s) viewed by inspector  Name of maintenance business:  License number of maintenance business business in the part of maintenance in the	Ohm iness: 4034 6/5/2023 attach) ithin three years) essment complies w
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	roperty Address: 13027 Red Elm Ridge	· · · · · · · · · · · · · · · · · · ·
В	Business Name: Ohm Excavating LLC	Date: 6/5/2023
3.	Other compliance conditions – Compliance component #3 of 5	
	3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or unso	ecured?
	☐ Yes* ☑ No ☐ Unknown,	
	3b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safe	y? ☐ Yes* ☒ No ☐ Unknown
	*Yes to 3a or 3b - System is an imminent threat to public health and safety.	
	3c. System is non-protective of ground water for other conditions as determined by inspector?	☐ Yes* ☒ No
	3d. System not abandoned in accordance with Minn. R. 7080.2500?	☐ Yes*
	*Yes to 3c or 3d - System is failing to protect groundwater.	
	Describe verification methods and results:	
	Attached supporting documentation:   Not applicable	
4.	Operating permit and nitrogen BMP* – Compliance component #4 o	f 5 🛛 Not applicable
	Is the system operated under an Operating Permit?	f "yes", A below is required
	Is the system required to employ a Nitrogen BMP specified in the system design?   Yes No BMP = Best Management Practice(s) specified in the system design	f "yes", B below is required
	If the answer to both questions is "no", this section does not need to be completed	,
		<b>.</b>
	Compliance criteria:	
	a. Have the operating permit requirements been met?	
	b. Is the required nitrogen BMP in place and properly functioning?   Yes No	
	Any "no" answer indicates noncompliance.	
	Describe verification methods and results:	
	Attached supporting documentation:   Operating permit (Attach)	

siness Name: Ohm Excavating LLC	· · · · · · · · · · · · · · · · · · ·		Date.	6/5/2023
Soil separation – Compliance cor	npone	ent #5 o	f 5	
Date of installation (mm/dd/yyyy)	_⊠ Unkı	nown		
Shoreland/Wellhead protection/Food beverage lodging?	Yes	☐ No	Attached supporting documentation:	
beverage loaging?			Soil observation logs completed for the soil observation logs completed for the soil observation logs.     Soil observation logs completed for the soil observation logs.     Soil observation logs completed for the soil observation logs.     Soil observation logs completed for the soil observation logs.     Soil observation logs completed for the soil observation logs.     Soil observation logs completed for the soil observation logs.     Soil observation logs completed for the soil observation logs.     Soil observation logs completed for the soil observation logs.     Soil observation logs completed for the soil observation logs.     Soil observation logs completed for the soil observation logs.     Soil observation logs completed for the soil observation logs.     Soil observation logs completed for the soil observation logs.     Soil observation logs complete logs completed for the soil observation logs.     Soil observation logs complete log	ne report
Compliance criteria (select one):	T		☐ Two previous verifications of required	l vertical separation
5a.For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead	☐ Yes	☐ No*	☐ Not applicable (No soil treatment are	a)
Protection Area or not serving a food, beverage or lodging establishment:				
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.				
5b. Non-performance systems built April 1, 1996, or later or for non- performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:  Drainfield has a three-foot vertical separation distance from periodically	☐ Yes	Yes ⊠ No*	Indicate depths or elevations	
			A. Bottom of distribution media	20"
			B. Periodically saturated soil/bedrock	20"
			C. System separation	0"
			D. Required compliance separation*	36"
saturated soil or bedrock.*	,		*May be reduced up to 15 percent if alk Ordinance.	owed by Local
5c. "Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules 7080. 2350 or 7080.2400 (Intermediate Inspector License required ≤ 2,500 gallons per day; Advanced Inspector License required > 2,500 gallons per day)	☐ Yes	□ No*		
Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.				
*Any "no" answer above indicates the s failing to protect groundwater.	ystem i	is		
Describe verification methods and results:				

**Upgrade requirements:** (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, replaced, or its use discontinued, notwithstanding any local ordinance that is more strict. This provision does not apply to systems in shoreland areas, Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.

800-657-3864

Redox features found at 20"

# Consulte TES END CONSTRUCTION TO THE SERVICE TREATMENT PROGRAM

# Soil Observation Log

Project ID: 171061505f

71061505f

v 04.01.2019

lient:		,±.	Kevin Paulsrud	rud	······	Location	Location / Address:		13027 Red Elm Ridge	Ridge
oil parent n	oil parent material(s): (Check all that apply)	heck all th	nat apply)	 □	☐ Outwash ☐ Lacustrine	☐ Loess ☑ Till	i 🔲 Alluvium	m 🗌 Bedrock	c 📗 Organic Matter	Matter
andscape Pe	andscape Position: (check one)	( one )	□ Summit	Shoulder	ler 🖸 Back/Side Slope	e	☐ Toe Slope	Slope shape	Line	Linear, Linear
/egetation:		Lawn		Soil	Soil survey map units:		Slope %:		Elevation:	
Veather Con	Veather Conditions/Time of Day:	of Day:			Sunny, morning	ning		Date	90	06/05/23
Observation	Observation #/Location:			Soil	Soil Boring #1		Obse	Observation Type:	,	Auger
		Rock		1		(a) the state of t	(a) = 41 = 21 = 1		Structure	***************************************
Depth (in)	Texture	Frag. %	Matrix Color(s)	otor(s)	Mottle Color(s)	Redox Kind(s)	indicator(s)	Shape	Grade	Consistence
(	-	\0.00 \0.00	10YR 2/1	11				relinera	Week	F. 25
6-0	sandy Loam	×22%						O O O	1 Can	
;	Gravelly	Ş	10YR 3/3	/3				Cinalo amin	Ctructurology	9300
9-10	sand	%C\$>						जाहित्व हावा।	כן מכנמו בנבסס ו	2007
3		, and	10YR 3	3/2				Mode	Moderate	Erishle
16-20	Clay toam	%C\$>						DiOCAS	Modelate	Habke
ć	100	,35%	10YR 3	3/2	10YR 5/8	Concentrations	23	Rioclox	Moderate	Не Не Не
<b>†</b>	clay toam	×33%			10YR 6/2	Depletions	S1	Dittory	Modelate	וומסגב
	i									
		·								
Comments										
hereby cer	hereby certify that I have completed this work	complete	d this work	in accord	in accordance with all applicable ordinances, rules and laws.	cable ordinances	, rules and law	Š.		
	Olivia Ohm			0	Sed m			C1929/ L4034		6/5/2023
(Des	(Designer/Inspector)	or)			(Signature)			(License #)	·	(Date)

# Additional Soil Observation Logs



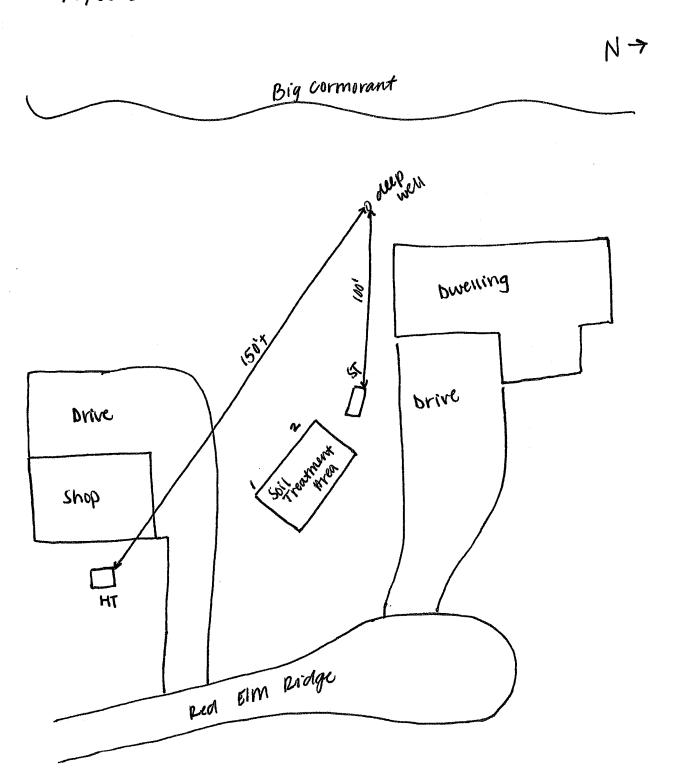
Project ID: 171061505f

	Client:		Kevi	Kevin Paulsrud	þ	Lo	Location / Address:	Address:		13027 Red Elm Ridge	Ridge
Soil parent n	Soil parent material(s): (Check all that apply)	neck all th	at apply)	0	☐ Outwash ☐ Lacustrine	SS907 □	四川	☐ Alluvium	m 🗌 Bedrock	ock   Organic Matter	: Matter
Landscape Po	Landscape Position: (check one)	( one)	□ Summit	Shoulder	er 🗵 Back/Side Slope	e 🗌 Foot Slope		☐ Toe Slope	Slope shape	Line	Linear, Linear
Vegetation:		Lawn		Soil	Soil survey map units:			Slope %:		Elevation:	
Weather Con	Weather Conditions/Time of Day:	of Day:			Sunny, morning	ning			Date:	90	06/05/23
Observation	Observation #/Location:			Soil	Soil Boring #2			Obser.	Observation Type:	1	Auger
		Rock			11.000	1		10),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Structure	
Depth (in)	lexture	Frag. %	Matrix Color(s)	olor(s)	Mottle Color(s)	Redox Kind(s)		indicator(s)  -	Shape	Grade	Consistence
	+	%3C√	10YR 2/1	2/1					Granudar	/se/W	Frishle
<u>-</u> -	Sandy toain	%CC>							Cianda	No.	
6	1	/0±C/	10YR 3/3	3/3					Cramilar	ЛеоМ	Frishlo
07-9	Sandy toam	23% 2007							9 2 2	Wear	
), O.	Gravelly	νους,	10YR 4/3	4/3					Single grain	Ctrictimaloce	9001
97-07	sand	%CC /							जा हुए हा या।	מרמו בובים	3500
6, %	1	,350	10YR 3/2	3/2					Blocky	Moderate	Friable
0c- <b>0</b> 7	Clay toalit	855							CIOCUS	וווסמרומור	
, oc	200	,350/	10YR 3/2	3/2	10YR 5/8	Concentrations	ons	25	Rlocky	Moderate	Friable
÷0c	Clay IDalli	97C5							A COUNTY		
Comments	Soil boring #2	was 8" hi	gher in ele	evation th	Comments Soil boring #2 was 8" higher in elevation than soil boring #1						



#### Ohm Excavating LLC #4034

13027 Red Elm Ridge 171041505 4/5/2023 Oluff m #1929







Becker County Planning & Zoning 915 Lake Ave Detroit Lakes, MN 56501 (218) 846-7314 www.co.becker.mn.us

#### Certificate of Compliance Inspection Report - Permit #: SS2023-1802

#### **Owner & Property Information**

Owner Name:	KATHLEEN MARIE MEAGHER TRUST
ooksale jarus tajagaja ja sajamaada salaksa oleksa oleksale ja perangan aan sala ala sala sa tasat 1999 ta 199	KATHLEEN MARIE MEAGHER TRUST
Mailing Address:	2103 44TH AVE S
	GRAND FORKS ND 58201
Parcel #:	171061505
Secondary Parcel #	

	The state of the s
Site Address:	13027 RED ELM RIDGE
Township - Sec/Twp/Rng:	LAKE EUNICE - 18/138/042
Legal Description:	Block 001 of RED ELM RIDGE 138 42 LOTS 4 & 5 REF: 17.1061.504
Designer:	Ohm Excavating, L4032 (Chris Ohm)
Installer:	Ohm Excavating LLC, L4034 (Chris Ohm)

#### **Inspector Verified Specifications**

I	Insp- Effluent Screen Installed:	No
I	Insp- Alarm Required:	Yes
	Insp- Lift Pump in System:	No
	Insp- Number of Bedrooms:	5

Insp- Tank Nbr/Size:	4/Four 1500 gallon tanks
Insp- Drainfield Type:	No Drainfield
Insp- Drainfield Size:	
Insp- Soil Verification:	#1:N/A #2:N/A #3:N/A

#### **Inspector Verified Setbacks**

75
50+
75
120+
200+

Insp- Drainfield Dist to Roa	d
Insp- Drainfield Dist to Nea	rest Prop Line
Insp- Drainfield Dist to Nea	rest Structure
Insp- Drainfield Dist to Well	
Insp- Drainfield Dist to OHV	V
Insp- Drainfield Dist to Pon	d/Wetland
Insp- Drainfield Dist to Pres	sure Line

#### **Certificate of Compliance**

(Yes) Certificate is hereby granted based upon the application, addendum from, plans, specifications and all other supporting data. With proper maintenance, this system can be expected to function satisfactory, however this is not a guarantee.

Certification Date: 08/16/2023

**Zoning Office Signature:** 

**Denise Gubrud - ISTS Inspector** 

<sup>\*</sup> Certificate of Compliance is not valid unless signed by a Registered Qualified Employee \*

#### Field Review Form Permit # SS2023-1802 **Property and Owner** Owner: KATHLEEN MARIE MEAGHER TRUST Parcel Number: 171061505 Site Address: 13027 RED ELM RIDGE Secondary Parcel: **Home Information** Does the structure contain any of the following Designer submitted Inspector verified elements? Garbage disposal: No Garbage disposal? X Dishwasher? Y Dishwasher: Grinder pump: Grinder pump? Y Lift pump in bsmt: Lift pump in basement? Y Number of bedrooms: 5 Review - Number of bedrooms: Effluent screen installed? Y Effluent screen N Mfr: Review - Alarm? (Y)N Alarm: Yes Type: Wi-Fi Type & Mfr: 1 Lift pump in system: No Review - Lift pump in system? Mfr: Component Information Tank size: 1500 gls each - 4 Infiltrator Tanks -1 trater Review - Tank nbr: 1 size: Mfr: 6000 gallons total Review - Drainfield type: Drainfield type: Drainfield size: Full size -Review - Drainfield status: none installed / next spring Reduced/warr. size -Review - Drainfield size: Absorption area size: Review - Absorption area size: Chamber type/num: Review - Chamber type: Num: Trench sqft/chamber -Review - Trench sqft/chamber: Drainfield rock depth: Review - Rock depth: Soil Verification Vertical separation verified Boring #1: Holding tanks Boring #2: Boring #3: Setback Verification Designer submitted Inspector verified Distance to... Tank Drainfield Tank Drainfield Road 75 ft N/A Nearest prop line 50 ft N/A Nearest structure 75 ft N/A Well 130 ft N/A 204 OHW 210 ft N/A SOOK Pond/Wetland N/A N/A Pressure line N/A N/A

Date System Installed: \$ 16 2023 Installer: Chis Chim Inspector: Denise gubrud

KATHLEEN MANIE MEASHER TRUST 13027 ROB ERM RINGE 1802 11/11/06/505 BIG CORMORANT LAKE 9/16/2023 4-1500 Infoltrator Tank WiFi alarm Set backs ok Dear Mar centify Danse gubrad 2 Bayloon Durany Garage 5KB INFILTRATOR 4-150096 HOLDING TAMES wi-Fi ALARM SHUP/STURVE . 1200 erm RIAGE OHM EXCANATING CLC #4034 Cana



#### **Design Summary Page**



1. PROJECT INFORMATION	v 03.15.2023
	st Project D: 171061505
Troporty owner.	Date: 08/03/23
Site Address: 13027 Red Elm Ridge	
Email Address: jerrymeagher04@gmail.com	
2. DESIGN FLOW & WASTE STRENGTH Attach waste s	strength data/estimated strength for Other Establishments
Design Flow: 750 GPD	Anticipated Waste Type: Residential
BOD: 170 mg/L	TSS: 60 mg/L Oil & Grease: 25 mg/L
Treatment Level: C Select	Treatment Level C for residential septic tank effluent
3. HOLDING TANK SIZING	
Minimum Capacity: Residential =1000 gal or 400 gal/bedroom, Oth	ner Establishment = Design Flow x 5.0, Minimum size 1000 gallons
Code Minimum Holding Tank Capacity: 2000 Gallor	ns with 1 Tanks or Compartments
Recommended Holding Tank Capacity: 6000 Gallor	ns with 4 Tanks or Compartments
Type of High Level Alarm: Wi-Fi notification	on (Set @ 75% tank capacity)
Comments: Signals both hor	meowner and septic maintainer
4. SEPTIC TANK SIZING	
A. Residential dwellings:	
Number of Bedrooms (Residential): 5	
Code Minimum Septic Tank Capacity: Gallo	ns with Tanks or Compartments
Recommended Septic Tank Capacity: Gallo	ns with Tanks or Compartments
<b>1</b>	Model/Type:
B. Other Establishments:	
B. Other Establishments:  Waste received by:	GPD x Days Hyd. Retention Time
Code Minimum Septic Tank Capacity: Gallo	ons with Tanks or Compartments
Recommended Septic Tank Capacity: Gallo	ons with Tanks or Compartments
	Model/Type:
* Other Establishments Require Department of Labor and Industry Ap	proval and inspection for Building Sewer *
5. PUMP TANK SIZING	
Soil Treatment Dosing Tank	Other Component Dosing Tank:  Pump Tank Capacity (Minimum): Gal
Pump Tank Capacity (Minimum): Gal	Tump rain supusity (
Pump Tank Capacity (Recommended):Gal	Fullip Talik capacity (Nessiman)
Pump Req: GPM Total Head ft	Pump Req: GPM Total Head ft
Supply Pipe Dia. in Dose Vol: gal	Supply Pipe Dia. in Dose Vol: Gal
* Flow measurement device must be incorporated for any system wit	th a pump: Elapsed Time Meter and/or Event Counter



#### **Design Summary Page**



6. SYSTEM AND DISTRIBU	TION TYPE		Project ID:	171061505		
Soil Treatment Type:			istribution Type	e:		
Elevation Benchmark:		ft Benc	hmark Location	): [		
MPCA System Type: Distribution Media:						
Type III/IV/V Details:					The state of the s	
7. SITE EVALUATION SUM	MARY:					
Describe Limiting Condition:	***************************************	1165164119411414141414111111111111111111				
Layers with >35% Rock Fra	gments? (ye			ow: % rock and layer t	hickness, amour	nt of
soil credit and any addi	tional inform	ation for addressin	g the rock fragm	ents in this design.		1
Note:						
	Depth	Depth		of Limiting Condition	ystem compliar	rce
Limiting Condition:			ft L	ft <b>Critical for s</b> Distribution Elevat	THE STATE OF THE S	•
Minimum Req'd Separation:		L	ft Elevatio	<del></del>		1
Code Max System Depth*:  *This is the maximum depth to the b	ottom of the di		ft equired separation.	ft Negative Depth (ft) require	s a mound.	***************************************
Designed Distribution Elev			um Sand Depth			
A. Soil Texture:			B. Organic Load	ling Rate (optional):	lbs/sq.	.ft/day (
C. Soil Hyd. Loading Rate:		GPD/ft <sup>2</sup> D:	Percolation Rat	e: MPI		· · · · · · · · · · · · · · · · · · ·
E. Contour Loading Rate:		Note:				
F. Measured Land Slope:		% Note:				
Comments:						
8. SOIL TREATMENT AREA	A DESIGN SU	MMARY				
Trench:		Cidoucii Decil		Trench W	idth	] <sub>ft</sub>
Dispersal Area	sq.ft	Sidewall Depth	[	Code Max. Trench Do		in
Total Lineal Feet	ft	No. of Trenches		Designed Trench D		J''' Jin
Contour Loading Rate	ft	Minimum Length		Designed Trench D		
Bed:	sq.ft	Sidewall Depth	in	Maximum Bed D	epth	]in
Dispersal Area	sq.it ft	Bed Length		Designed Bed D		in
Bed Width		Dea Feligar				
Mound: Dispersal Area	sq.ft	Bed Length	ft	Bed W	dth	]ft
Absorption Width	ft	Clean Sand Lift		Berm Width (0	1%)	ft
Upslope Berm Width	ft	Downslope Berm		Endslope Berm V	/idth	ft
Total System Length	ft	System Width		Contour Loading	Rate	gal/ft
/ I		e de la companya del companya de la companya del companya de la co			-[]	



#### **Design Summary Page**



			Projec	t ID:	1710	150	)5	<b>"</b>
At-Grade:					Dod we	, [	ft	
Dispersal Area	sq.ft	Bed Length	ft		Bed Wic	L		
Upslope Berm	ft Down	slope Berm	ft		ished Hei		ft	
System Length	ft End	slope Berm	ft	S	ystem Wid	ith	ft	_
Level & Equal Pressure Dist	tribution Soil Treat	ment Area						١
No. of Laterals	Latera	al Diameter	in		ral Spacin		ft	
Perforation Spacing	ft Peri	foration Diamet	ter		ack Volur		gal	
Min Dose Volume	gal Max Do	se Volume	ga	Total Dos	ing Volun	ie	gal	╛
Non-Level and Unequal Pre	essure Distribution	Soil Treatment	t Area				Minimum Dose	
Elevation Pig	pe Size Volume (gal/ft)				acing (in)		Volume gal	
Lateral 1							Maximum Dose Volume	
Lateral 2							gal	l
Lateral 3							<u> </u>	
Lateral 4							Total Dosing Volume	
Lateral 5 Lateral 6							gal	
L.				D. des				
9. Organic Loading and		At-Risk, HSW	or Type IV	Design				
Organic Loading to Soil Tro  A. Starting BOD Concent		V O 7 V Starti	ing BOD (mg	/I ) X 8.35 ÷ 1	.000.000			
	tration = Design Flow	/L X 8.35 ÷ 1,00	00.000 =	lbs.	BOD/day	(Org	ganic Loading Design	; )
gpd X  B. Organic Loading to So								
		X 0.7 X 8.35 ÷ 1		sq.f	t = [	-	lbs./day/s	qft
mg/L X HSW Technology Strength								
A. Starting BOD Concen		w X Starting BO	D (mg/L) X	8.35 ÷ 1,000,0	00			
0 gpd X		L X 8.35 ÷ 1,000		0.00000 lbs.	BOD/day	(HS	W Technology Design	1)
B. Target BOD Concents				35 ÷ 1,000,000	)			
gpd X	mg/	L X 8.35 ÷ 1,00	0,001 =	lbs.	BOD/day	(HS	W Technology Design	n)
	L	bs. BOD To Be	Removed:	lbs	BOD/day	(HS	W Technology Design	n)
Pretreatment Tec	chnology:						t or Exceed Targ	
Disinfection Tec					*Requi	red	for Levels A & B	
10. Comments/Special	Design Consideration	ons:						
Infiltrator Tanks (1500 gal			stalled			-		
IIII Kalada Falika (1999)	•							
I hereby certify that	t I have completed t	his work in acc	ordance wit	h all applicabl	e ordinan	ces,	rules and laws.	
		family	· ·		C1138		8/3/2023	
Ohm Excavating LLC / Ch (Designer)	hris Onm	(Signature	e)	<u> </u>	nse #)		(Date)	
(nepigner)		/O				1		



### **Septic System Management Plan for Holding Tank Systems**

The goal of a septic system is to protect human health and the environment by properly treating wastewater before returning it to the environment. Your holding tank system is designed to store your used water before it is recycled back into our lakes, streams and groundwater.

This management plan will identify the operation and maintenance activities necessary to ensure compliance with applicable rules and regulations. Some of these activities must be performed by you, the homeowner. Other tasks must be performed by a licensed septic maintainer. However, it is YOUR responsibility to make sure all tasks get accomplished in a timely manner.

The University of Minnesota's Septic System Owner's Guide contains additional tips and recommendations designed to extend the effective life of your system and save you money over time.

Proper septic system design, installation, operation and maintenance means safe and clean water!

Property ID: 17	1061505
License #: 403	4
License #: 4034	
Phone: 218-4	39-6428
Phone: 218-8	46-7314
Date Inspected:	
	Property ID: 17 License #: 403 License #: 4034 Phone: 218-4 Phone: 218-8 Date Inspected:

Keep this Management Plan with your Septic System Owner's Guide. The Septic System Owner's Guide includes a folder to hold maintenance records including pumping, inspection and evaluation reports. Ask your septic professional to also:

- Attach permit information, designer drawings and as-builts of your system, if they are available.
- Keep copies of all pumping records and other maintenance and repair invoices with this document.
- Review this document with your maintenance professional at each visit; discuss any changes in product use, activities, or water-use appliances.

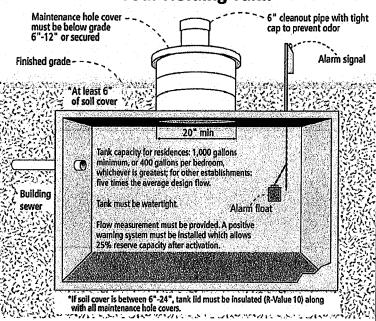
For a copy of the Septic System Owner's Guide, call 1-800-876-8636 or go to http://shop.extension.umn.edu/

http://septic.umn.edu

#### Septic System Management Plan For Holding Tank Systems



#### **Your Holding Tank**



Dwelling Type	Well Construction
Number of bedrooms:5  System capacity/ design flow (gpd):	Well depth (ft): Deep  Cased well Casing depth: Other (specify): Distance from septic (ft): 130 ft Is the well on the design drawing?  N
Holdin	g Tank
One tank: Tank volume: gallons Two tanks: Tank volume: 6000 gallons Tank is constructed of Infiltrator - Poly	□ Flow measurement device: □ Location: □ Alarm visual audible □ Reserve %: 50% of fin al tank
Service contract held by:  Service contract is attached to this management.	nt plan

#### Septic System Management Plan For Holding Tank Systems



#### **Homeowner Management Tasks**

These operation and maintenance activities are your responsibility. Use the chart on page 6 to track your activities.

Identify the service intervals recommended by your system designer and your local government. The tank assessment for your system will be the **shortest interval of these three intervals**. Your pumper/maintainer will determine if your tank needs to be pumped.

Tank capacity ÷ (# of occupants X 50 Gallons/day) = # of days between cleaning

OR

Within 24 hours of alarm signal

System Designer:	check every 365	days	My tank needs to	be emptied
Local Government:	check every 365	days	every as needed	days

#### Seasonally

- Monitor alarm daily make sure the alarm has not signaled. Alarms signal when your holding tank is nearly full; contact your maintainer.
- Measure and note your average daily water usage on page 5. Conserving water saves you money!
- Leaks. Check (listen, look) for leaks in toilets and dripping faucets. Repair leaks promptly.

#### **Annually**

- Establish a contract for tank cleaning services with a state licensed maintenance business.
- Caps. Make sure that all caps and lids are intact and in place. Inspect for damaged caps at least every fall. Fix or replace damaged caps before winter to help prevent freezing issues.
- Water conditioning devices. See Page 5 for a list of devices. When possible, discharge clear water sources to another location. Program the recharge frequency based on water demand (gallons) rather than time (days). Recharging too frequently will result in increased pumping costs.
- Review your water usage rate. Review the Water Use Appliance chart on Page 5. Discuss any major changes with your pumper/maintainer.

#### During each visit by a pumper/maintainer

- Ask if your pumper/maintainer is licensed in Minnesota.
- Make sure that your pumper/maintainer has clear access to the holding tank and completely empties the tank
- Ask your pumper/maintainer to accomplish the tasks listed on the Professional Tasks on Page 4.

#### Septic System Management Plan For Holding Tank Systems



#### **Professional Management Tasks**

These are the operation and maintenance activities that a pumper/maintainer performs to help ensure long-term performance of your system. Professionals should refer to the O/M Manual for detailed checklists for tanks, pumps, alarms and other components. Call 800-322-8642 for more details.

☐ Written record provided to homeowner after each visit.

#### **Plumbing/Source of Wastewater**

- Review the Water Use Appliance Chart on Page 5 with homeowner. Discuss any changes in water use and the impact those changes may have on the frequency of maintenance.
- Review and document water usage rates with homeowner.

#### **Holding Tanks**

- Maintenance hole lid. A riser is recommended if the lid is not accessible from the ground surface. Insulate the riser cover for frost protection.
- ☐ Liquid level. Check to make sure the tank is not leaking.
- □ Inspection pipes. Replace damaged caps.
- ☐ Alarm. Verify that the alarm works and that there is at least 25% reserve capacity.
- ☐ End of year seasonal property pumping. Remind homeowner of most frequent causes of tank and building sewer freeze-ups. Ensure that there are no "micro-sources" of water such as a high efficiency furnace or other dripping devices. Determine a logical winter water use plan that will not result in need for emergency visit(s).

#### All other components - inspect as listed here:

Wi-Fi Alarm System. 4 Infiltrator Tanks for a capacity of 6,000 gallons

#### Septic System Management Plan For Holding Tank Systems



#### Water-Use Appliances and Equipment in the Home

Appliance	Impacts on Holding Tank	Managemer	t Tips
Garbage disposal	Uses water and increases pumping frequency and expense.	Use of a garbage disposal is     Minimize garbage disposal u	
Washing machine	Uses water and increases pumping frequency and expense.	<ul> <li>Choose a front-loader or wat these units use less water tha</li> <li>Wash only full loads.</li> <li>Do laundry off site.</li> </ul>	
Dishwasher	Uses water and increases pumping frequency and expense.	Wash only full loads.	
Large bathtub (whirlpool)	Uses water and increases pumping frequency and expense.	Take short showers to conserve to con	ve water.
Clear Water Uses	Impacts on Holding Tank	Managemer	t Tips
High-efficiency	Drip may result in frozen pipes	Re-route water into a sump p	
furnace	during cold weather.	the house. Do not route furnational holding tank.	ace recharge to your
Water softener Iron filter Reverse osmosis	Uses water and increases pumping frequency and expense.		that is not sewage and ng tank. rees to another outlet,

#### **Maintenance Log**

Track maintenance activities here for easy reference. See list of management tasks on pages 3 and 4.

Activity	Date accomplished/measured			ıred	water ι	ısage				
Check daily for a period of time and week	dy once	avera	ige use	is det	ermin	ed:				
Water usage rate (gallons per day)										
Leaks: check for plumbing leaks										
Annually:										
Establish and maintain contract for holding tank pumping services										
Water use appliances – review use										

#### Septic System Management Plan For Holding Tank Systems



Water	Meter Reading and	I Tank Evacuation S	cneaule	
Date	Water Meter Reading (in gallons)	Tank Contents Removed?	Total Gallons Removed	
<u></u>	<del>, , , , , , , , , , , , , , , , , , , </del>			
<u> </u>	1			
	dia and a second se			
			•	
otes:				
itigation/corrective act	ion plan:			
				•
the owner of this SSTS, I understand izing the Management Plan. If requiessary corrective actions.  Operty Owner Signature:	nd it is my responsibility to prope ulrements in this Management p	rly operate and maintain the sev gn are not met, I will promptly n	page treatment system on this proof of the permitting authority and Date	perty, take つる
anagement Plan Prepared	i By: (HR15	Oth	Certification # //5	<u>'8</u>

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8/11/2023 ohn 11:30



Becker County Planning & Zoning 915 Lake Ave Detroit Lakes, MN 56501 (218) 846-7314 www.co.becker.mn.us

#### **Septic Permit**

Permit #: SS2023-1802

Owner & Prop	perty Information
Owner Name:	KATHLEEN MARIE MEAGHER TRUST
Mailing Address:	KATHLEEN MARIE MEAGHER TRUST 2103 44TH AVE S GRAND FORKS ND 58201
Phone #:	701-610-1015
Lake/River(1000 /300):	Yes
Lake/River Name:	Big Cormorant (Lake Eunice & Cormorant) [RD]
Pond/Wetland(50):	No

Parcel #:	171061505
Secondary Parcel #:	
Site Address:	13027 RED ELM RIDGE
Township - Sec/Twp/Rng:	LAKE EUNICE - 18/138/042
Designer:	Ohm Excavating, L4032 (Chris Ohm)
Installer:	Ohm Excavating LLC, L4034 (Chris Ohm)

Specifications	
Tank to be Installed:	Holding Tank
Total # Tanks Installed:	4
System Status:	Replacement System
System Serves:	Full-Time Dwelling
Number of Bedrooms:	5
Design Flow/GPD:	750
Garbage Disposal?	No
Size of Lift Pump:	
Size of Lift Line:	у кандарттанан и турка - 1811 г. од 110 г. повет на 1910 г. и повет од населени повет у 1915 г. повет повет од
Soil Sizing Factor:	CONTRACTOR CONTRACTOR VIOLATING CONTRACTOR C

Type of Drainfield:	handra de la companya
Full Size of Drainfield:	THE THE PERSON IS NOT THE PERSON IN THE PERS
Reduced/Warrantied Size:	American de management de la completa en la management de management de management de management de management
Absorbtion Area Size:	allico, decision selectronic del se sel decision se como consecuent del como con esta como con esta como con e
Rock Depth:	CONTRACTOR
Chamber Type and Number:	Met valence excellent. Service and a construction of service and a find ext
Chamber Trench SqFt/Chamber:	AND THE PROPERTY OF THE PROPER
Is System Pressurized?	and the same of th
Alarm?	Yes
Type of Alarm:	Wi-Fi

#### **Setbacks**

Road Type:	Public / Township
Tank Dist to Road:	75 ft
Tank Dist to Closest Prop Line:	50 ft
Tank Dist to Nearest Structure:	75 ft
Tank Dist to Well:	130 ft
Tank Dist to OHW:	210 ft
Tank Dist to Pond/Wetland:	N/A
Tank Dist to Pressure Line:	N/A

Right of Way Marked:	Yes
Drainfied Dist to Road:	N/A
Drainfied Dist to Closest Prop Line:	50 ft
Drainfield Dist to Nearest Structure:	N/A
Drainfield Dist to Well:	N/A
Drainfield Dist to OHW:	N/A
Drainfield Dist to Pond/Wetland:	N/A
Drainfield Dist to Pressure Line:	N/A

#### **Other Information**

Date Approved:	08/04/2023	
Permit Fee:	\$225.00	
Receipt Number:	253227322	
Date Paid:	08/07/2023 6:09 AM CDT	
Notes: Install 4 - 1500	gallon holding tanks. WiFi alarm	

**Zoning Office Signature:** 

Denise gubrud

\*\* Please schedule for inspection prior to installation! \*\*