Mississippi Headwaters Board
Meeting Agenda
Cass County Board Room Walker, MN

https://us02web.zoom.us/j/83537273520

January 27, 2023
10:00 am

10:00 AM

- **Call to Order/Pledge of Allegiance**
- **Officer Election- 2022 Officers-** Chair- Ted Van Kempen (Hubbard), Vice Chair- Davin Tinquist (Itasca), Sec./Treasurer- Steve Barrows.

10:05 AM Approve/Amend

- Agenda
- Consent Agenda – December ’22 Minutes & Expenses

Correspondence

- January Press Release
- DNR Acknowledgement email

Planning and Zoning (Actions)

- H1a23 Hilmer Variance Hubbard County

Action / Discussion Items:

- Set up budget committee meeting- Action
- Governor’s Budget- Discussion
- Executive Directors report- Discussion

Closed Meeting for Executive Director’s Annual Performance Evaluation

- Performance Review Summary
- Resolution 2023-01 (enclosed in Packet)

Misc: ☼ Legislature Update (if any) ☼ County Updates

Meeting Adjourned - Thank you

Mtgs: February 24, 2023 10:00 AM- Cass County Courthouse, Walker, MN

Attachment

Draft Minutes

Monthly Expenses

Mississippi Headwaters Board
December 16, 2022
Cass County Board Room
322 Laurel St.
Brainerd, MN

Optional interactive technology: https://us02web.zoom.us/j/88392024797

MEETING
MINUTES

Members present by Roll Call: Scott Bruns (Cass), Davin Tinquist (Itasca), Ted VanKempen (Hubbard), Dean Newland (Clearwater interactive), Craig Gaasvig (Beltrami), Steve Barrows (Crow Wing), Ann Marcotte (Aitkin interactive), and Tim Terrill (Executive Director).

Others Present: Allison White, Amy Kowalzek

Pledge of Allegiance

Chair Van Kempen asked if there were any additions to the agenda. None added. **M/S (Barrows/Bruns) to approve of the agenda. Motion carried unanimously.**

M/S (Tinquist/Barrows) to approve of the Consent agenda. Motion carried unanimously.

Correspondence
Tim provided the board with the December press release which discussed the Whiskey Creek project and support from Enbridge for environmental cleanup.

Planning and Zoning

M12a22- White Variance- Environmental Service Director Amy Kowalzek presented the board with the variance for Allison White to add a garage onto the existing home. Amy said that the Board of Adjustment approved of the variance providing the owner arrange for a stormwater management and shoreline review by the Morrison County Shoreland Specialist, and the owner will implement and maintain the practices recommended. Discussion ensued and Comm. Gaasvig moved for approval because it met the setback rules, has an existing, working septic, and doesn't exceed the existing impervious surface limit. Comm. Marcotte asked why the house was built closer to the Miss. river when it was in MHB jurisdiction, and Amy said that she researched that issue and the Morrison county director, at that time, said it wasn't within the scope of the MHB jurisdictional area. Tim said that our maps haven't changed since 1980 when the MHB was formed. Comm. Gaasvig said that it looks like there was a mapping error, or something else that caused this, but that is no longer an issue now. What's done is done and the variance meets our plan. Comm. Van Kempen noticed that the side of the garage would intrude on the side yard setback if the garage was installed. Landowner Allison White drew the attention of the board to another photo which outlined where the garage would go and the picture showed that it would not intrude. **M/S (Gaasvig/Marcotte) to approve of the White variance. Motion carried unanimously.**

Action/Discussion:

1. Tim gave the monthly executive director's report and said that he received an email from the Conservation Fund saying that their meeting went well with the DNR about Sheep Ranch, and the committee will recommend to the Commissioner to release the Sheep Ranch and Kabekona River Complex.
2. Tim Attended a DNR partners meeting in Bemidji, and they talked about various issues concerning the partners. The Keep it Clean campaign which focuses on keeping human waste and trash off the lakes during the ice fishing months was a well discussed topic.
3. Tim discussed that the Crow Wing county board heard discussion about the Dahler lake acquisition which is over 1200 acres and were pleased that the land would be donated to the county using the Miss. Headwaters Habitat Corridor Program funding. Comm. Barrows said that the project is located in Northern Crow Wing county and will provide logging revenue and recreational benefits to the users.

Recognition of Outgoing Board Members- The board recognized the board members that will no longer be attending the MHB board meetings due to election results. Comm. Ann Marcotte, Mike Wilson, and Davin Tinquist were or will be provided a Certificate of Appreciation for their diligent work on the MHB board. Several board members verbally expressed their appreciation for their work on the board and the outgoing board members expressed their gratitude and appreciation for working with the other board members.

County or Legislative Updates

Comm. Marcotte asked if anyone has heard about farmers having difficulty finding farm labor. She noted that she had read it in a newspaper. Comm. Barrows said that while Congress is addressing the issue with policy and funding, money is easy to get compared to getting workers.

Comm. Gaasvig said that Enbridge provided $13K to Beltrami county for fixing the High Banks project on the Miss. river. This will help compliment the funding that MHB provided to them.

Comm. Van Kempen said that with the new pipeline going through Hubbard County, they are intending to use it to reduce taxes and rehabilitate homes. He said it is much cheaper to renovate a home than build new ones.

M/S (Barrows/Gaasvig) to adjourn. Motion carried unanimously.

_____ _____

Chairman of the Board Executive Director Tim Terrill

December SFY'23 Budget Summary

		YTD spending/reimbursement	Projected Budget	% of budget spent	
Revenues:	**Monthly Amount**				**Notes**
Governor's DNR grant (53290)		$58,776.03	$124,000.00	47.40%	non competitive quarterly reimbursement
LSOHC grant (53290)		$4,761.46	$9,000.00	52.91%	LSOHC reimbursement
Guidebook sales (58400)			$200.00	0.00%	reimbursment for Guidebook sales
Enbridge program (58300)			$12,000.00	0.00%	enbridge reimbursement
Miscell. Other revenue (58300)			$3,600.00	0.00%	AIS reimbursement
MCIT Dividend (58300)		$156.00	$83.00	187.95%	MCIT refund
County Support (52990)			$12,000.00	0.00%	8 county support
LCCMR acquisition			$500.00	0.00%	competitive reimbursement
Total	**$0.00**	**$4,917.46**	**$36,883.00**		

Expenses:	**Monthly Amount**			**Notes**
Salaries/Benefits FICA/Med/PERA/LIFE/LTD/Hlth/WC(61000)	$ 11,692.36	$45,098.77	$105,064.00	42.93%	reimbursed by Gov. DNR grant
MCIT insurance/work comp/liability (61500)			$2,492.00	0.00%	reimbursed by Gov. DNR grant
MHB board Per Diem (62680)	$ 250.00	$1,050.00	$2,200.00	47.73%	reimbursed by Gov. DNR grant
Hotel/Meals/travel exp. (63340)	$ 18.68	$411.98	$550.00	74.91%	AMC meal
Commissioner Mileage (62720)	$ 175.00	$935.63	$1,600.00	58.48%	reimbursed by Gov. DNR grant
Employee Mileage (63320)	$ 313.89	$1,212.47	$3,000.00	40.42%	reimbursed by Gov. DNR grant
Professional Services (62990)	$ 525.00	$2,625.00	$30,000.00	8.75%	CW financial
Office supplies/operations (64090)	$ 152.79	$1,042.93	$1,350.00	77.25%	telephone, printer ink
Training & Registration Fees (63380)	$ 400.00		$750.00	0.00%	reimbursed by Gov. DNR grant AMC conf. registration
Total	**$ 13,527.72**	**$52,376.78**	**$147,006.00**		

Governor's DNR grant is always $124K every year

LSOHC grant is around $6K to $8K every year

*The total under revenue does not reflect the $124K because it is a non-competitive grant, and it doesn't always fall in the fiscal year.

ACCOUNT DETAIL HISTORY FOR 2022 12 TO 2022 12

ORG / YR/PR	OBJECT / JNL	PROJ / EFF DATE	SRC	REF1	REF2	REF3	CHECK #	OB	AMOUNT	NET LEDGER BALANCE	NET BUDGET BALANCE
74830	61000	Salaries & Wages - Regular									
								REVISED BUDGET			.00
								PER 01	5,523.01	5,523.01	
								PER 02	6,012.04	11,535.05	
								PER 03	5,802.46	17,337.51	
								PER 04	5,802.46	23,139.97	
								PER 05	5,802.47	28,942.44	
								PER 06	5,802.46	34,744.90	
								PER 07	8,703.69	43,448.59	
								PER 08	5,802.47	49,251.06	
								PER 09	5,802.48	55,053.54	
								PER 10	5,802.46	60,856.00	
								PER 11	5,802.47	66,658.47	
22/12	165	12/02/22	PRJ	pr1202	1221202	1221202	1221		2,901.23	69,559.70	
	pay120222	WARRANT=221202 RUN=1 BI-WEEKL									
22/12	676	12/16/22	PRJ	pr1216	1121622	1121622	1121		2,901.23	72,460.93	
	pay121622	WARRANT=121622 RUN=1 BI-WEEKL									
22/12	1351	12/30/22	PRJ	PR1230	1221230	1221230	1221		2,901.23	75,362.16	
	pay123022	WARRANT=221230 RUN=1 BI-WEEKL									
		LEDGER BALANCES --- DEBITS:			75,362.16		CREDITS:	.00	NET:	75,362.16	
74830	61200	Active Insurance									
								REVISED BUDGET			.00
								PER 01	1,709.26	1,709.26	
								PER 02	1,709.26	3,418.52	
								PER 03	1,709.96	5,128.48	
								PER 04	1,709.96	6,838.44	
								PER 05	1,711.36	8,549.80	
								PER 06	1,709.96	10,259.76	
								PER 07	1,709.96	11,969.72	
								PER 08	1,709.96	13,679.68	
								PER 09	1,709.96	15,389.64	
								PER 10	1,709.96	17,099.60	
								PER 11	1,709.96	18,809.56	
22/12	165	12/02/22	PRJ	pr1202	1221202	1221202	1221		866.91	19,676.47	
	pay120222	WARRANT=221202 RUN=1 BI-WEEKL									
22/12	676	12/16/22	PRJ	pr1216	1121622	1121622	1121		843.05	20,519.52	
	pay121622	WARRANT=121622 RUN=1 BI-WEEKL									
		LEDGER BALANCES --- DEBITS:			20,519.52		CREDITS:	.00	NET:	20,519.52	

ACCOUNT DETAIL HISTORY FOR 2022 12 TO 2022 12

ORG / YR/PR	OBJECT / JNL	PROJ / EFF DATE	SRC	REF1	REF2	REF3	CHECK #	OB	AMOUNT	NET LEDGER BALANCE	NET BUDGET BALANCE
74830	61300	Employee Pension & FICA									
							REVISED BUDGET				.00
							PER 01		796.85	796.85	
							PER 02		870.93	1,667.78	
							PER 03		839.18	2,506.96	
							PER 04		839.17	3,346.13	
							PER 05		839.18	4,185.31	
							PER 06		839.17	5,024.48	
							PER 07		1,278.70	6,303.18	
							PER 08		839.18	7,142.36	
							PER 09		839.17	7,981.53	
							PER 10		839.17	8,820.70	
							PER 11		839.18	9,659.88	
22/12	165	12/02/22	PRJ	pr1202	1221202	1221202	1221		419.59	10,079.47	
	pay120222	WARRANT=221202	RUN=1 BI-WEEKL								
22/12	676	12/16/22	PRJ	pr1216	1121622	1121622	1121		419.58	10,499.05	
	pay121622	WARRANT=121622	RUN=1 BI-WEEKL								
22/12	1351	12/30/22	PRJ	PR1230	1221230	1221230	1221		439.54	10,938.59	
	pay123022	WARRANT=221230	RUN=1 BI-WEEKL								
	LEDGER BALANCES --- DEBITS:		10,938.59		CREDITS:		.00		NET:	10,938.59	
74830	62100	Telephone									
							REVISED BUDGET				.00
							PER 01		57.37	57.37	
							PER 02		56.83	114.20	
							PER 03		56.91	171.11	
							PER 04		57.66	228.77	
							PER 05		57.84	286.61	
							PER 06		67.83	354.44	
							PER 07		60.99	415.43	
							PER 08		60.32	475.75	
							PER 09		63.92	539.67	
							PER 10		62.83	602.50	
							PER 11		55.00	657.50	
22/12	337	12/13/22	API	006205		183589		32763	6.82	664.32	
	W C121322	MONTHLY BILLING				CONSOLIDATED TELECOM					
22/12	676	12/16/22	PRJ	pr1216	1121622	1121622	1121		55.00	719.32	
	pay121622	WARRANT=121622	RUN=1 BI-WEEKL								
22/12	678	12/20/22	API	006205		183771		32783	6.74	726.06	
	W C122022	MONTHLY SERVICES				CONSOLIDATED TELECOM					
	LEDGER BALANCES --- DEBITS:		726.06		CREDITS:		.00		NET:	726.06	

ACCOUNT DETAIL HISTORY FOR 2022 12 TO 2022 12

ORG / YR/PR	OBJECT / JNL	PROJ / EFF DATE	SRC	REF1	REF2	REF3	CHECK #	OB	AMOUNT	NET LEDGER BALANCE	NET BUDGET BALANCE
74830	62680	Non-Employee Per Diems									
							REVISED BUDGET				.00
							PER 02		150.00	150.00	
							PER 03		550.00	700.00	
							PER 05		150.00	850.00	
							PER 06		200.00	1,050.00	
							PER 07		250.00	1,300.00	
							PER 09		300.00	1,600.00	
							PER 11		500.00	2,100.00	
22/12	905	12/20/22	API	003356		183961		32829	50.00	2,150.00	
	W A122022	TED VANKEMPEN MHB PERDIEM/MILE HUBBARD COUNTY TREAS									
22/12	905	12/20/22	API	002534		183963		32832	50.00	2,200.00	
	W A122022	DEAN NEWLAND 12/10/22				NEWLAND, DEAN					
22/12	905	12/20/22	API	001099		183965		32830	50.00	2,250.00	
	W A122022	ANN MARCOTTE				MARCOTTE, ANNE					
22/12	905	12/20/22	API	002809		183966		32834	50.00	2,300.00	
	W A122022	DAVIN TINQUIST 12/16/2022				TINQUIST, DAVIN C					
22/12	905	12/20/22	API	003257		183967		32828	50.00	2,350.00	
	W A122022	CRAIG GAASVIG 12/16/22				GAASVIG, CRAIG					
	LEDGER BALANCES --- DEBITS:				2,350.00	CREDITS:		.00	NET:	2,350.00	
74830	62720	Non-Employee Mileage									
							REVISED BUDGET				.00
							PER 02		198.90	198.90	
							PER 03		359.19	558.09	
							PER 05		164.97	723.06	
							PER 06		227.92	950.98	
							PER 07		210.00	1,160.98	
							PER 09		216.88	1,377.86	
							PER 11		508.75	1,886.61	
22/12	905	12/20/22	API	003356		183961		32829	36.25	1,922.86	
	W A122022	TED VANKEMPEN MHB PERDIEM/MILE HUBBARD COUNTY TREAS									
22/12	905	12/20/22	API	002809		183966		32834	75.00	1,997.86	
	W A122022	DAVIN TINQUIST 12/16/2022				TINQUIST, DAVIN C					
22/12	905	12/20/22	API	003257		183967		32828	63.75	2,061.61	
	W A122022	CRAIG GAASVIG 12/16/22				GAASVIG, CRAIG					
	LEDGER BALANCES --- DEBITS:				2,061.61	CREDITS:		.00	NET:	2,061.61	

ACCOUNT DETAIL HISTORY FOR 2022 12 TO 2022 12

ORG / YR/PR	OBJECT / JNL	PROJ / EFF DATE	SRC	REF1	REF2	REF3	CHECK #	OB	AMOUNT	NET LEDGER BALANCE	NET BUDGET BALANCE
74830	62990		Prof. & Tech. Fee - Other								
							REVISED BUDGET				.00
							PER 01		2,080.20	2,080.20	
							PER 02		595.00	2,675.20	
							PER 03		92,098.80	94,774.00	
							PER 04		6,725.98	101,499.98	
							PER 05		1,818.08	103,318.06	
							PER 06		11,820.00	115,138.06	
							PER 07		11,986.66	127,124.72	
							PER 08		1,120.00	128,244.72	
							PER 09		525.00	128,769.72	
							PER 10		5,997.50	134,767.22	
							PER 11		724.78	135,492.00	
22/12	1779	12/30/22	GEN						525.00	136,017.00	
	RECURRING	FINANCIAL SERVICE									
	LEDGER BALANCES --- DEBITS:				136,017.00		CREDITS:	.00	NET:	136,017.00	
74830	63320		Employee Mileage								
							REVISED BUDGET				.00
							PER 01		239.96	239.96	
							PER 02		90.97	330.93	
							PER 03		345.21	676.14	
							PER 04		386.81	1,062.95	
							PER 05		240.60	1,303.55	
							PER 06		116.42	1,419.97	
							PER 07		405.00	1,824.97	
							PER 08		345.26	2,170.23	
							PER 09		241.82	2,412.05	
							PER 10		220.39	2,632.44	
22/12	1011	12/21/22	GNI						73.13	2,705.57	
	WF OOP		1434 - Aitkin, pallisade								
			TIM TERRILL - OOP								
22/12	1011	12/21/22	GNI						66.25	2,771.82	
	WF OOP		1434 - monthly board mtg								
			TIM TERRILL - OOP								
22/12	1011	12/21/22	GNI						65.63	2,837.45	
	WF OOP		1434 - MHB monthly mtg								
			TIM TERRILL - OOP								
22/12	1787	12/21/22	GEN						40.38	2,877.83	
	WF OOP		TIM T MILEAGE								
22/12	1787	12/21/22	GEN						30.94	2,908.77	
	WF OOP		TIM T MILEAGE								
22/12	1787	12/21/22	GEN						37.56	2,946.33	
	WF OOP		TIM T MILEAGE								
	LEDGER BALANCES --- DEBITS:				2,946.33		CREDITS:	.00	NET:	2,946.33	

ACCOUNT DETAIL HISTORY FOR 2022 12 TO 2022 12

ORG / YR/PR	OBJECT / JNL	PROJ / EFF DATE	SRC	REF1	REF2	REF3	CHECK #	OB	AMOUNT	NET LEDGER BALANCE	NET BUDGET BALANCE
74830	63340	Hotel & Meals Travel Expense									
							REVISED BUDGET				.00
							PER 01		303.48	303.48	
							PER 02		9.33	312.81	
							PER 03		10.19	323.00	
							PER 04		16.35	339.35	
							PER 06		20.92	360.27	
							PER 07		29.00	389.27	
							PER 08		9.24	398.51	
							PER 09		9.60	408.11	
							PER 11		346.14	754.25	
22/12	1234	12/21/22	GNI						18.68	772.93	
	BREM PCARD meal at AMC conference										
		TIM TERRILL - TGI FRIDAYS 2687									
	LEDGER BALANCES --- DEBITS:					772.93	CREDITS:	.00	NET:	772.93	
74830	63360	Other Travel Expenses									
							REVISED BUDGET				.00
22/12	524	12/13/22	API	102987		183596		32767	400.00	400.00	
	W A1213202 2022 AMC Conf - Terrill					ASSOCIATION OF MN					
22/12	2113	12/13/22	APM	102987		183596		32767	-400.00	.00	
	MOD INV 2022 AMC Conf - Terrill					ASSOCIATION OF MN					
	LEDGER BALANCES --- DEBITS:					400.00	CREDITS:	-400.00	NET:	.00	
74830	63380	Training & Registration Fees									
							REVISED BUDGET				.00
							PER 05		345.00	345.00	
22/12	2113	12/13/22	APM	102987		183596		32767	400.00	745.00	
	MOD INV 2022 AMC Conf - Terrill					ASSOCIATION OF MN					
	LEDGER BALANCES --- DEBITS:					745.00	CREDITS:	.00	NET:	745.00	
74830	64090	Office Supplies									
							REVISED BUDGET				.00
							PER 02		1.76	1.76	
							PER 03		34.72	36.48	
							PER 04		35.81	72.29	
							PER 06		18.09	90.38	
							PER 07		32.20	122.58	
							PER 08		368.18	490.76	

ACCOUNT DETAIL HISTORY FOR 2022 12 TO 2022 12

ORG / YR/PR	OBJECT / JNL	PROJ / EFF DATE	SRC	REF1	REF2	REF3	CHECK #	OB	AMOUNT	NET LEDGER BALANCE	NET BUDGET BALANCE
							PER 09		366.44	857.20	
							PER 11		171.81	1,029.01	
22/12	1234	12/21/22	GNI						84.23	1,113.24	
BREM PCARD printer ink											
TIM TERRILL - THE OFFICE SHOP BRAINERD											
LEDGER BALANCES --- DEBITS:					1,113.24	CREDITS:		.00	NET:	1,113.24	
GRAND TOTAL --- DEBITS:					253,952.44	CREDITS:		-400.00	NET:	253,552.44	

31 Records printed

** END OF REPORT - Generated by Korie Wiggins **

IMMEDIATE PRESS RELEASE 1/3/23

Media Contact
Tim Terrill
218-824-1189
timt@mississippiheadwaters.org
www.mississippiheadwaters.org
322 Laurel St.
Brainerd, MN 56401

Mississippi Headwaters Board Makes Strategic Decision to Align with Existing Systems

In high school or college biology class you learned about how one animals lifecycle interacts with another animals lifecycle at a critical point to help both animals simultaneously. For some of you that brings back fond memories of school, but did you know that this happens at an organizational level as well? The Miss. Headwaters Board (MHB) at their November meeting discussed how their executive director could work with counties to learn how the programs of MHB can work with the One Watershed One Plan (1W1P) program. MHB executive director Tim Terrill said that 1W1P is a statewide program that is geographically changing how local counties deal with water quality and habitat issues, and suggested that the MHB hold a meeting with partners to discuss how we can provide resources to the existing program. He said by having partners in a room they could discuss the 1W1P and learn what it is; what it's goals are; and what geography MHB can help in with their programs. Instead of one organism helping another, its one organization helping another organization to accomplish mutual goals. The board saw the value in this discussion and by consensus approved of the meeting. This is an example of how diverse and complicated government systems can congregate and work together for the public good.

From: Damon, Susan (DNR) <susan.damon@state.mn.us>
Sent: Tuesday, December 20, 2022 12:17 PM
To: Kim M. Berns-Melhus <kberns@conservationfund.org>
Cc: Kathy DonCarlos (KathyD@NorthernWatersLandTrust.org) <kathyd@northernwaterslandtrust.org>; 'Bob McGillivray' <Bob.McGillivray@tpl.org>; Sherman-Hoehn, Katherine (DNR) <katherine.sherman-hoehn@state.mn.us>
Subject: Sheep Ranch and Kabekona River Complex Projects

Hi Kim,

Thank you again for allowing us to review the TCF-Potlatch purchase agreement and TCF's settlement statement on December 6, 2022. Thank you as well for providing us with the financial documentation we requested and for answering our questions relating to TCF's acquisition from Potlatch and TCF's cost allocations.

We have now completed our review of TCF's documentation and property tax records. The DNR will agree to accept the Sheep Ranch and Kabekona River Complex properties as gifts from TPL and NWLT subject to all grant requirements and subject to DNR's approval of title and other due diligence requirements.

I have signed the SRA for Kabekona River Complex and provided it to the Grants Unit. NWLT and TPL should coordinate with the Grants Unit on next steps.

Have safe and happy Holidays.

Best regards,

Susan

Susan E. Damon
Assistant Director | Division of Lands & Minerals

Planning and Zoning

H1a23- Hilmer Variance

RECEIVED AUG 2 9 2022

Variance Application

Hubbard County Environmental Services
301 Court Ave., Park Rapids, MN 56470
Phone: 218.732.3890
www.co.hubbard.mn.us/departments/environmental_services/index.php

This form must be legibly completed in INK.

Applicant name(s): Lori Lynn Hilmer DBA Shangri-La Resort Date: 8.29.2022

Owner name(s) (if different from applicant): _____

Mailing address (PO Box/Street, City, State, Zip): 32326 Wolf Lake Rd Cass Lake MN 56633

E911 property address: _____

Phone: 218.209.6332 Alt. phone: 218 335-8858 Email: shangrilaresort@gmail.com

Tax parcel number(s): 07.01.02300 & 07.01.02910

Legal description: Shangri-La Resort (see deed)

Sect: 01 Twp: 145 Rng: 032 Lake/river name: Wolf Lake Is this request after-the-fact? ● Yes ○ No

Place an "X" by the ordinance(s) and provide the section(s) of said ordinance(s) from which you are requesting a variance.

[X]	Shoreland Management Ordinance	Section(s): 502.2 1012
[ ]	Subdivision Ordinance	Section(s): 701 A
[ ]	Sign Ordinance	Section(s): 901.2
[ ]	Subsurface Sewage Treatment System	Section(s): 1104
[ ]	Other _____	Section(s): 502.1

Explain your requested variance need(s): Give details of the type, size, and purpose of proposed changes. Explain why you cannot complete the project by permit as the burden is on the applicant to show a practical difficulty. Attach additional sheets labeled "Variance Request", if necessary.

After-the-Fact Variance of 3 items listed in 4/29/2022 letter from Hubbard Co Enviro Services w/ corrective option #1

Please see variance request attachments:

1. fire ring platforms Variance request 1:A-G
2. RV " " 2:A-O
3. Garage & deck " " 3:A-E

Applicant Statement

I have read and fully understand the above instructions. I hereby make application for a variance, agreeing to do all such work in accordance with all Hubbard County Ordinances. In making this application, I hereby affirm that I am the fee title owner of the above-described property or the authorized agent thereof, and I agree to this application and warrant and assert that I am authorized by ownership and/or law to apply for the variance in question. By signing this application, I hereby certify that the information contained in this application is a true, accurate and complete representation of facts and conditions concerning the proposed variance application. I hereby state and affirm that any and all applications, sketches, surveys, and all other attachments and documents submitted herewith are true and accurate. I understand that if any of the information provided by me in this application is later found or determined by the County to be inaccurate, the County may revoke the variance and/or any accompanying permit based upon the supplying of inaccurate information. I understand and agree that in making application for a variance, I am granting permission to Hubbard County, at reasonable times and in a reasonable manner, to enter the land and premises that are the subject of this application to determine compliance of that application with any applicable county, state, or federal laws, statutes, or ordinances. I certify and agree that I will comply with any and all conditions imposed in connection with the approval of the application. I understand that I may be required to submit additional property descriptions, property surveys, site plans, building plans, or other information as deemed necessary by the County for proper consideration of the request before the application is deemed complete or acted upon.

Signature of applicant(s): Lori Lynn Hilmer

For Office Use:

Application date: 9/26/2022 Filing acknowledged by: EL Receipt #: 34271 App. #: 30-V-22

Variance Application

Hubbard County Environmental Services
301 Court Ave., Park Rapids, MN 56470
Phone: 218.732.3890
www.co.hubbard.mn.us/departments/environmental_services/index.php

Note: Place an "X" by each item below that applies to your request. Then, fill out **only** the applicable following section(s) that apply, as directed. **If a section does not apply to your request, leave it blank.**

What is the reason(s) for applying for the variance? Place an "X" by each applicable item.

- [X] Setback issues: complete Section 1
- [X] Land or vegetative alteration: complete Section 2
- [ ] Lot size not in compliance with minimum Ordinance standards: complete Section 3
- [ ] Alteration to nonconforming structure: complete Section 4
- [ ] Other: attach separate sheet explaining variance request

Section 1

Check the item(s) from which you are requesting a variance and fill in the proposed setback distance. Setbacks are measured to the nearest point on a structure which can be the eave overhang or an attached deck/platform.

- [X] Ordinary High Water Mark (OHWM) — Proposed Setback 20 ft fire ring
- [X] Lot line — Proposed Setback 100 ft RV
- [ ] Road Right of Way Twp Co. State — Proposed Setback 99 ft Deck
- [ ] Crest of bluff — Proposed Setback _____ ft
- [ ] Septic system components **(new SSTS site design must accompany variance application)**

Section 2

What is your land alteration? Check all categories that apply.

- [X] Vegetative alteration
- [ ] Grading/filling
- [ ] Other (Attach separate sheet explaining the land alteration)

Note: An additional cross-section sketch showing L, W, and H dimensions and an itemized list showing volume (cubic yds.) of all proposed grading/filling must accompany application.

Section 3

When was your lot created (month/day/year)? 1950's 8/15/1975 - first variance (This information can be found in your abstract of title. A copy of either this first deed or page in the abstract must be included in your application.)

Note: An ISTS site design showing your proposed building site, well location, a primary drainfield site, and an alternate drainfield site must be included in your application for a lot size variance.

Section 4

Note: A sketch showing L, W, and H dimensions of all portions of the existing and proposed structure(s) and addition(s) must be included in your application.

Circle all that apply and fill in requested information:

Existing structure	**Proposed addition(s)**
Foundation: basement, crawlspace, slab on grade	Foundation: basement, crawlspace, slab on grade
Stories above ground: ground level, 1 ½, two	Stories above ground: ground level, 1 ½, two
Existing structure height: ___ ft	Proposed addition(s) height: ___ ft
Existing # bedrooms __	Final # bedrooms after remodel __

Overall change in roof height when project is completed: ___ ft

SSTS Permits

From: Shangri-La Resort <shangrilaresort@gmail.com>
Sent: Tuesday, September 20, 2022 10:39 PM
To: SSTS Permits
Subject: Shangri-La Resort variance

Hubbard County Environmental Services

This letter is a response to your September 1, 2022 letter requesting further clarification to complete the Aug 29, 2022 ATF variance application on parcels 07.01.02300 and 07.01.02910 at Shangri-La Resort.

1.a) Yes, we intend to keep Workamper RV site #4. We plan to tie into nearby #8 septic line. Currently they use Bemidji RV dump station. The site will be used as extra spot for spring help or a single work kamper during the summer.
1.b) RV camper#5 is solely used for personal use and not used as a dwelling unit.
1.c) Please see attached document for cabin,bedrooms and occupancy.
A flow meter was installed during peak resort season for previous variance requested by your department. Results showed only 50% usage for septic flow capacity. At that time of reading all resort laundry was done on-site. We were willing to upgrade septic but it was not needed. Our recent septic inspection was done during busy season and high lake levels and functioning well.
H&R Septic design will be out on Thursday, Sept 22 for on-site visit and have septic design completed for Monday variance deadline.

Based on your statement, we do not wish to file another variance to add our neighboring 20 acres to resort property. It will remain as green space.

Please let me know if this information completes your additional requests to complete application so we can meet Monday deadline. Thank you:)

Respectfully,

Lori Lynn Hilmer

Beautiful Shangri-La Resort
32326 Wolf Lake Road
Cass Lake, Minnesota 56633
218.209.6332 text/cell
Lori Lynn Hilmer
www.shangri-la-resort.net
Shangrilaresort@gmail.com

RECEIVED SEP 2 2 2022

Revision #1 - 9.22.22

Cabins	Bedrooms	Min-Maximum Occupancy
Deer #1	1	2-4
Hummingbird #2	3	6-8
Duck #3	2	4-6
Eagle #4 A & B	3	6-8
Bear #5	2	4-6
Wolf #6	2	4-6
Fox #7	2	4-6
Loon #8	4	8-10
House #1 Dwelling	2	4-6
	21	42-60 guests

ATF Variance items		
Work Kamper RV #1	1	1-2
" " RV #2	1	1-2
Winter Camper RV #3	1	1-2
Work Kamper RV #4	1	1-1
Kids Moondance Camper RV #5	Ø	Ø-Ø
Art Studio Garage #2 Dwelling	1	1-2
		5-9

Avg Hospitality
Occupancy rate 65-80%

47-69 = TOTAL

Please take in to consideration:

- Only open 6 months - May 1st to Oct 31.
- Removed Valley cabin #9, = 2 bedroom 4-6 guests.
- We do not allow cabin cramming & have not been at your 100% maximum capacity numbers.
- Our bedrooms are small & people like own space.
- We hire out laundry - greatly reducing septic volume
- No resturant or bar = less headaches & septic useage

Lori Lynn 218.209.6332
Shangri-La Resort

Mail body: Fwd: campfire ring summary Variance Request 1A

---------- Forwarded message ---------
From: **Shangri-La Resort** <shangrilaresort@gmail.com>
Date: Mon, Aug 29, 2022 at 10:57 AM
Subject:
To: Lori Lynn <shangrilaresort@gmail.com>

Campfire Ring

Replaced failing, uneven pavers around fire pit with concrete for durability, guest safety and environmental wellness.

The cracked pavers created a sink hole area. During heavy rains fire pit ash washed directly into lake. Now flows toward driveway of compact sand for excellent drainage. Fire pit #1 has removable pit and #2 has metal bottom to avoid ground contamination.

Campfire ring #1 was completed over 7 years ago and #2 around five years.

This wasn't a building and sidewalks didn't need permits when I called.

The hardship would be physically removing. The improvement was expensive and an increased safety measure on commercial property.

We do our best here to be good stewards of the lake n land. Our place is vintage and isn't fertilized to the max feeding lake weeds. We compost, we recycle, garden and reduce waste and are not rule breakers. We live a simple life.

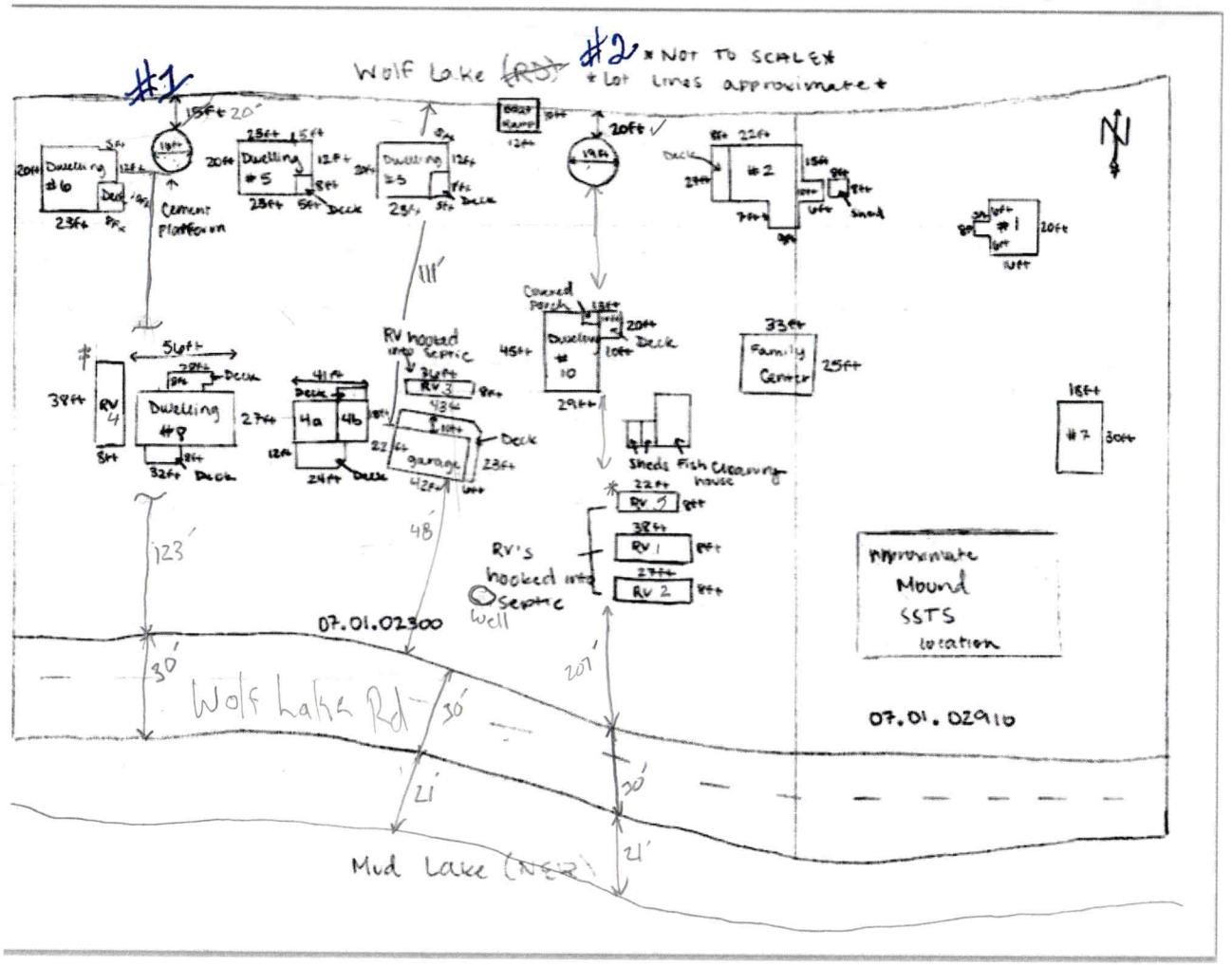
We have enjoyed providing 25 years of " Minnesota Nice" lake cabin experience to our hard working guests.

Please accept your corrective option #1 to allow fire rings to remain with permit process.

Thank you!

Mail body: SLR property map dark

Variance Request 1B

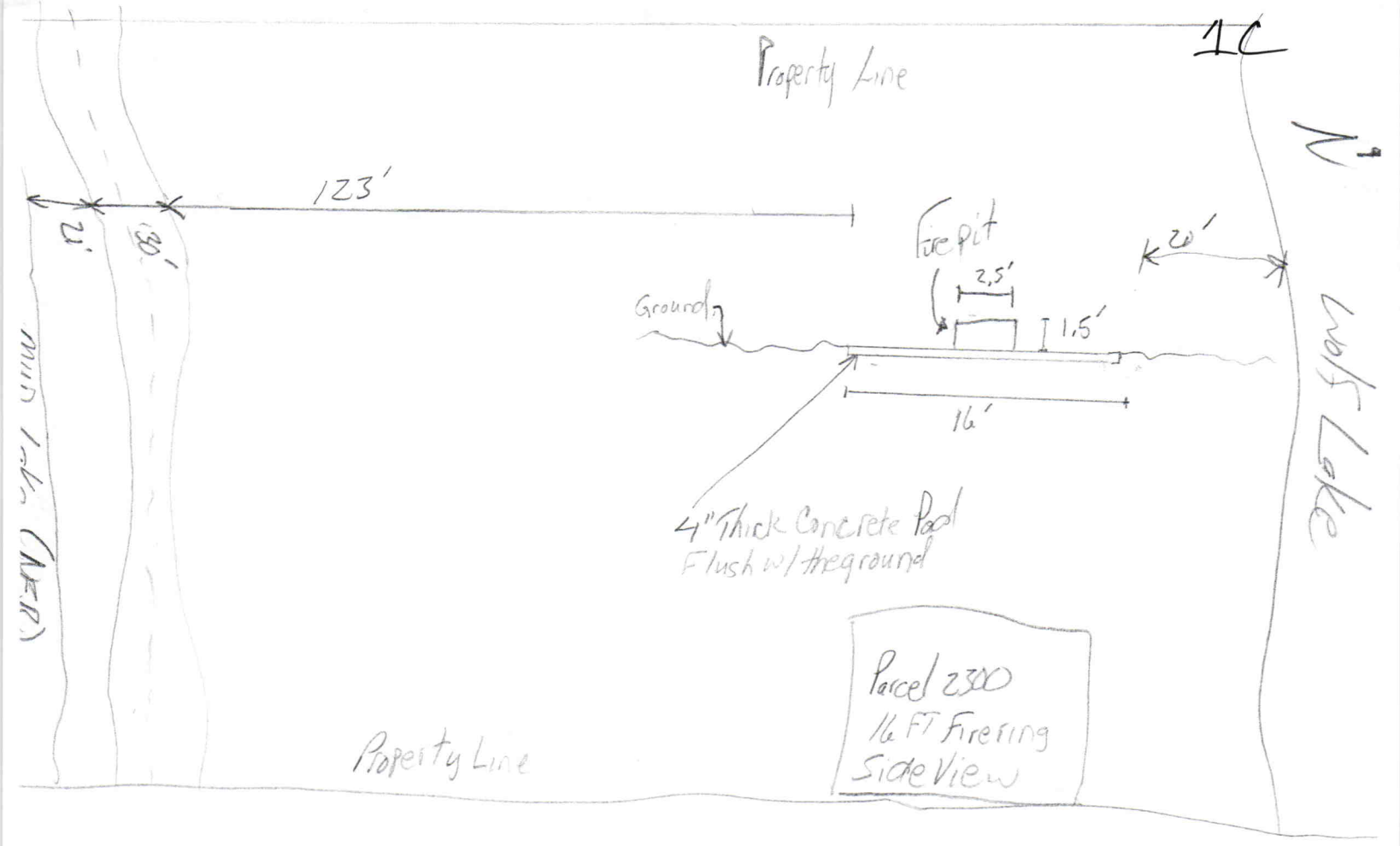


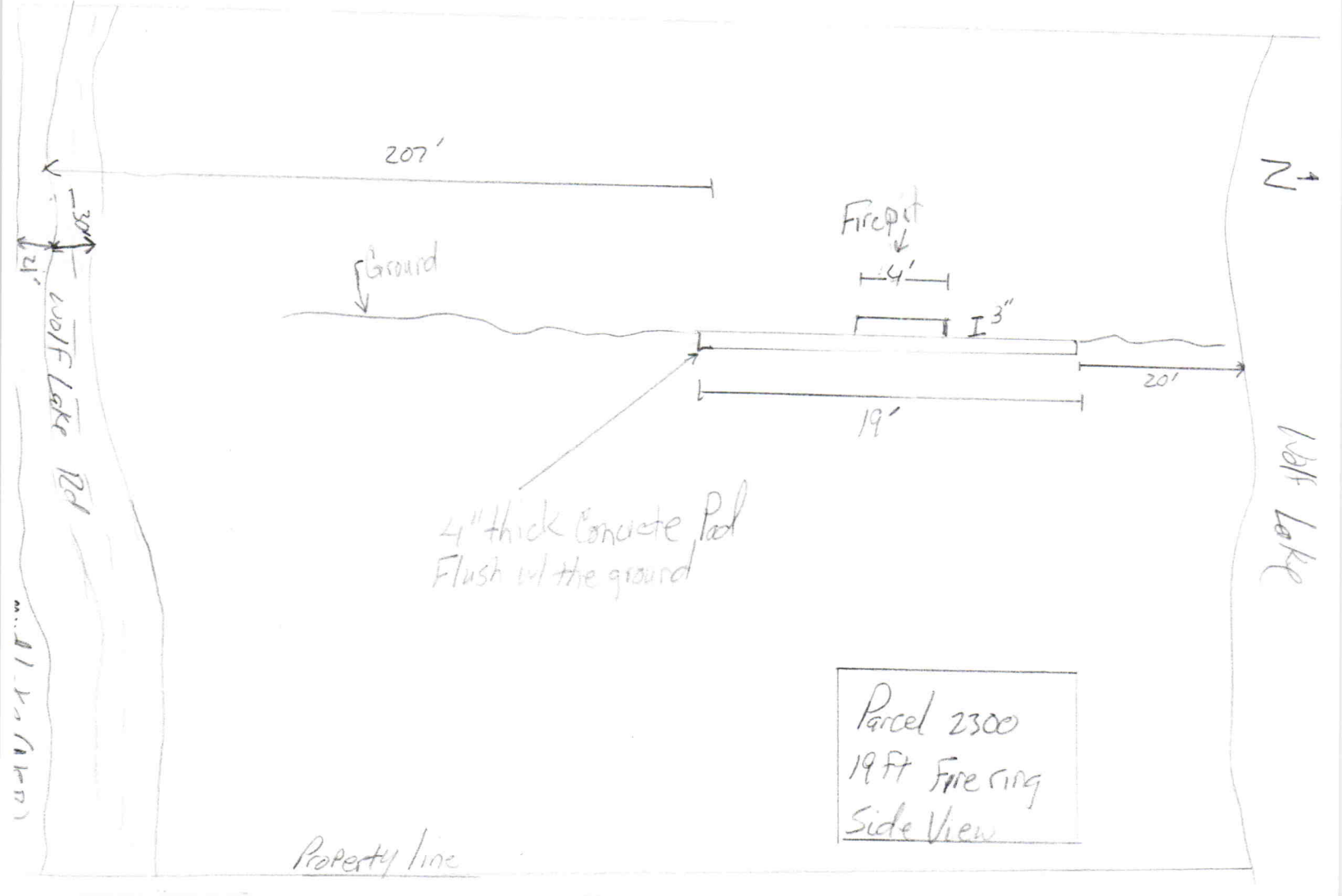
* Not hooked to water or Septic
24' Camper trailer

‡ RV4 not a permanent Site
Stored only one winter (2020-2021)
Removed @ end of May, 2021

Sent from my iPhone
Beautiful Shangri-La Resort
32326 Wolf Lake Road
Cass Lake, Minnesota 56633
218.209.6332 text/cell
Lori Lynn Hilmer
www.shangri-la-resort.com
Shangrilaresort@gmail.com

1C


Property Line
123'
21'
30'
Fire pit
2.5'
20'
Ground
1.5'
16'
4" Thick Concrete Pad
Flush w/ the ground
Wolf Lake
Parcel 2300
16 FT Fire ring
Side View
Property Line


207'
30'
12'
Fire pit
4'
Ground
3"
20'
19'
4" thick Concrete Pad
Flush w/ the ground
Wolf Lake
Parcel 2300
19 Ft Fire ring
Side View
Property line

Variance Request 1D

Variance Request 1E

Mail body: Campfire ring photos

Variance Request 1F

Variance Request 16

Mail body: Fwd: RV summary

Variance Request 2A

---------- Forwarded message ---------
From: **Shangri-La Resort** <shangrilaresort@gmail.com>
Date: Mon, Aug 29, 2022 at 10:55 AM
Subject:
To: Lori Lynn <shangrilaresort@gmail.com>

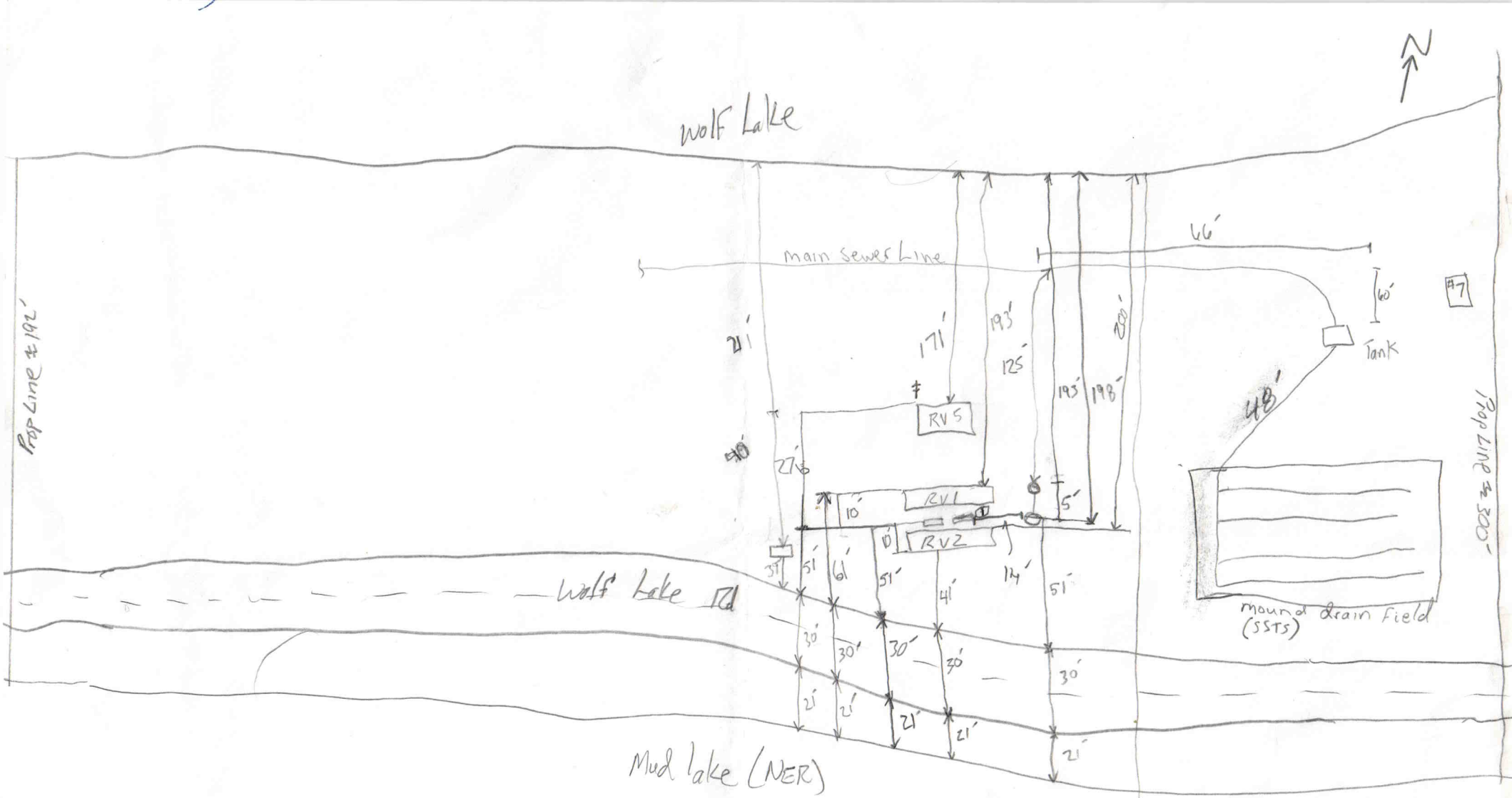
Item #2 - RV

We have two personal campers (#3 & #5) on-site.
#3 had old permanent 2 bedroom trailer home removed and we are using existing hook ups.
We travel south in the winter with camper.
5 goes to Moondance 2X a year and not hooked to septic as indicated in drawing.

We completed an extensive, expensive permitting process from Beltrami Electric to install RV sites so I thought we were good to go. (see Attachment 2C) Sewer lines were existing from minnow tank drains.

#4 was stored due to pipeline shut down and workkamper site if single person.
#1 & #2 are Workamper sites for summer help due to difficulty in finding workers. This sites are essential to having reliable, trustworthy on-site helpers to assist with everyday customer service, maintenance, cleaning and yard work. They also volunteered for Habitat for Humanity and teach at summer bible camps at local churches. They have clean up clutter, paint and fix, fix, fix up this old vintage place providing an excellent service to guests who boost economic support to our communities.
We purchased a 20.6 acre lot adjacent lot (R07.01.2500)
on Mud lake that connects to southern border of property and has been left undeveloped. Does this allow for green space density?
Hardship is not only expense incurred but resort is finally getting cleaned up and repairs completed. To loose skilled helpers would be decline in property upkeep and happy guests.

Please accept your corrective option #1 to allow additional RV dwelling units. Thank you!



① 5 × 2 × 3
L W H
RV H_2O & Elect

RV5 not connected to RV Hookup Station or Sewer. Stored in this Space

Parcel 2300
RV1, RV2, RV5 Site Plan

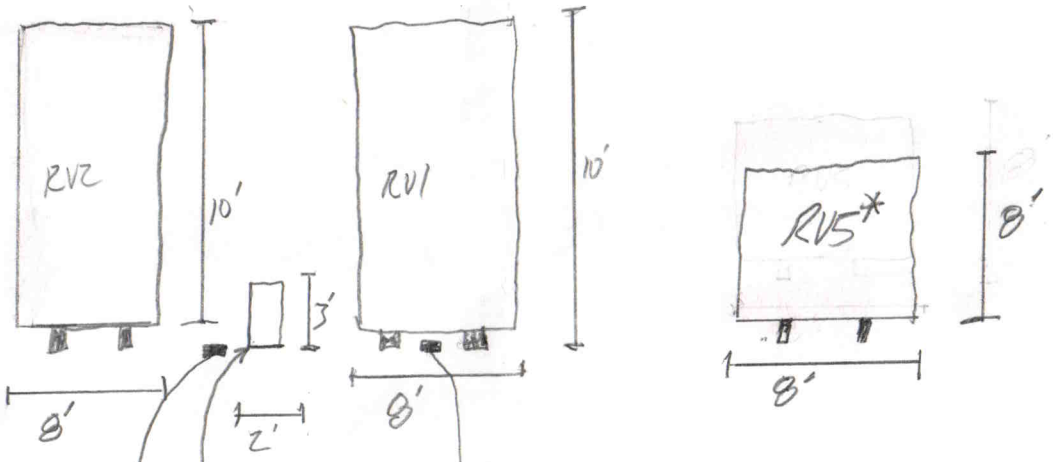
Variance Request 28

Mud Lake (NER)

Wolf Lake

N

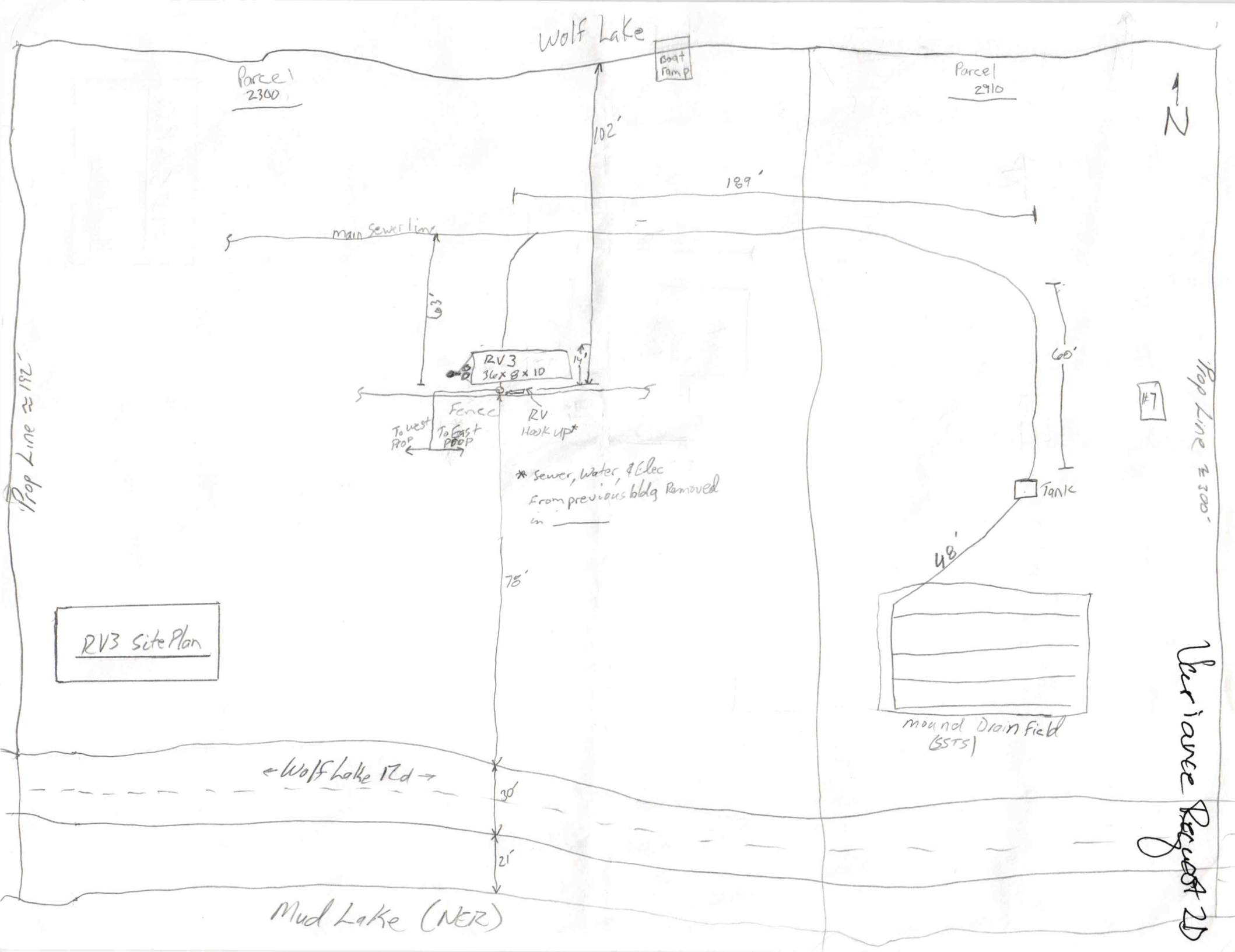
Variance Request 2C



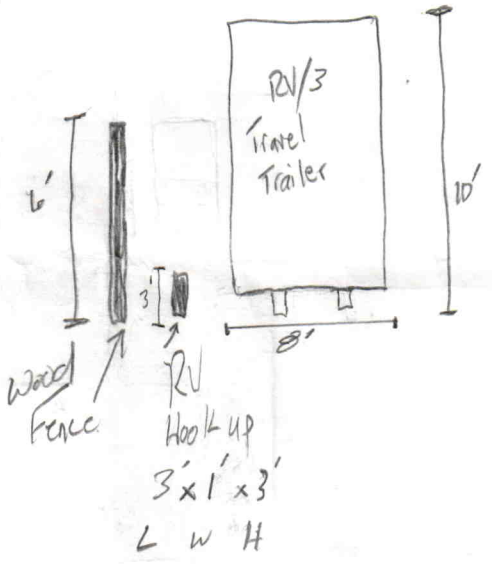
* RV5 not connected to RV Hookup Station or Sewer Stored in this Space

RV1 & RV2 Sewer Hookup. 4" Dia. 6" High

Parcel 2300
RV1, RV2, RV5 Side Profile


Wolf Lake
Boat Ramp
Parcel 2300
Parcel 2910
102'
189'
main sewer line
63'
RV3
36x8x10
14'
Fence
To West Prop
To East POOP
RV Hook up*
* sewer, water, & Elec From previous bldg Removed in ____
Prop Line ≈ 192'
Prop Line ≈ 300'
60'
#7
Tank
48'
mound Drain Field (SSTS)
75'
RV3 Site Plan
← Wolf Lake Rd →
30'
21'
Mud Lake (NER)
Variance Request 2D
12

N



Mud Lake (NSC)

Wolf Lake

RV3 Side Profile

Parcel 2300

Mail body: Fwd: Rv photos

Variance Request

2E

---------- Forwarded message ---------
From: **Shangri-La Resort** <vacation@shangri-la-resort.com>
Date: Mon, Aug 29, 2022 at 11:11 AM
Subject: Rv photos
To: Lori Lynn <shangrilaresort@gmail.com>

Mail body: Rv photos

2F

#5 #1 #2

RV #3

RV #4
site

Variance Request 2K

Beltrami Electric Cooperative Inc.

Your Touchstone Energy® Cooperative

P.O. Box 488
4111 Technology Dr. NW
Bemidji, MN 56619
(218) 444-2540
www.beltramielectric.com

Service Improvement Application

(please print)

Account # _____

Account Name Shangri-La Resort SSN # 388-74-8765 DOB 9-28-65

Joint Name _____ SSN # _____ DOB _____

Address 32326 Wolf Lake Rd

City, State Cass Lake, MN Zip 56633

Home Phone: 218-335-8858 Cell Phone (Primary): 218-209-6332

Cell Phone 2: _____ Work Phone: _____

E-Mail Address: shangrilaresort@gmail.com

Preferred method of contact regarding this service improvement?

- ☐ Phone Call _____
- ☐ E-mail _____
- ☐ Contractor _____
- ☒ Text 218-209-6332

1. TYPE OF STRUCTURE:

House Mobile Home Cabin RV Site Other _____

2. SERVICE MAP LOCATION NUMBER: _____

3. ELECTRIC HEAT: Yes _____ No X
OFF-PEAK: Yes _____ No X
ADDING OFF-PEAK: Yes _____ No X

4. WILL YOU BE REPLACING OR INSTALLING A NEW METERBASE? Yes _____ No X
Electrical Contractor: _____

5. TYPE OF WORK NEEDED: Place Underground service from pole to meter, lease yard light, remove guide wire.

6. COMMENTS: _____

(Continued on Next Page)

CONSTRUCTION CHARGES:

(Charges for construction will be determined upon staking consultation)

- The cost to relocate, extend or convert primary or secondary underground shall be a minimum Contribution in Aid charge of $750 plus the following charges:
  - Single phase primary and secondary- $4.00/foot
  - Three phase service - cost for upgrades to a three-phase service will be determined upon staking consultation.
  - There will be an additional charge of $2.00 per foot for a second run of secondary if required, except for cases where the second run of secondary is needed for off peak electric service then the $2.00 per foot will be waived.

Members completing Service Improvements for the installation of new or additional off-peak electric heating and other managed loads will receive a $400 credit off the minimum service improvement fee and a credit on the footage for up to 200 feet of line.

- Relocation of a pole, pad mount transformer or pedestal, along the path of existing line:
  - $225.00 per hour for a two-man crew plus material
  - $450.00 per hour for a four-man crew plus material
  - With a minimum of $750.00
- The member will be required to pay the remaining un-depreciated value of any primary underground facilities that are abandoned due to a relocation request unless the customer pays 100% of the construction costs for the relocation.

TERMS AND CONDITIONS:

- It is the owner's responsibility to locate and expose their private lines before construction takes place. Any water lines buried deeper than 48 inches do not have to be exposed. The cooperative is not responsible for damages to private lines such as cable TV, satellite, private electrical, water, well, sewer, telephone, gas, lift station pump lines, invisible dog fences or sprinkler system lines.
- It is the applicant's responsibility to obtain and clear right-of-way.
- Applicants will pay for the cost of all permits and/or grant of easements required for this electric service and will help obtain any permits and/or easements necessary to construct the line.
- This type of work will be done as construction crews are available. Emergencies, such as outages, new services, maintenance, road moves and other necessary line construction will have priority.
- All construction cost estimates are valid for the current construction season January 1st to December 31st and do not include any membership fee or deposits that may be due.
- Frost charges of an additional $7.00 per foot with a $500.00 minimum will be applied to all underground services installed between November 1 and May 1 of each year dependent on MnDOT road restrictions.
- If the service cannot be energized at the time of construction, a meter reconnect fee will apply at the current reconnect rate. Any work in addition to energizing that cannot be completed will be considered a Service Improvement/Relocation of Facilities and subject to the current rates.
- The monthly access charge billing will begin once a new service has been built and will continue for a minimum of 12 months. The access charge will be billed regardless of any energy being used and will be charged according to the current rate structure.
- Disconnection of a new service may be made after one year of continuous service. If a member requests disconnection prior to one continuous year of service, the regular access charge for the remaining months will be billed to the member.

By signing below, I (We) acknowledge the receipt of the Service Improvement Requirement Checklist and that I (We) have read and understand the requirements set forth by Beltrami Electric Cooperative.

SIGNATURE: _____ DATE 5.15.19

SIGNATURE: _____ DATE _____

2 M

Beltrami Electric Cooperative Inc.
Your Touchstone Energy® Cooperative
4111 Technology Dr. NW
PO Box 488
Bemidji, MN 56619-0488
218-444-2540 800-955-6083
www.beltramielectric.com

QUOTE: 12359

Order Date: 05/15/2019
Terms: OA STMT TERM
Expire Date: 06/14/2019

SHANGRI-LA RESORT
LORI L HILMER
32326 WOLF LAKE RD
CASS LAKE MN 56633

Account: 2507

Description: CONSTRUCTION CHARGES

Instructions: SERVICE ORDER #:201905517 WORK ORDER #:17602 LOCATION #:076-01-009

CATALOG ITEM	DESCRIPTION	QUANTITY	UOM	UNIT PRICE	AMOUNT	TAX
	SERVICE IMPROVEMENT BASE CONTRIBUTION	1.000	EA	750.0000	750.00	
	CONSTRUCTION FOOTAGE	80.000	FT	4.0000	320.00	

MESSAGES

PLEASE SEND A COPY WITH YOUR PAYMENT AND REFERENCE YOUR ACCOUNT NUMBER ON YOUR CHECK.

ALL CONSTRUCTION CHARGES MUST BE PAID IN FULL PRIOR TO CONSTRUCTION SCHEDULING.

UNDERGROUND SERVICES INSTALLED BETWEEN NOVEMBER 1st AND MAY 1st. ARE SUBJECT TO AN ADDITIONAL $7.00 PER FOOT. $500 MINIMUM CHARGE.

TOTAL ORDER AMOUNT: $ 1,070.00

2 N

Mail body: Deed2

Verizon LTE 11:55 AM

Done idocmarket.com

1 of 2 .02910 .02300

A000334894 1

OFFICE OF THE COUNTY RECORDER
HUBBARD COUNTY, MINNESOTA

CERTIFIED, FILED, AND/OR RECORDED ON
09/30/2008 01:29PM
AS DOC #: A000334894

NICOLE M. LUETH
HUBBARD COUNTY RECORDER

BY _____ DEPUTY

PAGES: 2

SHERIFF'S CERTIFICATE OF REDEMPTION - Foreclosure Sale

STATE OF MINNESOTA)
) ss.
COUNTY OF HUBBARD)

SHERIFF'S CERTIFICATE
OF REDEMPTION
FORECLOSURE SALE

Know all Men by these Presents, That I, Gary A. Mills, Sheriff of the County of Hubbard, in the State of Minnesota, do hereby certify that Lori L. Hilmer has this 18th day of September, 2008, paid the sum of $417,492.74 (four hundred seventeen thousand four hundred ninety-two and 74/100), lawful money of the United States, the receipt whereof is hereby acknowledged, on the redemption of:

That part of Government Lot Ten (10), Section One (1), Township One-Hundred Forty-Five (145), Range Thirty-two (32), Hubbard County, Minnesota, lying westerly of a straight line from the shore line of Mud Lake (Spring Lake) through Point B and Point D to the shore line of Wolf Lake, according to the following description locating and identifying said Point B and said Point D: Commencing at the southwest corner of said Government Lot 10, thence North 00°16'20" East, bearing assumed, along the west line of said Government Lot 10, a distance of 1176.58 feet to an iron monument designated as Point A; thence North 80°46'54" East a distance of 147.51 feet to an iron monument described as Point B, thence on a reverse course to Point A; thence North 00°16'20" East a distance of 219.70 feet to an iron monument designated as Point C; thence North 78°14'33" East a distance of 141.92 feet to an iron monument designated as Point D, the easterly boundary of the tract described above follows a row of wood posts on the land. And that part of Government Lot Nine (9), said Section One (1), lying easterly of a straight line from the shore line of Mud Lake (Spring Lake) through Point E and Point F to the shore line of Wolf Lake, according to the following description locating and identifying said Point E and said Point F: Commencing at the southwest corner of said Government Lot 9; thence North 00°28'38" East, bearing assumed, along the west line of said Government Lot 9, a distance of 1326.17 feet; thence South 89°31'22" East a distance of 989.01 feet to an iron pipe ¾" in diameter designated as Point E; thence North 3°35'44" West a distance of 100.84 feet to an iron pipe 1 ½" in diameter designated as Point F.

According to the map or plat thereof, now on file and of record in the office of the County Recorder in and for Hubbard County, Minnesota, and situated and being in the County of Hubbard and State of Minnesota, from a mortgage foreclosure sale made by the Sheriff of said Hubbard County, on the 19th day of June, 2008, to Bayview Loan Services, as purchaser, said above described premises being sold for the sum of $400,000.00, the certificate of which sale was filed for record in the office of the County Recorder of said Hubbard County, on the 26th day of June, 2008, and duly recorded therein as Document Number A000332955, and which sale was made for the purpose of foreclosing a mortgage made and dated on the 11th day of January, 2006, by Lori L. Hilmer to Metwest Commercial Lender, Inc., which mortgage was duly recorded in the office of the County Recorder of said Hubbard County on the 22nd day of February, 2006, Document Number 314866.

I FURTHER CERTIFY, That the said Lori L. Hilmer has exhibited satisfactory evidence of their said title thereto and the right to redeem the same from the sale aforesaid.

the right to redeem the same from the sale aforesaid.

Return To:
Guaranty Title, Inc.
100 S. 5th Street #490
Minneapolis, MN 55402
54356

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal at Park Rapids, Hubbard County and State of Minnesota, this 18th day of September, 2008.

Gary A. Mills, Sheriff
Hubbard County, Minnesota
By Jerry Tatro

STATE OF MINNESOTA)
COUNTY OF HUBBARD) ss.

On the 18th day of September, 2008, Jerry Tatro, Deputy in and for said Hubbard County, Minnesota to me personally known to be the individual described in and who executed the foregoing Certificate of Redemption, and be acknowledged that he executed the same freely and voluntarily, for the purpose therein expressed, and as the free act and deed of said Deputy.

Kathy R. Beelner
Notary Public

KATHY R. BEELNER
NOTARY PUBLIC-MINNESOTA
My Comm. Exp. Jan. 31, 2010

Mail body: Fwd: Garage summary

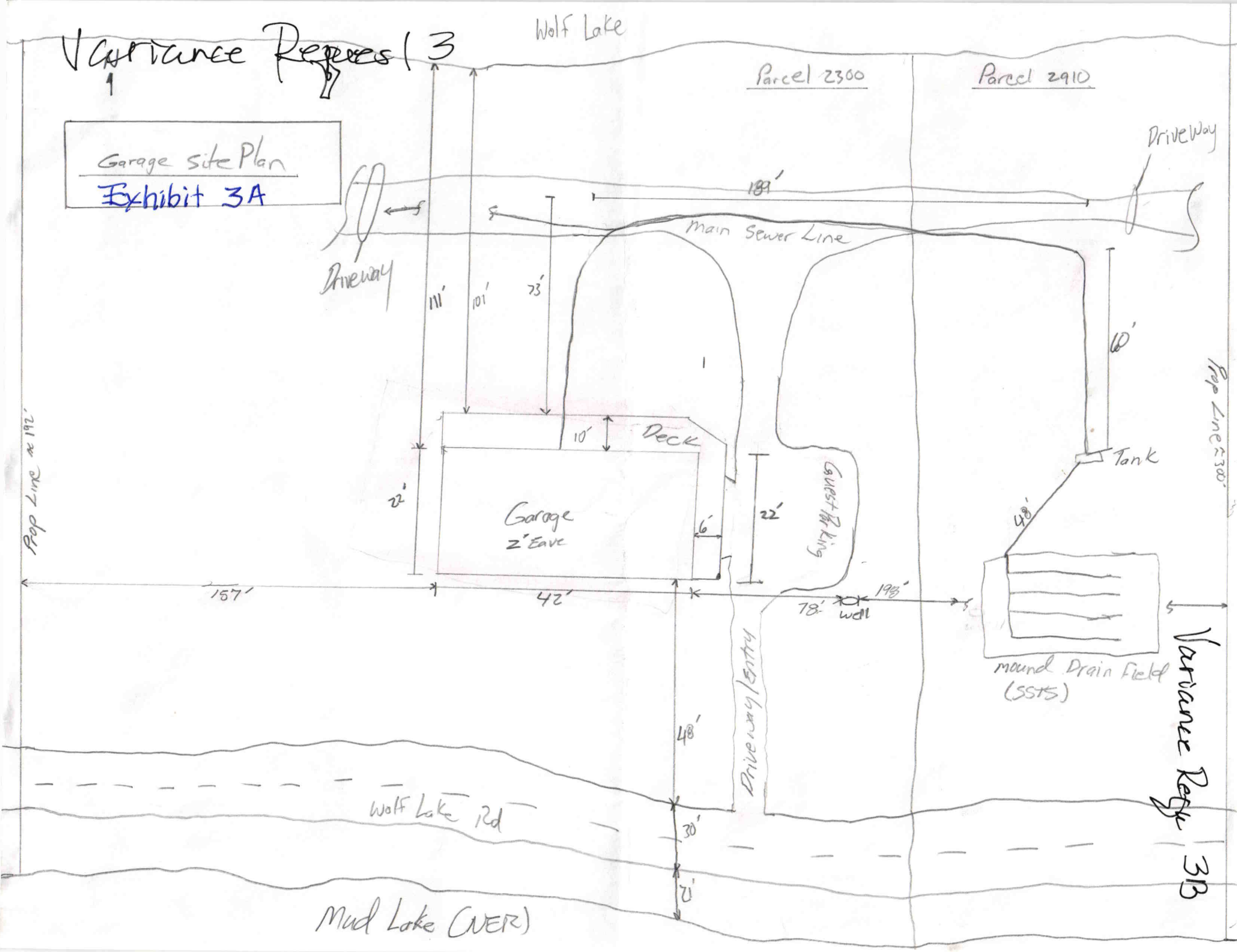
Variance Request
3A

---------- Forwarded message ---------
From: **Shangri-La Resort** <shangrilaresort@gmail.com>
Date: Mon, Aug 29, 2022 at 11:04 AM
Subject: Garage
To: Lori Lynn <shangrilaresort@gmail.com>

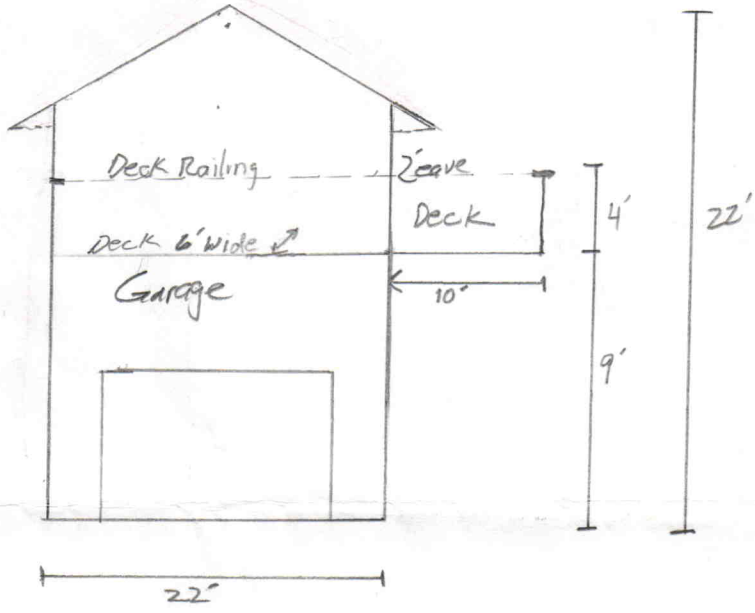
Garage

Garage burnt down in 2006. My son was badly burnt in fire and insurance money was spent on his month hospitalization and skin grafts. Garage was rebuilt slowly from used materials by volunteers and bartering. It's jam packed with resort supplies, furniture, appliances, art studio crafts.
During Covid we quasi-finished upstairs art studio into separate living space for the pandemic thing. Our son is a orthopedic surgical travel nurse with cystic fibrosis illness requiring separate living quarters. He came home when all surgery units shut down. We had many help us get space ready so hardship not to use or destroy would be wasteful and expensive. Garage is not winterized.
The deck was constructed by Greg Martinson in 2016 who showed me a paper build permit. He was paid and never completed the full job. Scammed and now stuck with fine too :(
Underneath the second story deck is the original concrete garage apron and sidewalk.

Please accept your corrective Option # 1 to allow dwelling unit and deck remain and obtain permits.
Thank you!


Variance Request 3
Wolf Lake
Parcel 2300
Parcel 2910
Garage site Plan
Exhibit 3A
DriveWay
189'
Main Sewer Line
Driveway
111'
101'
73'
60'
Prop Line ≈ 192'
Prop Line ≈ 380'
10'
Deck
22'
Garage
2' Eave
6'
22'
Guest Parking
Tank
48'
157'
42'
78'
wall
193'
mound Drain Field
(SSTS)
Variance Request 3B
48'
Driveway Entry
Wolf Lake Rd
30'
20'
Mud Lake (WER)

Variance Request 3C



Parcel 2300
Garage Side Profile

Exhibit 3B

Variance Request 30

Mail body: Garage and deck photos

Variance Request

3E

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AUG 29 2022

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

Compliance inspection report form

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/wq-wwists4-31a.pdf.

Property information

Local tracking number:

Parcel ID# or Sec/Twp/Range: 07.01.02300 / 07.01.0291 Reason for Inspection permit

Local regulatory authority info: Hubbard county ESD

Property address: 32326 wolf Lake Rd Cass Lake MN

Owner/representative: Lori Hilmer / Shangra la Resort Owner's phone: 218-209-6332

Brief system description: precast septic tanks and lift tanks and 2 side by side mounds

System status

System status on date (mm/dd/yyyy): 8/26/2022

☒ **Compliant – Certificate of compliance***

*(**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 a shorter time frame exists in Local Ordinance.)*

***Note: Compliance indicates conformance with Minn. R. 7080.1500 as of system status date above and does not guarantee future performance.**

☐ **Noncompliant – Notice of noncompliance**

Systems failing to protect ground water must be upgraded, replaced, or use discontinued within the time required by local ordinance.

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 or under section 145A.04 subdivision 8.

Reason(s) for noncompliance (check all applicable)

- ☐ Impact on public health (Compliance component #1) – *Imminent threat to public health and safety*
- ☐ Tank integrity (Compliance component #2) – *Failing to protect groundwater*
- ☐ Other Compliance Conditions (Compliance component #3) – *Imminent threat to public health and safety*
- ☐ Other Compliance Conditions (Compliance component #3) – *Failing to protect groundwater*
- ☐ System not abandoned according to Minn. R. 7080.2500 (Compliance component #3) – *Failing to protect groundwater*
- ☐ Soil separation (Compliance component #5) – *Failing to protect groundwater*
- ☐ Operating permit/monitoring plan requirements (Compliance component #4) – *Noncompliant - local ordinance applies*

Comments or recommendations

Certification

I hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage.

***By typing my name below**, I certify the above statements to be true and correct, to the best of my knowledge, and that this information can be used for the purpose of processing this form.*

Business name: Cass Lake Sewer Service Certification number: 4581

Inspector signature: *(This document has been electronically signed)* License number: 267

Phone: 218-556-5229

Necessary or locally required supporting documentation (must be attached)

☒ Soil observation logs ☐ System/As-Built ☐ Locally required forms ☒ Tank Integrity Assessment ☐ Operating Permit

☐ Other information (list):

Property Address: 32326 wolf Lake Rd Cass Lake MN

Business Name: Cass Lake Sewer Service Date: 8/26/2022

1. Impact on public health – Compliance component #1 of 5

Compliance criteria:	
System discharges sewage to the ground surface	☐ Yes* ☒ No
System discharges sewage to drain tile or surface waters.	☐ Yes* ☒ No
System causes sewage backup into dwelling or establishment.	☐ Yes* ☒ No

Any "yes" answer above indicates the system is an imminent threat to public health and safety.

Attached supporting documentation:

☐ Other:

☐ Not applicable

Describe verification methods and results:

searched for discharge on mound area and around property -found none

asked owner if ther was any discharges to ground surface or not into septic system- she stated no

2. Tank integrity – Compliance component #2 of 5

Compliance criteria:	
System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	☐ Yes* ☒ No
Sewage tank(s) leak below their designed operating depth?	☐ Yes* ☒ No
If yes, which sewage tank(s) leaks:	

Any "yes" answer above indicates the system is failing to protect groundwater.

Attached supporting documentation:

☐ Empty tank(s) viewed by inspector

Name of maintenance business:

License number of maintenance business:

Date of maintenance:

☐ Existing tank integrity assessment (Attach)

Date of maintenance (mm/dd/yyyy): 8/25/2021 (must be within three years)

(See form instructions to ensure assessment complies with Minn. R. 7082.0700 subp. 4 B (1))

☐ Tank is Noncompliant (pumping not necessary – explain below)

☐ Other:

Describe verification methods and results:

pumpers tank integrity form

Property Address: 32326 wolf Lake Rd Cass Lake MN
Business Name: Cass Lake Sewer Service
Date: 8/26/2022

3. Other compliance conditions – Compliance component #3 of 5

3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or unsecured?
☐ Yes* ☒ No ☐ Unknown

3b. Other issues *(electrical hazards, etc.)* to immediately and adversely impact public health or safety? ☐ 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* ☒ No

Yes to 3c or 3d - System is failing to protect groundwater

Describe verification methods and results:

visual

Attached supporting documentation: ☐ Not applicable ☐

4. Operating permit and nitrogen BMP* – Compliance component #4 of 5 ☒ Not applicable

Is the system operated under an Operating Permit? ☐ Yes ☐ No **If "yes", A below is required**

Is the system required to employ a Nitrogen BMP specified in the system design? ☐ Yes ☐ No **If "yes", B below is required**

BMP = Best Management Practice(s) specified in the system design

If the answer to both questions is "no", this section does not need to be completed.

Compliance criteria:

a. Have the operating permit requirements been met? ☐ Yes ☐ No

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) ☐

Property Address: 32326 wolf Lake Rd Cass Lake MN

Business Name: Cass Lake Sewer Service Date: 8/26/2022

5. Soil separation – Compliance component #5 of 5

Date of installation 11/3/1994 *(mm/dd/yyyy)* ☐ Unknown

Shoreland/Wellhead protection/Food beverage lodging? ☒ Yes ☐ No

Compliance criteria (select one):

5a. *For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment:* ☐ Yes ☐ No*

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:* ☒ Yes ☐ No*

Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*

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 system is failing to protect groundwater.

Describe verification methods and results:

soil boring was preformed

Attached supporting documentation:

☒ Soil observation logs completed for the report

☐ Two previous verifications of required vertical separation

☐ Not applicable (No soil treatment area)

☐

Indicate depths or elevations

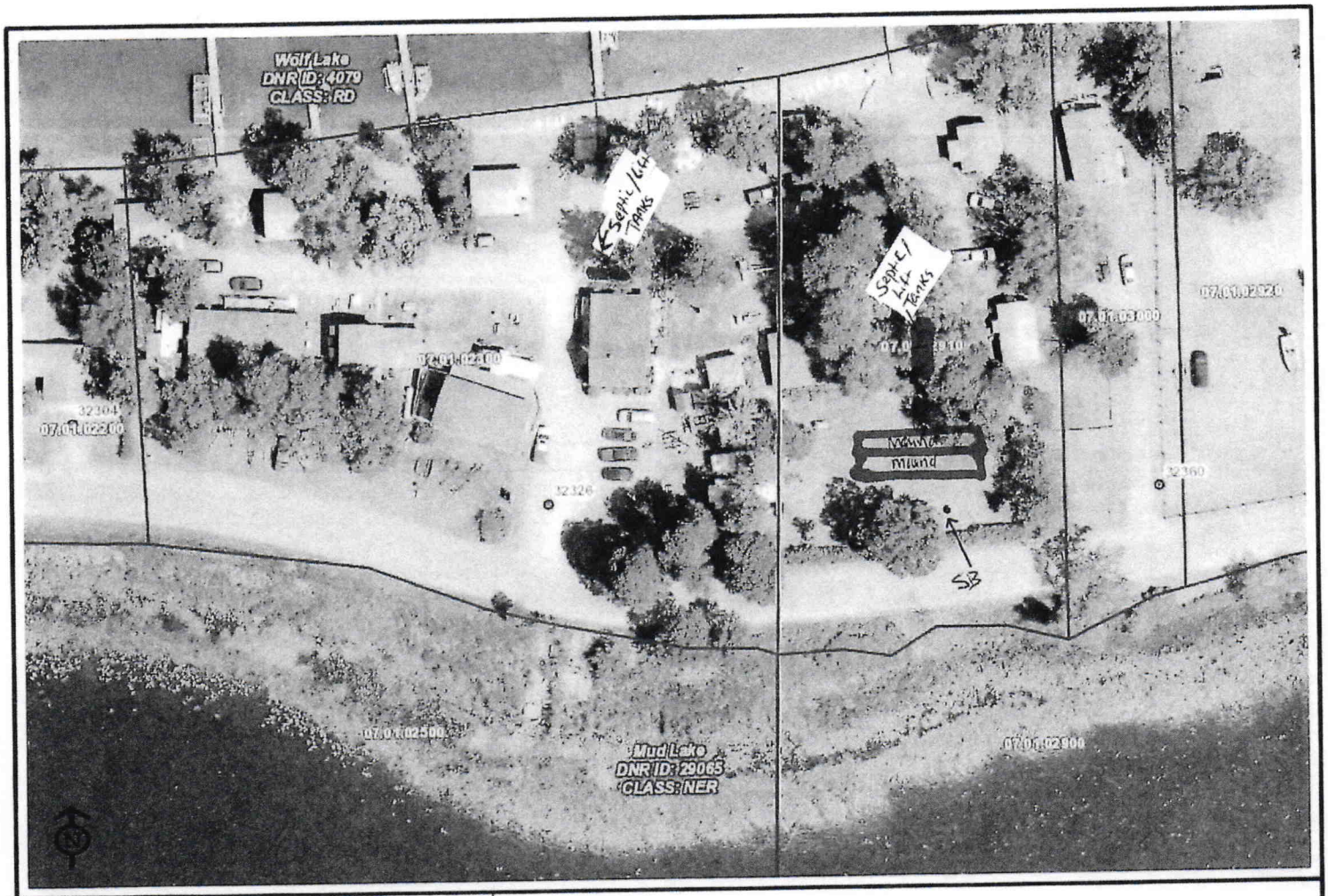
A. Bottom of distribution media	+1
B. Periodically saturated soil/bedrock	-24
C. System separation	36+
D. Required compliance separation*	36

*May be reduced up to 15 percent if allowed by Local Ordinance.

Top of Mound 42" Above
Soil Boring Location

0-2 Topsoil 3/2 10yr
2-12 M Sand 6/4 10yr
12-18 C Sand 6/4 10yr
18-36 C Sand 7/3 10yr

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, repaired, 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.*



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Hubbard County Environmental Services Records Viewer

Hubbard County - 301 Court Ave, Park Rapids, MN 56470

Created 8/28/2022 at 09:13 AM

MINNESOTA POLLUTION CONTROL AGENCY

520 Lafayette Road North
St. Paul, MN 55155-4194

Sewage tank integrity assessment form

Subsurface Sewage Treatment Systems (SSTS) Program

Doc Type: Compliance and Enforcement

Purpose: This form *may* be used to certify the compliance status of the sewage tank components of the SSTS. **This form is not a complete SSTS inspection report, only a tank integrity assessment, and may only certify sewage tank compliance status when entirely completed and signed by a qualified professional.** SSTS compliance inspection report forms can be found at: https://www.pca.state.mn.us/water/inspections .

Instructions: This form may be completed, and signed, by a Designated Certified Individual (DCI) of a licensed SSTS inspection, maintenance, installation, or service provider business who personally conducts the necessary procedures to assess the compliance status of each sewage tank in the system. Only a licensed maintenance business is authorized to pump the tank for assessment. A copy of this information should be submitted to the system owner and be maintained by the licensed SSTS business for a period of five (5) years from the assessment date.

When this form is signed by a qualified certified professional, it becomes *necessary supporting documentation* to an Existing System Compliance Inspection Report: Compliance inspection form - Existing system (wq-wwists4-31b). This form can be found on the MPCA website at https://www.pca.state.mn.us/water/inspections .

The information and certified statement on this form is required when existing septic tank compliance status is determined by an individual other than the SSTS Inspector that submits an inspection report. This form represents a third party assessment of SSTS component compliance and is allowable under Minn. R. 7082.0700, subp. 4(B)(1). This form is valid for a period of three years beyond the signature date on this form unless a new evaluation is requested by the owner or owner's agent or is required according to local regulations. Additional Administrative Rule references for this activity can be found at Minn. R. 7082.0700, subp. 4(B),(C), and (D) and; Minn. R. 7083.0730(C).

Owner information

Owner/Representative: Shangri-La Resort

Property address: 32326 Wolf Lake Rd

Local Regulatory Authority: Cass Lake, MN Parcel ID:

System status

System status on date (mm/dd/yyyy): 08/25/21 House tank, cabin tank, Lift tank

☒ **Certificate of sewage tank compliance** ☐ **Notice of sewage tank non-compliance**

Compliance criteria:

The SSTS has a seepage pit, cesspool, drywell, leaching pit, or other pit - **"Failure to Protect Groundwater."**	☐ Yes ☒ No
The SSTS has a sewage tank that leaks below the designed operating depth - **"Failure to Protect Groundwater."**	☐ Yes ☒ No
The SSTS presents a threat to public safety by reason of structurally unsound (damaged, cracked, or weak) maintenance hole cover(s) or lids or any other unsafe condition - **"Imminent Threat to Public Health or Safety."**	☐ Yes ☒ No

Any "yes" answer above indicates sewage tank non-compliance.

Company information

Company name: Dale's septic

Business license number: L2279

Designated Certified Individual (DCI) information

Print name:

Certification number: C6402

I personally conducted the work described above as a Designated Certified Individual of a Minnesota-licensed SSTS inspection, maintenance, installation, or service provider Business. I personally conducted the necessary procedures to assess the compliance status of each sewage tank in this SSTS.

By typing/signing my name below, I certify the above statements to be true and correct, to the best of my knowledge, and that this information can be used for the purpose of processing this form.

Designated Certified Individual's signature: [signature] *(This document has been electronically signed.)* Date (mm/dd/yyyy): 08/25/21

Shangri-La-Resort

Existing Septic System Review and Upgrade

H&R Septic Designs, LLC L3106

9/22/22

H&R Septic Designs was hired by Lori Hilmer to perform a septic site evaluation of the Shangri-La-Resort and assist in providing sewer flow estimates and a potential design to assist in developing recommendations and options to submit a variance request to the Hubbard County Board of Adjustment.

It is our understanding the property owner is in the process of submitting a variance for addition of RV sites, and the County has requested additional information regarding existing septic system capacity and the potential additional capacity that could be added to the property.

Per Hubbard Ordinance 17 Section 502, all sewage treatment system setbacks are 150 feet from ordinary high water. The current existing mound is less than 150 feet from Natural Environment Lake - Mud Lake and greater than 150 feet from Recreational Development Lake – Wolf. If a new mound is constructed alongside existing mound, the new mound rock bed would be within the 150 foot setback to Wolf Lake. Per Section 801, paragraph 3, Hubbard County Environmental Services Director can vary setback administratively on Recreational Development Lakes to no less than 75 feet.

Existing mound system is compliant (see compliance inspection filed on Hubbard Cty environmental record site dated 8/26/22) and consists of Two (2) 10 x 73 foot rock beds.

Flow calculation estimates, based on 7080 design tables, indicate a sewer flow of 3000 gpd for the resort and an additional 406 gpd for the sewered camping sites for a total of 3406 gallons per day. Please note this flow is based on table estimates and not actual metered flows. The owner indicated a flow meter was installed and actual flows were much lower. The records were not available for this design determination, therefore this design is a conservative size for the actual flows the resort is generating.

In order to meet the estimated 3406 gpd flow, 284 feet of 10 foot wide rock bed is required. The existing system contains 146 feet of rock bed, therefore an additional 138 feet is needed. An option is to extend the exiting rock beds 20 feet each and install two new 10X50 rock beds north of the existing mound. It should be noted the transient well is approximately 80 feet from the existing rock beds and would be 60 feet from any extension.

The estimated flow requires 10218 gallons of septic tank, of which 3000 gallons exist, therefore 7,218 gallons of additional tank capacity is needed to meet current design requirements. Flows could be split to utilize existing pump station to existing mound and a new pump tank to feed the proposed 10X50 rock beds.

Ken Ramondo, Advanced Designer, C4737

Determine Design Flow

Dwellings		Bed Rooms	Max Occupancy	Gpd/Unit	Flow	7080 Unit Description
Deer		1	4	50	200	gpd/person Campground Cabin, resort 7081.0130Table I
Hummingbird		3	8	50	400	gpd/person Campground Cabin, resort 7081.0130Table I
Duck		2	6	50	300	gpd/person Campground Cabin, resort 7081.0130Table I
Eagle		3	8	50	400	gpd/person Campground Cabin, resort 7081.0130Table I
Bear		2	6	50	300	gpd/person Campground Cabin, resort 7081.0130Table I
Wolf		2	6	50	300	gpd/person Campground Cabin, resort 7081.0130Table I
Fox		2	6	50	300	gpd/person Campground Cabin, resort 7081.0130Table I
Loon		4	10	50	500	gpd/person Campground Cabin, resort 7081.0130Table I
House Dwelling		2		300	300	gpd/bedroom 7080.1860 Type I residence 2 bedrooms
	Sub Total	21			**3000**	
Rv site 1			2	32	64	gpd/person Campsite with sewer hook up 7081.0130 Table I
Rv site 2			2	32	64	gpd/person Campsite with sewer hook up 7081.0130 Table I
Rv site 3			2	32	64	gpd/person Campsite with sewer hook up 7081.0130 Table I
Rv site 4			2	32	64	gpd/person Campsite with sewer hook up 7081.0130 Table I
Garage Dwelling Art studio		1	1	150	150	gpd/bedroom 7080.1860 Type II residence 1 bedrooms
	Sub Total				**406**	
Basis of Design	Total				**3406**	

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University of Minnesota Onsite Sewage Treatment Program

Preliminary Evaluation Worksheet

MINNESOTA POLLUTION CONTROL AGENCY

1. Contact Information

v 04.01.2020

Property Owner/Client:	Lori L Hilmer	Date Completed:	9/24/2022
Site Address:	32326 Wolf Lake Rd	Project ID:	Design
Email:	shangrilaresort@gmail.com	Phone:	218-209-6332
Mailing Address:	same as site		
Legal Description:			
Parcel ID:	070102300 & 070102910	SEC:	TWP: RNG:

2. Flow and General System Information

A. Client-Provided Information

Project Type: ☐ New Construction ☐ Replacement ☑ Expansion ☐ Repair

Project Use: ☐ Residential ☑ Other Establishment: Resort

Residential use: # Bedrooms: Dwelling Sq.ft.: Unfinished Sq. Ft.:

Adults: # Children: # Teenagers:

In-home business (Y/N): If yes, describe:

Water-using devices *(check all that apply)*:

☐ Garbage Disposal/Grinder ☐ Dishwasher ☐ Hot Tub*
☐ Sewage pump in basement ☐ Water Softener* ☐ Sump Pump*
☐ Large Bathtub >40 gallons ☐ Iron Filter* ☐ Self-Cleaning Humidifier*
☐ Clothes Washing Machine ☐ High Eff. Furnace* ☐ Other:

* Clear water source - should not go into system

Additional current or future uses:

Anticipated non-domestic waste:

The above is complete & accurate: ***Client signature & date***

B. Designer-determined flow Information

Attach additional information as necessary.

Design Flow: 3406 GPD Anticipated Waste Type: Other Est. - Resid.

BOD: <170 mg/L TSS <60 mg/L Oil & Grease <25 mg/L

3. Preliminary Site Information

A. Water Supply Wells

#	Description	Mn. ID#	Well Depth (ft.)	Casing Depth (ft.)	Confining Layer	STA Setback	Source
1	Non-community trans	779077	60	55			well log
2							
3							
4							

Additional Well Information: Well is approximately 80 feet from existing mound system

University of Minnesota Onsite Sewage Treatment Program

Preliminary Evaluation Worksheet

MINNESOTA POLLUTION CONTROL AGENCY

Site within 200' of noncommunity transient well (Y/N)	Yes	Yes, source:	site visit
Site within a drinking water supply management area (Y/N)	No	Yes, source:	
Site in Well Head Protection inner wellhead management zone (Y/N)	No	Yes, source:	
Buried water supply pipes within 50 ft of proposed system (Y/N)	No		
B. Site located in a shoreland district/area?	Yes	Yes, name:	mud & wolf
Elevation of ordinary high water level:	ft	Source:	
Classification: mud-NE, wolf-RD	Tank Setback: 150 ft.	STA Setbk: 150 ft.	
C. Site located in a floodplain?	No	Yes, Type(s):	N/A
Floodplain designation/elevation (10 Year):	ft	Source:	N/A
Floodplain designation/elevation (100 Year):	N/A ft	Source:	N/A

D. Property Line Id / Source: ☐ Owner ☐ Survey ☑ County GIS ☐ Plat Map ☐ Other:

E. ID distance of relevant setbacks on map: ☑ Water ☐ Easements ☑ Well(s) ☑ Building(s) ☑ Property Lines ☐ OHWL ☐ Other:

4. Preliminary Soil Profile Information From Web Soil Survey (attach map & description)

Map Units: A1B Eagleview — Slope Range: 1-8 %

List landforms: Flats

Landform position(s): Rise

Parent materials: Sandy Outwash

Depth to Bedrock/Restrictive Feature: >80 in — Depth to Watertable: >80 in

Map Unit Ratings

Septic Tank Absorption Field- At-grade:	Not Limited
Septic Tank Absorption Field- Mound:	Slightly Limited - slope
Septic Tank Absorption Field- Trench:	Slightly Limited - excess perc

5. Local Government Unit Information

Name of LGU: Hubbard

LGU Contact:

LGU-specific setbacks: 150 from Mud & 150 from Wolf see below for variance

LGU-specific design requirements:

LGU-specific installation requirements:

Notes: Mounds will be used for nitrogen BMP. Hubbard Ord 17 Sec 801 allows for RD lake setback reduction

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SEP 26 2022

University of Minnesota Onsite Sewage Treatment Program

Field Evaluation Worksheet

MINNESOTA POLLUTION CONTROL AGENCY

1. Project Information

v 04.01.2020

Property Owner/Client:	Lori L Hilmer	Project ID:	Design
Site Address:	32326 Wolf Lake Rd	Date Completed:	9/24/2022

2. Utility and Structure Information

Utility Locations Identified ☐ Gopher State One Call # ☐ Any Private Utilities:

Locate and Verify (*see Site Evaluation map*) ☐ Existing Buildings ☐ Improvements ☐ Easements ☐ Setbacks

3. Site Information

Vegetation type(s):	Grass	Landscape position:	Shoulder		
Percent slope:	2 %	Slope shape:	Linear, Linear	Slope direction:	north

Describe the flooding or run-on potential of site: None

Describe the need for Type III or Type IV system: NA

Note:

Proposed soil treatment area protected? (Y/N): No If yes, describe:

4. General Soils Information

Filled, Compacted, Disturbed areas (Y/N): No

If yes, describe:

Soil observations were conducted in the proposed system location (Y/N): Yes

A soil observation in the most limiting area of the proposed system (Y/N): Yes

Number of soil observations: 3 Soil observation logs attached (Y/N): Yes

Percolation tests performed & attached (Y/N): No

5. Phase I. Reporting Information

	Depth		Elevation		
Limiting Condition*:	30	in	**93.51'**	ft	**Most Restrictive Depth Identified from List Below*
Periodically saturated soil:	30	in	93.51'	ft	Soil Texture: medium loamy sand
Standing water:		in		ft	Percolation Rate: min/inch
Bedrock:	NA	in		ft	Soil Hyd Loading Rate: 1.2 gpd/ft^2
Benchmark Elevation:	100.0	ft			Elevations and Benchmark on map? (Y/N): Yes

Benchmark Elevation Location: top center elec transformer cabinet

Differences between soil survey and field evaluation: restricting layer

Site evaluation issues / comments:

Anticipated construction issues:

University of Minnesota Onsite Sewage Treatment Program

Soil Observation Log

Project ID: Design v 04.01.2020

Client:	Lori L Hilmer			Location / Address:	32326 Wolf Lake Rd
Soil parent material(s): (Check all that apply)	☑ Outwash ☐ Lacustrine ☐ Loess ☐ Till ☐ Alluvium ☐ Bedrock ☐ Organic Matter				
Landscape Position: (select one)	Shoulder	Slope %: 2.0	Slope shape	Linear, Linear	Elevation-relative to benchmark: 96.01'
Vegetation:	Grass	Soil survey map units:	A1B		Limiting Layer Elevation: 93.51'
Weather Conditions/Time of Day:	sunny 60 degrees, 4 pm			Date	09/22/22
Observation #/Location:	SB1			Observation Type:	Auger

Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	Structure: Shape	Structure: Grade	Structure: Consistence
0-6	Loamy Sand	<35%	10YR 3/2				Granular	Weak	Friable
6-16	Sand	<35%	10YR 4/3				Single grain	Structureless	Loose
16-30	Coarse Sand	<35%	10YR 5/3				Single grain	Structureless	Loose
30-35	Coarse Sand	<35%	10YR 5/3	10YR 6/1	Depletions	S2	Single grain	Structureless	Loose

Comments: Depletions at 30"

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

H&R Septic Designs		L3106	9/22/2022
(Designer/Inspector)	(Signature)	(License #)	(Date)

University of Minnesota
Onsite Sewage Treatment Program

Soil Observation Log

Project ID: Design

v 04.01.2020

Client:	Lori L Hilmer	Location / Address:	32326 Wolf Lake Rd

Soil parent material(s): (Check all that apply) ☑ Outwash ☐ Lacustrine ☐ Loess ☐ Till ☐ Alluvium ☐ Bedrock ☐ Organic Matter

Landscape Position: (select one)	Shoulder	Slope %:	2.0	Slope shape	Linear, Linear	Elevation-relative to benchmark:	96.1'
Vegetation:	Grass	Soil survey map units:		A1B		Limiting Layer Elevation:	93.43'
Weather Conditions/Time of Day:	sunny 60 degrees				Date	09/22/22	
Observation #/Location:	SB2				Observation Type:	Auger	

Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	Structure: Shape	Structure: Grade	Structure: Consistence
0-7	Loamy Sand	<35%	10YR 3/2				Granular	Weak	Friable
7-16	Sand	<35%	10YR 4/3				Single grain	Structureless	Loose
16-32	Coarse Sand	<35%	10YR 5/3				Single grain	Structureless	Loose
32-34	Coarse Sand	<35%	10YR 5/3	10YR 6/1	Depletions	S2	Single grain	Structureless	Loose

Comments: Depletions at 32"

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

H&R Septic Designs		L3106	9/22/2022
(Designer/Inspector)	(Signature)	(License #)	(Date)

University of Minnesota
Onsite Sewage Treatment Program

Soil Observation Log

Project ID: Design v 04.01.2020

Client:	Lori L Hilmer	Location / Address:	32326 Wolf Lake Rd

Soil parent material(s): (Check all that apply) ☑ Outwash ☐ Lacustrine ☐ Loess ☐ Till ☐ Alluvium ☐ Bedrock ☐ Organic Matter

Landscape Position: (select one)	Shoulder	Slope %:	2.0	Slope shape	Linear, Linear	Elevation-relative to benchmark:	96.05'
Vegetation:	Grass	Soil survey map units:		A1B		Limiting Layer Elevation:	93.46'
Weather Conditions/Time of Day:	Sunny 60 degrees				Date	09/22/22	
Observation #/Location:	SB3				Observation Type:	Auger	

Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	Structure: Shape	Structure: Grade	Structure: Consistence
0-6	Loamy Sand	<35%	10YR 3/2				Granular	Weak	Friable
6-15	Sand	<35%	10YR 4/3				Single grain	Structureless	Loose
15-31	Coarse Sand	<35%	10YR 5/3				Single grain	Structureless	Loose
31-33	Coarse Sand	<35%	10YR 5/3	10YR 6/1	Depletions	S2	Single grain	Structureless	Loose

Comments: Depletions at 31"

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

H&R Septic Designs		L3106	9/22/2022
(Designer/Inspector)	(Signature)	(License #)	(Date)

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University of Minnesota Onsite Sewage Treatment Program

Design Summary Page

MINNESOTA POLLUTION CONTROL AGENCY

1. PROJECT INFORMATION

v 04.01.2020

Property Owner/Client:	Lori L Hilmer	Project ID:	Design
Site Address:	32326 Wolf Lake Rd	Date:	09/22/22
Email Address:	shangrilaresort@gmail.com	Phone:	218-209-6332

2. DESIGN FLOW & WASTE STRENGTH

Attach data / estimate basis for Other Establishments

Design Flow: 3406 GPD — Anticipated Waste Type: Other Est. - Resid.

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 =400 gal/bedroom, Other Establishment = Design Flow x 5.0, Minimum size 1000 gallons

Code Minimum **Holding Tank** Capacity: ____ Gallons in ____ Tanks or Compartments

Recommended **Holding Tank** Capacity: ____ Gallons in ____ Tanks or Compartments

Type of High Level Alarm: ____ (Set @ 75% tank capacity)

Comments: ____

4. SEPTIC TANK SIZING

A. Residential dwellings:

Number of Bedrooms (Residential): ____

Code Minimum **Septic Tank** Capacity: ____ Gallons in ____ Tanks or Compartments

Recommended **Septic Tank** Capacity: ____ Gallons in ____ Tanks or Compartments

Effluent Screen & Alarm (Y/N): ____ Model/Type: ____

B. Other Establishments:

Waste received by: Gravity 3406 GPD x 3 Days Hyd. Retention Time

Code Minimum **Septic Tank** Capacity: 10218 Gallons In ____ Tanks or Compartments

Recommended **Septic Tank** Capacity: ____ Gallons In ____ Tanks or Compartments

Effluent Screen & Alarm (Y/N): ____ Model/Type: ____

5. PUMP TANK SIZING

Pump Tank 1 Capacity (Minimum):	3000 Gal	Pump Tank 2 Capacity (Minimum):	Gal
Pump Tank 1 Capacity (Recommended):	3000 Gal	Pump Tank 2 Capacity (Recommended):	Gal
Pump 1	41.0 GPM Total Head 19.3 ft	Pump 2	GPM Total Head ft
Supply Pipe Dia.	2.00 in Dose Vol: 500.0 gal	Supply Pipe Dia.	Dose Vol: Gal

University of Minnesota Onsite Sewage Treatment Program

Design Summary Page

MINNESOTA POLLUTION CONTROL AGENCY

6. SYSTEM AND DISTRIBUTION TYPE

Project ID: Design

Soil Treatment Type:	Mound	Distribution Type:	Pressure Distribution-Level
Elevation Benchmark:	100 ft	Benchmark Location:	top center elec transformer cabir
MPCA System Type:		Distribution Media:	
Type III/IV Details:			

7. SITE EVALUATION SUMMARY:

Describe Limiting Condition: Redoximorphic Features/Saturated Soils

Layers with >35% Rock Fragments? (yes/no) No If yes, describe below: % rock and layer thickness, amount of soil credit and any additional information for addressing the rock fragments in this design.

Note:

	Depth		Depth		Elevation of Limiting Condition	
Limiting Condition:	30	inches	2.5	ft	93.51'	ft
Minimum Req'd Separation:	36	inches	3.0	ft		
					Elevation	
Code Max System Depth:	Mound	inches	-0.5	ft	96.51'	ft

Critical for system compliance

This is the maximimum depth to the bottom of the distribution media for required separation. Negative Depth (ft) means it must be a mound.

Soil Texture:	Loamy Sand		
Soil Hyd. Loading Rate:	1.20 GPD/ft^2	Percolation Rate:	MPI
Contour Loading Rate:	12	Note:	
Measured Land Slope:	2.0 %	Note:	
Comments:			

8. SOIL TREATMENT AREA DESIGN SUMMARY

Trench:

Dispersal Area	ft^2	Sidewall Depth	in	Trench Width	ft
Total Lineal Feet	ft	No. of Trenches		Code Max. Trench Depth	in
Contour Loading Rate	ft	Length	ft	Designed Trench Depth	in

Bed:

Dispersal Area	ft^2	Sidewall Depth	in	Maximum Bed Depth	in
Bed Width	ft	Bed Length	ft	Designed Bed Depth	in

Mound:

Dispersal Area	2838.3 ft^2	Bed Length	283.8 ft	Bed Width	10.0 ft
Absorption Width	10.0 ft	Clean Sand Lift	1.0 ft	Berm Width (0-1%)	ft
Upslope Berm Width	8.5 ft	Downslope Berm	10.2 ft	Endslope Berm Width	9.6 ft
Total System Length	303.0 ft	System Width	28.7 ft	Contour Loading Rate	12.0 gal/ft

University of Minnesota Onsite Sewage Treatment Program

Design Summary Page

MINNESOTA POLLUTION CONTROL AGENCY

Project ID: Design

At-Grade:

Bed Width		ft	Bed Length		ft	Finished Height		ft
Contour Loading Rate		gal/ft	Upslope Berm		ft	Downslope Berm		ft
Endslope Berm		ft	System Length		ft	System Width		ft

Level & Equal Pressure Distribution

No. of Laterals	3		Perforation Spacing	3	ft	Perforation Diameter	7/32	in
Lateral Diameter	2.00	in	Min Dose Volume	98	gal	Max Dose Volume	852	gal

Non-Level and Unequal Pressure Distribution

	Elevation (ft)	Pipe Size (in)	Pipe Volume (gal/ft)	Pipe Length (ft)	Perf Size (in)	Spacing (ft)	Spacing (in)
Lateral 1							
Lateral 2							
Lateral 3							
Lateral 4							
Lateral 5							
Lateral 6							

Minimum Dose Volume: _____ gal

Maximum Dose Volume: _____ gal

9. Additional Info for At-Risk, HSW or Type IV Design

A. Starting BOD Concentration = Design Flow X Starting BOD (mg/L) X 8.35 ÷ 1,000,000

_____ gpd X _____ mg/L X 8.35 ÷ 1,000,000 = _____ lbs. BOD/day

B. Target BOD Concentration = Design Flow X Target BOD (mg/L) X 8.35 ÷ 1,000,000

_____ gpd X _____ mg/L X 8.35 ÷ 1,000,000 = _____ lbs. BOD/day

Lbs. BOD To Be Removed: _____

PreTreatment Technology: _____ *Must Meet or Exceed Target

Disinfection Technology: _____ *Required for Levels A & B

C. Organic Loading to Soil Treatment Area:

_____ mg/L X _____ gpd x 8.35 ÷ 1,000,000 ÷ _____ ft^2 = _____ $lbs./day/ft^2$

10. Comments/Special Design Considerations:

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

H&R Septic Designs		L3106	9/22/2022
(Designer)	(Signature)	(License #)	(Date)

University of Minnesota Onsite Sewage Treatment Program

Mound Design Worksheet
≥1% Slope

MINNESOTA POLLUTION CONTROL AGENCY

1. SYSTEM SIZING: Project ID: Design v 04.01.2020

A. Design Flow:	3406	GPD
B. Soil Loading Rate:	1.20	GPD/ft²
C. Depth to Limiting Condition	2.5	ft
D. Percent Land Slope:	2.0	%
E. Design Media Loading Rate:	1.2	GPD/ft²
F. Mound Absorption Ratio:	1.00	

Table I
MOUND CONTOUR LOADING RATES:

Measured Perc Rate	← OR →	Texture - derived mound absorption ratio		Contour Loading Rate:
≤ 60mpi		1.0, 1.3, 2.0, 2.4, 2.6	→	≤12
61-120 mpi	← OR →	5.0	→	≤12
≥ 120 mpi*		>5.0*	→	≤6*

TABLE IXa
LOADING RATES FOR DETERMINING BOTTOM ABSORPTION AREA AND ABSORPTION RATIOS USING PERCOLATION TESTS

Percolation Rate (MPI)	Treatment Level C: Absorption Area Loading Rate (gpd/ft²)	Treatment Level C: Mound Absorption Ratio	Treatment Level A, A-2, B,: Absorption Area Loading Rate (gpd/ft²)	Treatment Level A, A-2, B,: Mound Absorption Ratio
<0.1	-	1	-	1
0.1 to 5	1.2	1	1.6	1
0.1 to 5 (fine sand and loamy fine sand)	0.6	2	1	1.6
6 to 15	0.78	1.5	1	1.6
16 to 30	0.6	2	0.78	2
31 to 45	0.5	2.4	0.78	2
46 to 60	0.45	2.6	0.6	2.6
61 to 120	-	5	0.3	5.3
>120	-	-	-	-

*Systems with these values are not Type I systems. Contour Loading Rate (linear loading rate) is a recommended value.

2. DISPERSAL MEDIA SIZING

A. Calculate Dispersal Bed Area: Design Flow ÷ Design Media Loading Rate

3406 GPD ÷ 1.2 GPD/ft² = 2838 ft²

If a larger dispersal media area is desired, enter size: _____ ft²

B. Enter Dispersal Bed Width: 10.0 ft *Can not exceed 10 feet*

C. Calculate Contour Loading Rate: Bed Width X Design Media Loading Rate

10 ft² X 1.2 GPD/ft² = 12.0 gal/ft *Can not exceed Table 1*

D. Calculate Minimum Dispersal Bed Length: Dispersal Bed Area ÷ Bed Width

2838 ft² ÷ 10.0 ft = 283.8 ft

3. ABSORPTION AREA SIZING

A. Calculate Absorption Width: Bed Width X Mound Absorption Ratio

10.0 ft X 1.0 = 10.0 ft

B. For slopes >1%, the Absorption Width is measured downhill from the upslope edge of the Bed.

Calculate Downslope Absorption Width: Absorption Width - Bed Width

10.0 ft - 10.0 ft = _____ ft

4. DISTRIBUTION MEDIA: ROCK Project ID: Design

A. Rock Depth Below Distribution Pipe

6 in 0.50 ft

5. DISTRIBUTION MEDIA: REGISTERED TREATMENT PRODUCTS: CHAMBERS AND EZFLOW

A. Enter Dispersal Media: _____

B. Enter the Component: Length: _____ ft Width: _____ ft Depth: _____ ft

C. Number of Components per Row = Bed Length divided by Component Length (Round up)

_____ ft ÷ _____ ft = _____ components/row

Check registered product information for specific application details and design

D. Actual Bed Length = Number of Components/row X Component Length:

_____ components **X** _____ ft = _____

E. Number of Rows = Bed Width divided by Component Width (Round up)

_____ ft ÷ _____ ft = _____ rows *Adjust width so this is a whole number.*

F. Total Number of Components = Number of Components per Row X Number of Rows

_____ X _____ = _____ components

6. MOUND SIZING

A. Clean Sand Lift: Required Separation - Depth to Limiting Condition = Clean Sand Lift (1 ft minimum)

3.0 ft - 2.5 ft = 1.0 ft Design Sand Lift (optional): 1 ft

B. Upslope Height: Clean Sand Lift + Depth of Media +Depth to Cover Pipe+ Depth of Cover (1 ft)

1.0 ft + 0.50 ft + 0.5 ft + 1.0 ft = 3.0 ft

Land Slope %		0	1	2	3	4	5	6	7	8	9	10	11	12
Upslope Berm Ratio	3:1	3.00	2.91	2.83	2.75	2.68	2.61	2.54	2.48	2.42	2.36	2.31	2.26	2.21
	4:1	4.00	3.85	3.70	3.57	3.45	3.33	3.23	3.12	3.03	2.94	2.86	2.78	2.70

C. Select Upslope Berm Multiplier (based on land slope): 2.83

D. Calculate Upslope Berm Width: Multiplier X Upslope Mound Height

2.83 ft X 3.0 ft = 8.5 ft

E. Calculate Drop in Elevation Under Bed: Bed Width X Land Slope ÷ 100 = Drop (ft)

10.0 ft X 2.0 % ÷ 100 = 0.20 ft

F. Calculate Downslope Mound Height: Upslope Height + Drop in Elevation

3.0 ft + 0.20 ft = 3.2 ft

Land Slope %		0	1	2	3	4	5	6	7	8	9	10	11	12
Downslope Berm Ratio	3:1	3.00	3.09	3.19	3.30	3.41	3.53	3.66	3.80	3.95	4.11	4.29	4.48	4.69
	4:1	4.00	4.17	4.35	4.54	4.76	5.00	5.26	5.56	5.88	6.25	6.67	7.14	7.69

G. Select Downslope Berm Multiplier (based on land slope): 3.19

H. Calculate Downslope Berm Width: Downslope Multiplier X Downslope Height

3.19 x 3.2 ft = 10.2 ft

I. Calculate Minimum Berm to Cover Absorption Area: Downslope Absorption Width + 4 feet

_____ ft + 4 ft = 4.0 ft

J. Design Downslope Berm = greater of 4H and 4I: 10.2 ft

K. Select Endslope Berm Multiplier: 3.00 *(usually 3.0 or 4.0)*

L. Calculate Endslope Berm X Downslope Mound Height = Endslope Berm Width

3.00 ft X 3.2 ft = 9.6 ft

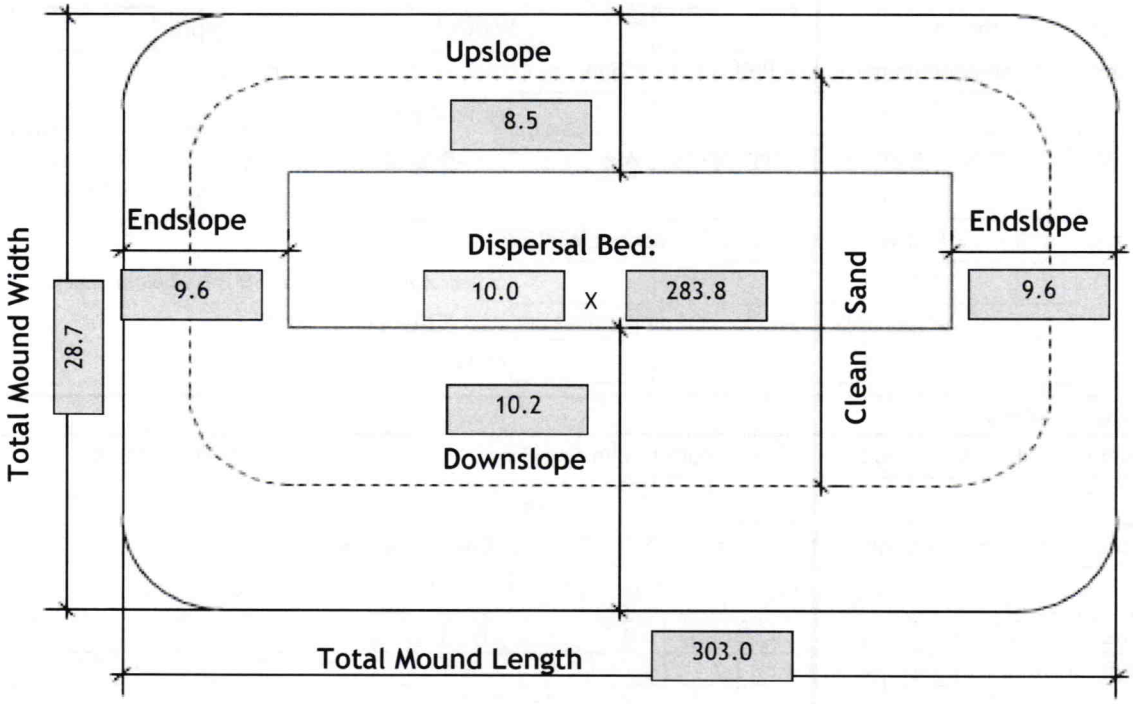
M. Calculate Mound Width: Upslope Berm Width + Bed Width + Downslope Berm Width

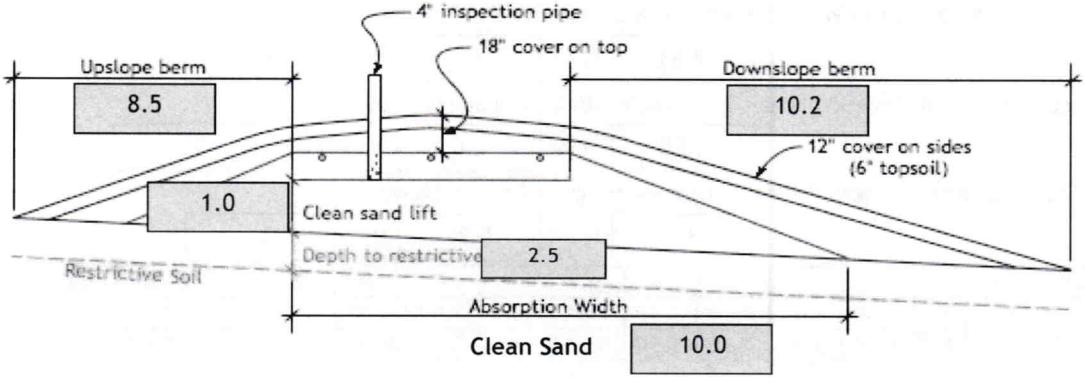
8.5 ft + 10.0 ft + 10.2 ft = 28.7 ft

N. Calculate Mound Length: Endslope Berm Width + Bed Length + Endslope Berm Width

9.6 ft + 283.8 ft + 9.6 ft = 303.0 ft

7. MOUND DIMENSIONS	Project ID:	Design





Comments:

University of Minnesota Onsite Sewage Treatment Program

Mound Materials Worksheet

MINNESOTA POLLUTION CONTROL AGENCY

Project ID: Design

v 04.01.2020

A. Rock *Volume* : (Rock Below Pipe + Rock to cover pipe (*pipe outside dia + ~2 inch)*) X *Bed Length* X *Bed Width* = *Volume*

(6 in + 4.0 in) ÷ 12 X 283.8 ft X 10.0 ft = 2365.3 ft^3

Divide ft^3 by 27 ft^3/yd^3 to calculate cubic yards: 2365.3 ft^3 ÷ 27 = 87.6 yd^3

Add 30% for constructability: 87.6 yd^3 X 1.3 = 113.9 yd^3

B. Calculate *Clean Sand Volume:*

Volume Under Rock bed : *Average Sand Depth* x *Media Width* x *Media Length* = cubic feet

1.1 ft X 10.0 ft X 283.8 ft = 3122.2 ft^3

For a Mound on a slope from 0-1%

Volume from Length = ((Upslope Mound Height - 1) X Absorption Width Beyond Bed X Media Bed Length)

ft - 1) X X ft =

Volume from Width = ((Upslope Mound Height - 1) X Absorption Width Beyond Bed X Media Bed Width)

ft - 1) X X ft =

Total Clean Sand Volume : *Volume from Length* + *Volume from Width* + *Volume Under Media*

ft^3 + ft^3 + ft^3 = ft^3

For a Mound on a slope greater than 1%

Upslope Volume : ((*Upslope Mound Height - 1*) x 3 x *Bed Length*) ÷ 2 = cubic feet

((3.0 ft - 1) X 3.0 ft X 283.8) ÷ 2 = 851.5 ft^3

Downslope Volume : ((*Downslope Height - 1)* x Downslope Absorption Width x *Media Length*) ÷ 2 = cubic feet

((3.2 ft - 1) X ft X 283.8) ÷ 2 = ft^3

Endslope Volume : (*Downslope Mound Height - 1)* x 3 x *Media Width* = cubic feet

(3.2 ft - 1) X 3.0 ft X 10.0 ft = 66.0 ft^3

Total Clean Sand Volume : *Upslope Volume* + *Downslope Volume* + *Endslope Volume* + *Volume Under Media*

851.5 ft^3 + ft^3 + 66.0 ft^3 + 3122.2 ft^3 = 4039.7 ft^3

Divide ft^3 by 27 ft^3/yd^3 to calculate cubic yards: 4039.7 ft^3 ÷ 27 = 149.6 yd^3

Add 30% for constructability: 149.6 yd^3 X 1.3 = 194.5 yd^3

C. Calculate *Sandy Berm Volume:*

Total Berm Volume (approx) : ((Avg. Mound Height - 0.5 ft topsoil) x Mound Width x Mound Length) ÷ 2

(3.1 - 0.5)ft X 28.7 ft X 303.0) ÷ 2 = 11305.4 ft^3

Total Mound Volume - Clean Sand volume -Rock Volume = cubic feet

11305.4 ft^3 - 4039.7 ft^3 - 2365.3 ft^3 = 4900.4 ft^3

Divide ft^3 by 27 ft^3/yd^3 to calculate cubic yards: 4900.4 ft^3 ÷ 27 = 181.5 yd^3

Add 30% for constructability: 181.5 yd^3 x 1.3 = 235.9 yd^3

D. Calculate *Topsoil Material Volume: Total Mound Width X Total Mound Length X .5 ft*

28.7 ft X 303.0 ft X 0.5 ft = 4348.2 ft^3

Divide ft^3 by 27 ft^3/yd^3 to calculate cubic yards: 4348.2 ft^3 ÷ 27 = 161.0 yd^3

Add 30% for constructability: 161.0 yd^3 x 1.3 = 209.4 yd^3

Pressure Distribution Design Worksheet

University of Minnesota Onsite Sewage Treatment Program

MINNESOTA POLLUTION CONTROL AGENCY

Project ID: Design v 04.01.2020

1. Media Bed Width: 10 ft

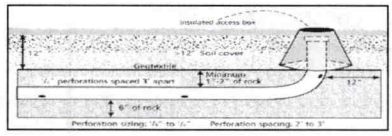
2. Minimum Number of Laterals in system/zone = Rounded up number of [(Media Bed Width - 4) ÷ 3] + 1.

[(10 - 4) ÷ 3] + 1 = 3 laterals *Does not apply to at-grades*

3. Designer Selected *Number of Laterals*: 3 laterals
Cannot be less than line 2 (Except in at-grades)

4. Select *Perforation Spacing*: 3.00 ft

5. Select *Perforation Diameter Size:* 7/32 in



6. *Length of Laterals* = Media Bed Length - 2 Feet.

50.0 - 2ft = 48.0 ft *Perforation can not be closer then 1 foot from edge.*

7. Determine the *Number of Perforation Spaces*. Divide the *Length of Laterals* by the *Perforation Spacing* and round down to the nearest whole number.

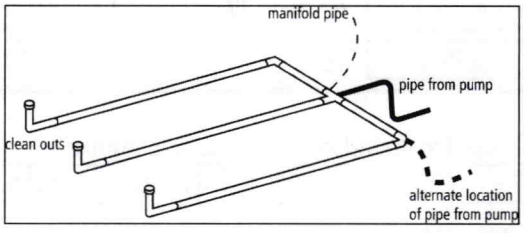
Number of Perforation Spaces = 48.0 ft ÷ 3.0 ft = 16 Spaces

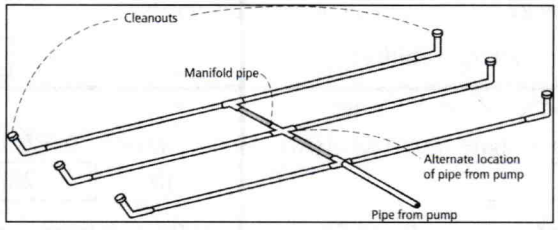
8. *Number of Perforations per Lateral* is equal to 1.0 plus the *Number of Perforation Spaces*. Check table below to verify the number of perforations per lateral guarantees less than a 10% discharge variation. The value is double with a center manifold.

Perforations Per Lateral = 16 Spaces + 1 = 17 Perfs. Per Lateral

Maximum Number of Perforations Per Lateral to Guarantee <10% Discharge Variation

1/4 Inch Perforations						7/32 Inch Perforations					
Perforation Spacing (Feet)	Pipe Diameter (Inches)					Perforation Spacing (Feet)	Pipe Diameter (Inches)				
	1	1¼	1½	2	3		1	1¼	1½	2	3
2	10	13	18	30	60	2	11	16	21	34	68
2½	8	12	16	28	54	2½	10	14	20	32	64
3	8	12	16	25	52	3	9	14	19	30	60
3/16 Inch Perforations						1/8 Inch Perforations					
Perforation Spacing (Feet)	Pipe Diameter (Inches)					Perforation Spacing (Feet)	Pipe Diameter (Inches)				
	1	1¼	1½	2	3		1	1¼	1½	2	3
2	12	18	26	46	87	2	21	33	44	74	149
2½	12	17	24	40	80	2½	20	30	41	69	135
3	12	16	22	37	75	3	20	29	38	64	128





9. *Total Number of Perforations* equals the *Number of Perforations per Lateral* multiplied by the *Number of Perforated Laterals.*

17 Perf. Per Lat. X 3 Number of Perf. Lat. = 51 Total Number of Perf.

10. Spacing of laterals; Must be greater than 1 foot and no more than 3 feet: 2.0 ft

11. Select *Type of Manifold Connection* (End or Center): End

12. *Select Lateral Diameter (See Table)*: 2.00 in

ONSITE SEWAGE TREATMENT PROGRAM

Pressure Distribution Design Worksheet

MINNESOTA POLLUTION CONTROL AGENCY

13. Calculate the *Square Feet per Perforation.*

Recommended value is 4-11 ft2 per perforation, Does not apply to At-Grades

a. *Bed Area* = Bed Width (ft) X Bed Length (ft)

10	ft X	50	ft =	500	ft^2

b. *Square Foot per Perforation* = *Bed Area* ÷ by the *Total Number of Perfs*

500	ft^2 ÷	51	perf =	9.8	ft^2/perf

14. Select *Minimum Average Head*: 2.0 ft

15. Select *Perforation Discharge* based on Table: 0.80 GPM per Perf

16. *Flow Rate* = *Total Number of Perfs X Perforation Discharge.*

51	Perfs X	0.80	GPM per Perforation =	41	GPM

17. *Volume of Liquid Per Foot of Distribution Piping (Table II)*: 0.170 Gallons/ft

18. *Volume of Distribution Piping* =

= [*Number of Perforated Laterals* X *Length of Laterals* X (Volume of Liquid Per Foot of Distribution Piping]

3	X	48	ft X	0.170	gal/ft	=	24.5	Gallons

19. Minimum Delivered Volume = Volume of Distribution Piping X 4

24.5	gals X	4	=	97.9	Gallons

Perforation Discharge (GPM)				
Head (ft)	Perforation Diameter			
	1/8	3/16	7/32	1/4
1.0[a]	0.18	0.41	0.56	0.74
1.5	0.22	0.51	0.69	0.9
2.0[b]	0.26	0.59	0.80	1.04
2.5	0.29	0.65	0.89	1.17
3.0	0.32	0.72	0.98	1.28
4.0	0.37	0.83	1.13	1.47
5.0[c]	0.41	0.93	1.26	1.65
1 foot	Dwellings with 3/16 inch to 1/4 inch perforations			
2 feet	Dwellings with 1/8 inch perforations			
	Other establishments and MSTS with 3/16 inch to 1/4 inch perforations			
5 feet	Other establishments and MSTS with 1/8 inch perforations			

Table II Volume of Liquid in Pipe	
Pipe Diameter (inches)	Liquid Per Foot (Gallons)
1	0.045
1.25	0.078
1.5	0.110
2	0.170
3	0.380
4	0.661

Comments/Special Design Considerations:

Design for pump to one 10X50 rock bed. Duplex pump tank with a pump to each rock bed proposed.

University of Minnesota Onsite Sewage Treatment Program

Basic Pump Selection Design Worksheet

MINNESOTA POLLUTION CONTROL AGENCY

1. PUMP CAPACITY Project ID: Design v 04.01.2020

Pumping to Gravity or Pressure Distribution: Pressure

A. If pumping to gravity enter the gallon per minute of the pump: _____ GPM *(10 - 45 gpm)*

B. If pumping to a pressurized distribution system: 41.0 GPM

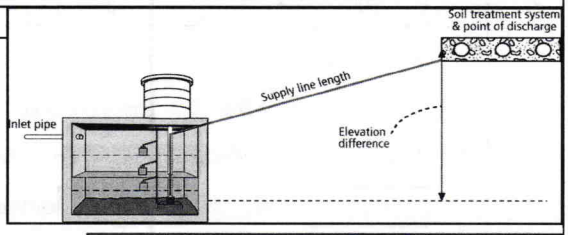
C. Enter pump description: Demand Dosing

2. HEAD REQUIREMENTS

A. Elevation Difference between pump and point of discharge: 12 ft

B. Distribution Head Loss: 6 ft

C. Additional Head Loss: _____ ft (due to special equipment, etc.)



Distribution Head Loss	
Gravity Distribution = 0ft	
Pressure Distribution based on Minimum Average Head Value on Pressure Distribution Worksheet:	
Minimum Average Head	**Distribution Head Loss**
1ft	5ft
2ft	6ft
5ft	10ft

D. 1. Supply Pipe Diameter: 2.0 in

2. Supply Pipe Length: 25 ft

E. **Friction Loss in Plastic Pipe per 100ft** from Table I:

Friction Loss = 4.23 ft per 100ft of pipe

F. Determine *Equivalent Pipe Length* from pump discharge to soil dispersal area discharge point. Estimate by adding 25% to supply pipe length for fitting loss. *Supply Pipe Length* X 1.25 = *Equivalent Pipe Length*

25 ft X 1.25 = 31.3 ft

Table I. Friction Loss in Plastic Pipe per 100ft

Flow Rate (GPM)	Pipe Diameter (inches)			
	1	1.25	1.5	2
10	9.1	3.1	1.3	0.3
12	12.8	4.3	1.8	0.4
14	17.0	5.7	2.4	0.6
16	21.8	7.3	3.0	0.7
18		9.1	3.8	0.9
20		11.1	4.6	1.1
25		16.8	6.9	1.7
30		23.5	9.7	2.4
35			12.9	3.2
40			16.5	4.1
45			20.5	5.0
50				6.1
55				7.3
60				8.6
65				10.0
70				11.4
75				13.0
85				16.4
95				20.1

G. Calculate *Supply Friction Loss* by multiplying *Friction Loss Per 100ft* by the *Equivalent Pipe Length* and divide by 100.

Supply Friction Loss =

4.23 ft per 100ft X 31.3 ft ÷ 100 = 1.3 ft

H. *Total Head* requirement is the sum of the *Elevation Difference* + Distribution Head Loss, + Additional Head Loss + Supply Friction Loss

12.0 ft + 6.0 ft + _____ ft + 1.3 ft = 19.3 ft

3. PUMP SELECTION

A pump must be selected to deliver at least **41.0** GPM with at least **19.3** feet of total head.

Comments:

University of Minnesota Onsite Sewage Treatment Program

Pump Tank Design Worksheet (Demand Dose)

MINNESOTA POLLUTION CONTROL AGENCY

DETERMINE TANK CAPACITY AND DIMENSIONS — Project ID: Design — v 04.01.2020

1. A. *Design Flow (Design Sum. 1A)*: split 3400 gpd: 1700 GPD — C. Tank Use: Dosing
   B. Min. required pump tank capacity: 1500 Gal — D. Recommended pump tank capacity: 2-1500 Gal

2. A. Tank Manufacturer: Lakes or equal — B. Tank Model: 3400 gpd flow will be split
   C. Capacity from manufacturer: Gallons
   D. Gallons per inch from manufacturer: 10.8 Gallons per inch
   E. Liquid depth of tank from manufacturer: 49.0 inches

Note: Design calculations are based on this specific tank. Substituting a different tank model will change the pump float or timer settings. Contact designer if changes are necessary.

DETERMINE DOSING VOLUME

3 Calculate *Volume to Cover Pump* (The inlet of the pump must be at least 4-inches from the bottom of the pump tank & 2 inches of water covering the pump is recommended)

(Pump and block height + 2 inches) X *Gallons Per Inch*

(18 in + 2 inches) X 10.8 Gallons Per Inch = 216 Gallons

4 ***Minimum*** *Delivered Volume* = 4 X Volume of Distribution Piping:

-Item 18 of the Pressure Distribution or Item 11 of Non-level 98 **Gallons (Minimum dose)** 9.1 inches/dose

5 Calculate ***Maximum*** *Pumpout Volume* (25% of Design Flow)

Design Flow: 1700 GPD X 0.25 = 425 **Gallons (Maximum dose)** 39.4 inches/dose

6 *Select a pumpout volume that meets both Minimum and Maximum:* 275 Gallons

7 Calculate *Doses Per Day* = Design Flow ÷ *Delivered Volume*

1700 gpd ÷ 275 gal = 6.18 *Doses*

8 Calculate Drainback:

A. *Diameter of Supply Pipe* = 2 inches

B. Length of Supply Pipe = 25 feet

C. *Volume of Liquid Per Lineal Foot of Pipe* = 0.170 Gallons/ft

D. *Drainback = Length of Supply Pipe X Volume of Liquid Per Lineal Foot of Pipe*

25 ft X 0.170 gal/ft = 4.3 Gallons

9. *Total Dosing Volume = Delivered Volume* plus *Drainback*

275 gal + 4.3 gal = 279 Gallons

10. Minimum Alarm Volume = Depth of alarm (2 or 3 inches) X gallons per inch of tank

3 in X 10.8 gal/in = 32.4 Gallons

Volume of Liquid in Pipe	
Pipe Diameter (inches)	**Liquid Per Foot (Gallons)**
1	0.045
1.25	0.078
1.5	0.110
2	0.170
3	0.380
4	0.661

DEMAND DOSE FLOAT SETTINGS

11. Calculate *Float Separation Distance* using *Dosing Volume*.

Total Dosing Volume / Gallons Per Inch

279 gal ÷ 10.8 gal/in = 25.9 Inches

12. Measuring from bottom of tank:

A. *Distance to set Pump Off Float* = Pump + block height + 2 inches

18 in + 2 in = 20 Inches

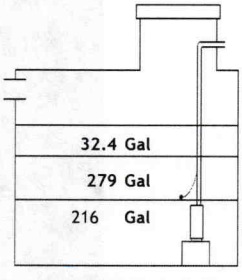
B. *Distance to set Pump On Float=Distance to Set Pump-Off Float + Float Separation Distance*

20 in + 25.9 in = 46 Inches

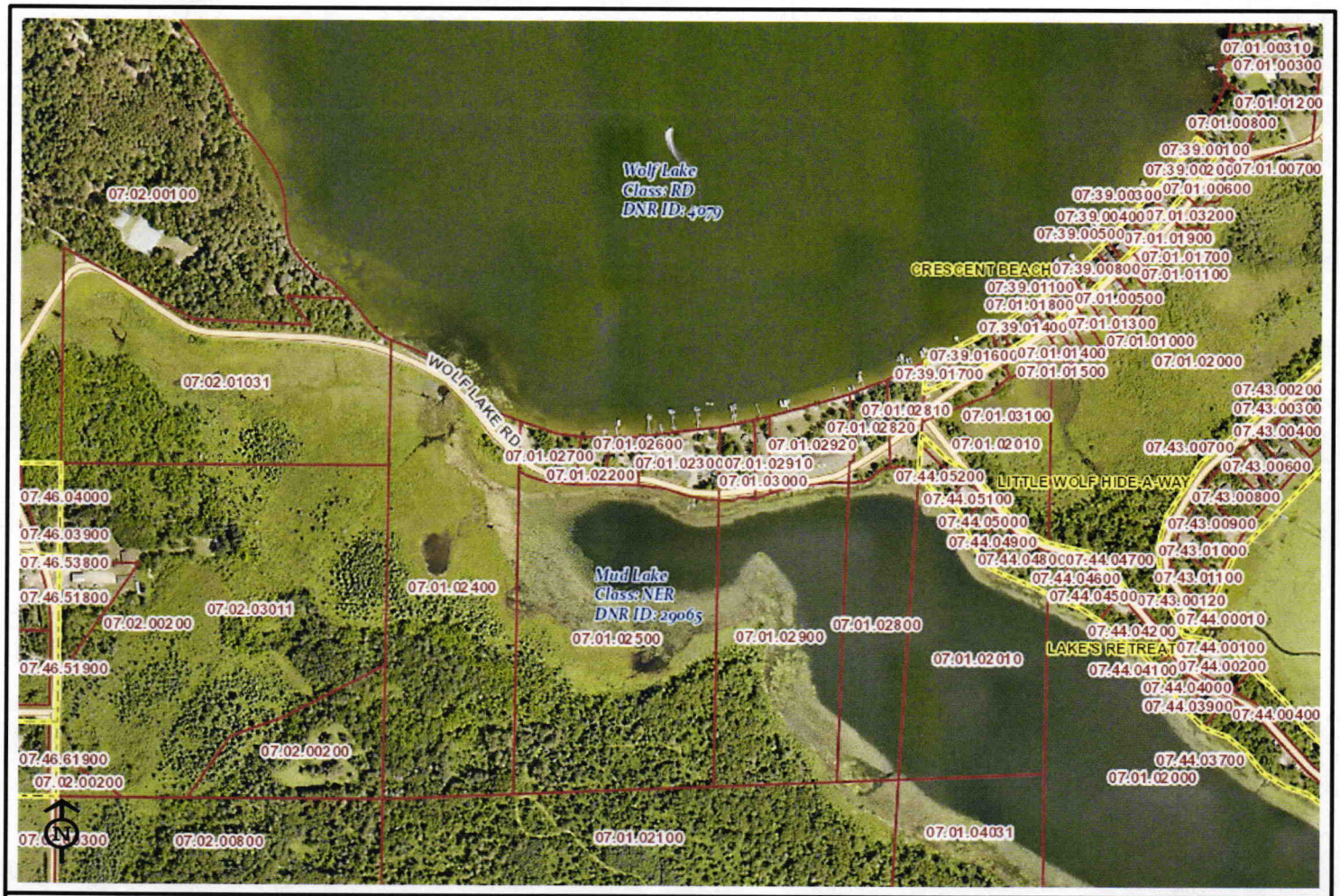
C. *Distance to set Alarm Float = Distance to set Pump-On Float + Alarm Depth* (2-3 inches)

46 in + 3.0 in = 49 Inches

Inches for Dose:	25.9	in
Alarm Depth	48.9	in
Pump On	45.9	in
Pump Off	20.0	in




WOLF LAKE
FOUR (4) PROPOSED 2000 SEPTIC TANKS TO MEET FLOW TOTAL FLOW CAPACITY – TANKS TO BE LOCATED BASED ON ACTUAL EXISTING PIPE LAYOUT WILL REQUIRE VARIANCE TO INSTALL WITHIN 150 FOOT SETBACK FROM WOLF LAKE
EXISTING 1500 GAL CONCRETE SEPTIC TANK
PROPOSED 1500 GAL CONCRETE SEPTIC TANK
EXISTING 1500 GAL CONCRETE SEPTIC TANK
EXISTING 1500 GALLON DUPLEX PUMP STATION
NON DWELLING NO SETBACK
DWELLING 20' SETBACK TO ROCK BED
TRANSIENT WELL MN# 779077
EXISTING 10X73 ROCKBED
EXISTING 10X73 ROCKBED
N
1"=40'
LORI HILMER
32328 WOLF LAKE RD
CASS LAKE, MN
PARCEL 07010250 & 07010291
09/22/22
HWR SEPTIC DESIGNS, LLC L3106
PROPOSED 10X20 FOOT ROCKBED EXTENSIONS APPROX 60 FEET FROM TRANSIENT WELL. WELL CASED TO 55 FEET PER WELL LOG.
PROPOSED 10X50 ROCKBEDS, APPROX 140 FEET FROM HIGH WATER. WILL REQUIRE VARIANCE FROM WOLF LAKE SETBACK OF 150 FEET.



Parcel Viewer

Hubbard County - 301 Court Ave, Park Rapids, MN 56470

Created 9/24/2022 at 10:09 AM

Minnesota Unique Well Number

779077

County Hubbard
Quad Andrusia
Quad ID 301B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
Minnesota Statutes Chapter 1031

Entry Date 06/22/2010
Update Date 03/19/2014
Received Date 06/08/2010

Well Name	Township	Range	Dir Section	Subsection
SHANGRI-LA-	145	32	W 1	CBAADA

Elevation 1311 **Elev. Method** 7.5 minute topographic map (+/- 5 feet)

Address

C/W 32326 WOLF LAKE RD CASS LAKE MN 56633

Stratigraphy Information

Geological Material	From	To (ft.)	Color	Hardness
SAND	0	8	BROWN	SOFT
SAND	8	60	BLUE	SOFT

Remarks

NEAREST KNOWN SOURCE OF CONTAMINATION: TYPE=MOUND.
REPLACED WELL UNIQUE NO. 547833.

Well Depth 60 ft. **Depth Completed** 60 ft. **Date Well Completed** 05/26/2010

Drill Method Non-specified Rotary **Drill Fluid** Bentonite

Use public supply/non-comm.-transient **Status** Active

Well Hydrofractured? Yes ☐ No ☒ **From** **To**

Casing Type Single casing **Joint**
Drive Shoe? Yes ☐ No ☐ **Above/Below**

Casing Diameter	Weight	Hole Diameter
4 in. To 55 ft.	lbs./ft.	8.5 in. To 60 ft.

Open Hole From ft. To ft.

Screen? ☒ **Type** plastic **Make**

Diameter	Slot/Gauze	Length	Set
4 in.	15	5 ft.	55 ft. 60 ft.

Static Water Level
7 ft. top of casing above LSD Measure 05/26/2010

Pumping Level (below land surface)
12 ft. 2 hrs. Pumping at 50 g.p.m.

Wellhead Completion
Pitless adapter manufacturer BULLDOG Model 4A0
☐ Casing Protection ☒ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Grouting Information Well Grouted? ☒ Yes ☐ No ☐ Not Specified

Material	Amount	From	To
bentonite	6 Sacks	0 ft.	52 ft.

Nearest Known Source of Contamination
75 feet East Direction Other Type
Well disinfected upon completion? ☒ Yes ☐ No

Pump ☒ Not Installed Date Installed
Manufacturer's name
Model Number HP Volt
Length of drop pipe ft Capacity g.p. Typ

Abandoned
Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance
Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Miscellaneous
First Bedrock Aquifer Quat. Water
Last Strat sand-gray Depth to Bedrock ft
Located by Minnesota Department of Health
Locate Method GPS SA Off (averaged) (15 meters)
System UTM - NAD83, Zone 15, Meters X 372736 Y 5251218
Unique Number Verification Info/GPS from data Input Date 09/02/2010

Angled Drill Hole

Well Contractor
Reed and Reed Water Well 1854 REED, J.
Licensee Business Lic. or Reg. No. Name of Driller

Soil Map—Hubbard County, Minnesota

Map Scale: 1:913 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 10 20 40 60

Feet: 0 40 80 160 240

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other

Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

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Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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Survey Area Data: Version 18, Sep 10, 2021

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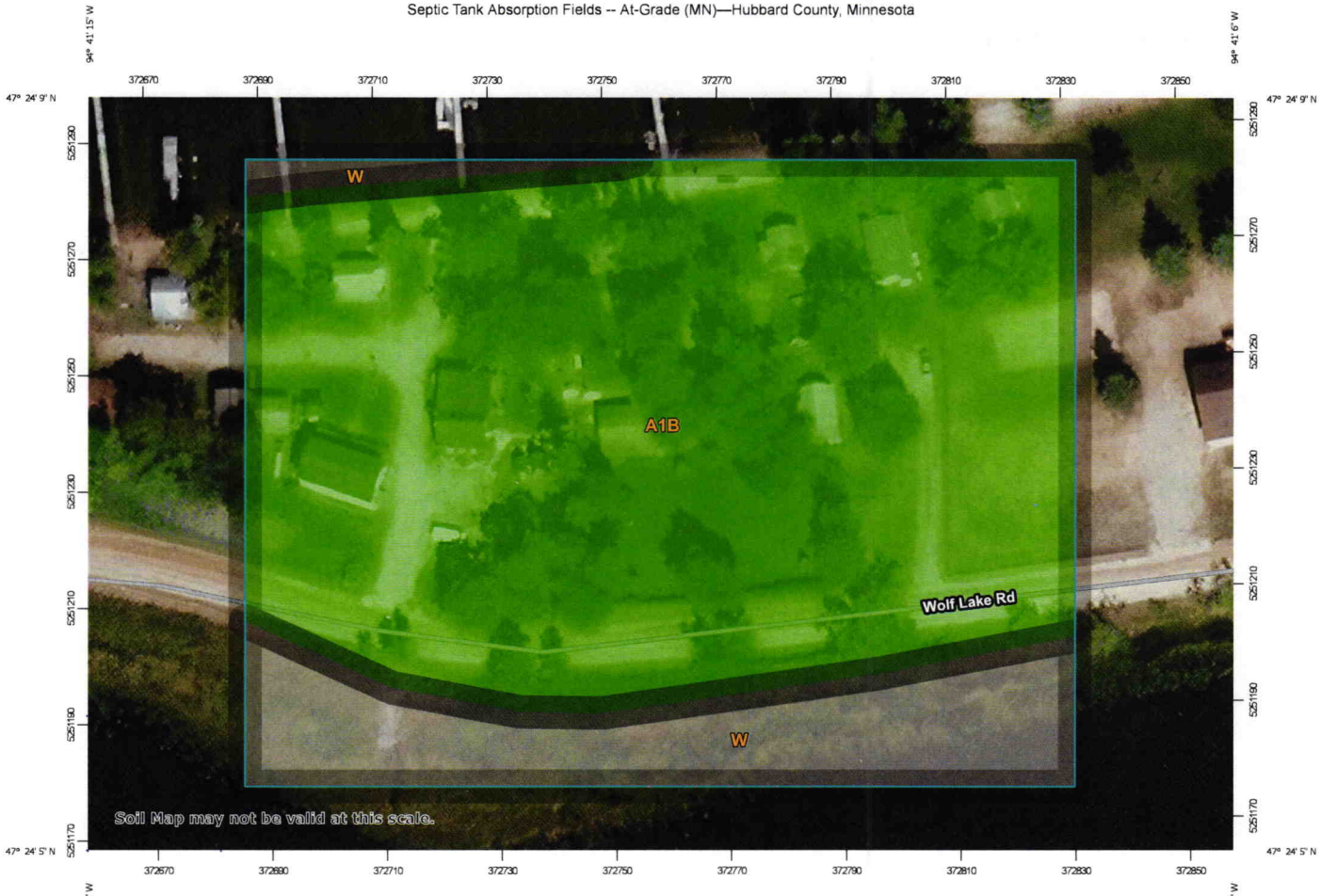
Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
A1B	Eagleview and Menahga soils, 1 to 8 percent slopes	3.2	81.6%
W	Water	0.7	18.4%
Totals for Area of Interest		**3.9**	**100.0%**

Septic Tank Absorption Fields -- At-Grade (MN)—Hubbard County, Minnesota



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N

Meters
0 10 20 40 60

Feet
0 40 80 160 240

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- Extremely limited
- Very limited
- Moderately limited
- Slightly limited
- Not limited
- Not rated or not available

Soil Rating Lines
- Extremely limited
- Very limited
- Moderately limited
- Slightly limited
- Not limited
- Not rated or not available

Soil Rating Points
- Extremely limited
- Very limited
- Moderately limited
- Slightly limited
- Not limited
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

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Septic Tank Absorption Fields — At-Grade (MN)

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
A1B	Eagleview and Menahga soils, 1 to 8 percent slopes	Not limited	Eagleview (60%)		3.2	81.6%
			Menahga (25%)			
W	Water	Not rated	Water (100%)		0.7	18.4%
Totals for Area of Interest					**3.9**	**100.0%**

Rating	Acres in AOI	Percent of AOI
Not limited	3.2	81.6%
Null or Not Rated	0.7	18.4%
Totals for Area of Interest	**3.9**	**100.0%**

Description

"At-grade septic tank absorption fields" are areas in which effluent from a septic tank is distributed into the soil surface through perforated pipe. In this system the drain field is placed on the soil surface and covered with soil material. The ratings are based on the soil properties that affect absorption of the effluent, construction and maintenance of the system, and public health. Saturated hydraulic conductivity (Ksat) is evaluated from the surface to a depth of 30 centimeters. Depth to saturation and depth to bedrock are evaluated from the surface to a depth of 203 centimeters. The frequency of ponding and flooding also is evaluated. Excessive slope may cause lateral seepage and surfacing of the effluent in downslope areas.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect this use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Slightly limited" indicates that the soil has features that are favorable for the specified use. "Moderately limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Good performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without special design or expensive installation procedures. "Extremely limited" indicates that the soil has one or more features that are very unfavorable for the specified use. The limitations generally cannot be overcome.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

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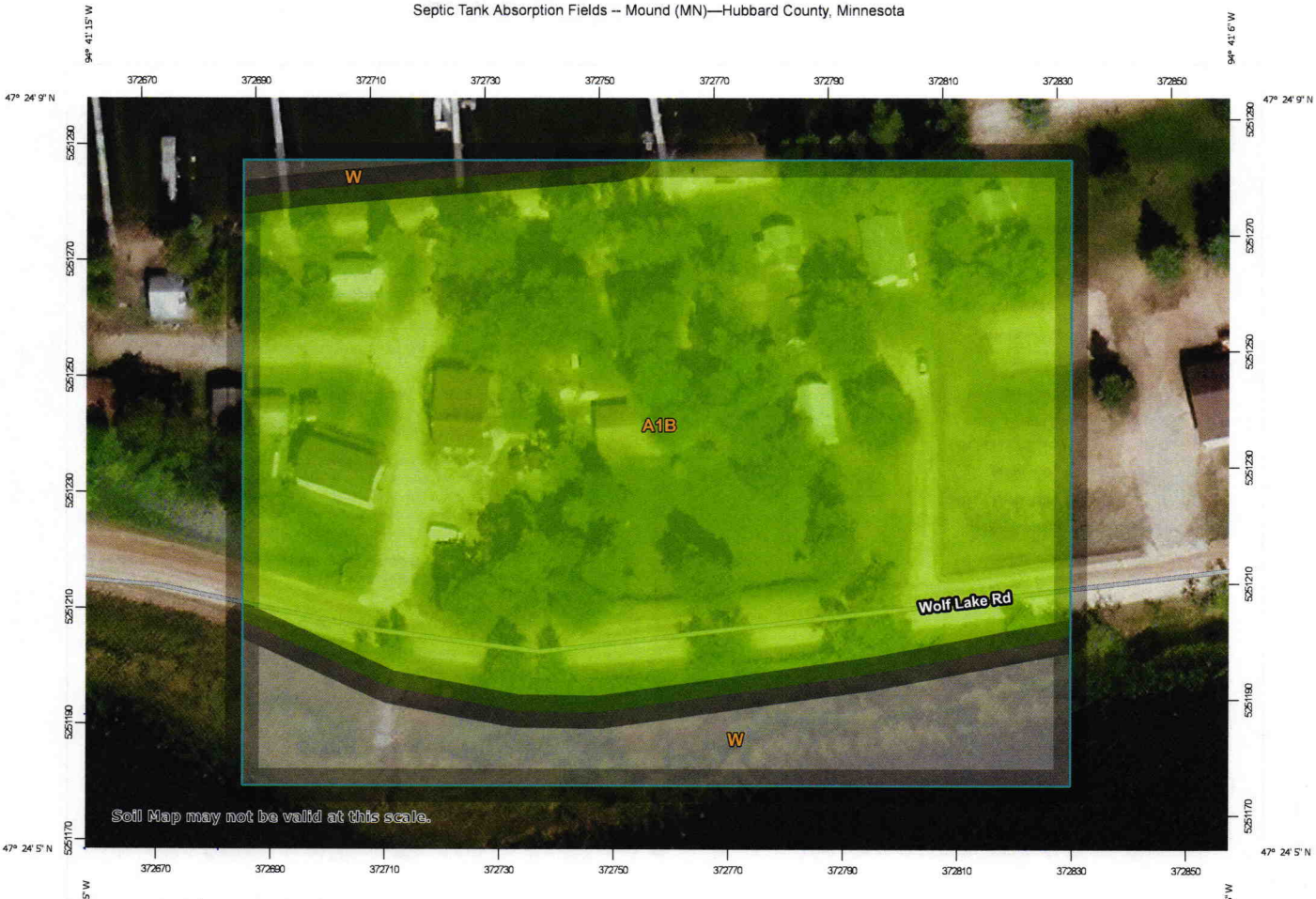
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Septic Tank Absorption Fields -- Mound (MN)—Hubbard County, Minnesota



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N

Meters: 0 10 20 40 60

Feet: 0 40 80 160 240

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- Extremely limited
- Very limited
- Moderately limited
- Slightly limited
- Not limited
- Not rated or not available

Soil Rating Lines
- Extremely limited
- Very limited
- Moderately limited
- Slightly limited
- Not limited
- Not rated or not available

Soil Rating Points
- Extremely limited
- Very limited
- Moderately limited
- Slightly limited
- Not limited
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

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Septic Tank Absorption Fields — Mound (MN)

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
A1B	Eagleview and Menahga soils, 1 to 8 percent slopes	Slightly limited	Eagleview (60%)	Slope (0.15)	3.2	81.6%
			Menahga (25%)	Slope (0.15)		
			Andrusia (5%)	Slope (0.15)		
			Meehan (3%)	Soil saturation (0.07)		
			Wurtsmith (2%)	Slope (0.02)		
W	Water	Not rated	Water (100%)		0.7	18.4%
Totals for Area of Interest					**3.9**	**100.0%**

Rating	Acres in AOI	Percent of AOI
Slightly limited	3.2	81.6%
Null or Not Rated	0.7	18.4%
Totals for Area of Interest	**3.9**	**100.0%**

Description

"Mound septic tank absorption fields" are areas in which effluent from a septic tank is distributed into the soil surface through perforated pipe. In this system the drain field is placed above the soil surface in a mound. The ratings are based on the soil properties that affect absorption of the effluent, construction and maintenance of the system, and public health. Saturated hydraulic conductivity (Ksat) is evaluated from the surface to a depth of 30 centimeters. Depth to saturation and depth to bedrock are evaluated from the surface to a depth of 203 centimeters. The frequency of ponding and flooding also is evaluated. Excessive slope may cause lateral seepage and surfacing of the effluent in downslope areas.

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Aggregation Method: Dominant Condition

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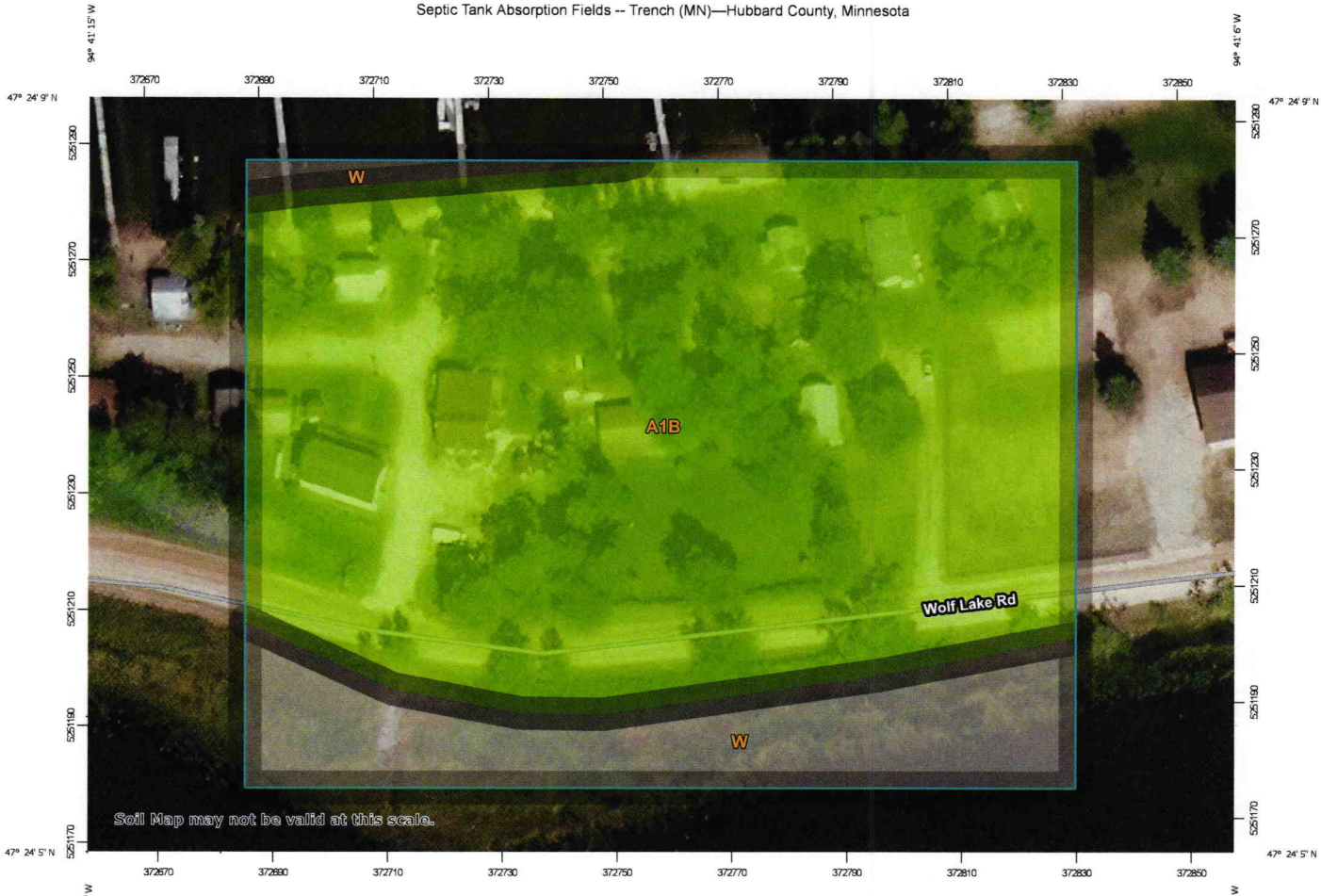
Tie-break Rule: Higher

Septic Tank Absorption Fields -- Trench (MN)—Hubbard County, Minnesota



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N

Meters
0 10 20 40 60

Feet
0 40 80 160 240

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

MAP LEGEND

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- Area of Interest (AOI)

Soils

Soil Rating Polygons
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- Very limited
- Moderately limited
- Slightly limited
- Not limited
- Not rated or not available

Soil Rating Lines
- Extremely limited
- Very limited
- Moderately limited
- Slightly limited
- Not limited
- Not rated or not available

Soil Rating Points
- Extremely limited
- Very limited
- Moderately limited
- Slightly limited
- Not limited
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Water Features
- Streams and Canals

Transportation
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Background
- Aerial Photography

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Septic Tank Absorption Fields — Trench (MN)

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
A1B	Eagleview and Menahga soils, 1 to 8 percent slopes	Slightly limited	Eagleview (60%)	Excessive percolation (0.11)	3.2	81.6%
			Menahga (25%)	Excessive percolation (0.11)		
			Andrusia (5%)	Excessive percolation (0.11)		
				Soil saturation (0.08)		
W	Water	Not rated	Water (100%)		0.7	18.4%
Totals for Area of Interest					**3.9**	**100.0%**

Rating	Acres in AOI	Percent of AOI
Slightly limited	3.2	81.6%
Null or Not Rated	0.7	18.4%
Totals for Area of Interest	**3.9**	**100.0%**

Description

Trench septic tank absorption fields are areas in which effluent from a septic tank is distributed into the soil through perforated pipe. In this system the drain field is placed in a trench and covered with soil material. The ratings are based on the soil properties that affect absorption of the effluent, construction and maintenance of the system, and public health. Saturated hydraulic conductivity (Ksat) is evaluated from a depth of 30 to 107 centimeters. Depth to saturation and depth to bedrock are evaluated from the surface to a depth of 203 centimeters. The frequency of ponding and flooding also is evaluated. Excessive slope may cause lateral seepage and surfacing of the effluent in downslope areas.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect this use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Slightly limited" indicates that the soil has features that are favorable for the specified use. "Moderately limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Good performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without special design or expensive installation procedures. "Extremely limited" indicates that the soil has one or more features that are very unfavorable for the specified use. The limitations generally cannot be overcome.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as the one shown for the map unit. The percent composition of each component in a particular map unit is given to help the user better understand the extent to which the rating applies to the map unit.

Other components with different ratings may occur in each map unit. The ratings for all components, regardless the aggregated rating of the map unit, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Hubbard County, Minnesota

A1B—Eagleview and Menahga soils, 1 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2x14c
Elevation: 590 to 2,030 feet
Mean annual precipitation: 24 to 30 inches
Mean annual air temperature: 37 to 46 degrees F
Frost-free period: 110 to 160 days
Farmland classification: Not prime farmland

Map Unit Composition

Eagleview and similar soils: 60 percent
Menahga and similar soils: 25 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Eagleview

Setting

Landform: Flats
Landform position (three-dimensional): Rise
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Sandy outwash

Typical profile

A - 0 to 4 inches: loamy sand
E - 4 to 23 inches: sand
E and Bt - 23 to 37 inches: sand
C - 37 to 79 inches: sand

Properties and qualities

Slope: 1 to 8 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 10 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 3.7 inches)

Interpretive groups

Land capability classification (irrigated): 4s
Land capability classification (nonirrigated): 4s

Hydrologic Soil Group: A
Ecological site: F057XY023MN - Dry Sandy Upland Coniferous Forest
Forage suitability group: Sandy (G057XN022MN)
Other vegetative classification: Sandy (G057XN022MN)
Hydric soil rating: No

Description of Menahga

Setting

Landform: Flats
Landform position (three-dimensional): Rise
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Sandy outwash

Typical profile

A - 0 to 3 inches: loamy sand
Bw - 3 to 17 inches: loamy sand
C - 17 to 79 inches: sand

Properties and qualities

Slope: 1 to 8 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 10 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 3.0 inches)

Interpretive groups

Land capability classification (irrigated): 4s
Land capability classification (nonirrigated): 4s
Hydrologic Soil Group: A
Ecological site: F057XY023MN - Dry Sandy Upland Coniferous Forest
Forage suitability group: Sandy (G057XN022MN)
Other vegetative classification: Sandy (G057XN022MN)
Hydric soil rating: No

Minor Components

Andrusia

Percent of map unit: 5 percent
Landform: Flats
Landform position (three-dimensional): Rise
Down-slope shape: Convex
Across-slope shape: Convex

Other vegetative classification: Sloping Upland, Low AWC, Acid (G057XN008MN)
Hydric soil rating: No

Roscommon

Percent of map unit: 4 percent
Landform: Flats
Landform position (three-dimensional): Dip
Down-slope shape: Concave
Across-slope shape: Linear
Other vegetative classification: Level Swale, Low AWC, Acid (G057XN007MN)
Hydric soil rating: Yes

Meehan

Percent of map unit: 3 percent
Landform: Flats
Landform position (three-dimensional): Talf
Down-slope shape: Concave
Across-slope shape: Linear
Other vegetative classification: Level Swale, Low AWC, Acid (G057XN007MN)
Hydric soil rating: No

Wurtsmith

Percent of map unit: 2 percent
Landform: Flats
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Other vegetative classification: Sloping Upland, Low AWC, Acid (G057XN008MN)
Hydric soil rating: No

Leafriver, frequently ponded

Percent of map unit: 1 percent
Landform: Depressions
Down-slope shape: Concave
Across-slope shape: Concave
Other vegetative classification: Organic (G057XN014MN)
Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Hubbard County, Minnesota
Survey Area Data: Version 18, Sep 10, 2021

Well Management Section
Environmental Health Division
625 North Robert Street
P.O. Box 64975
St. Paul, Minnesota 55164-0975
651-201-4600 or 800-383-9808
health.wells@state.mn.us
www.health.state.mn.us/wells

DEPARTMENT OF HEALTH

Isolation Distances From a Water-Supply Well

Minnesota Rules, Chapter 4725
Rules Relating to Wells and Borings

The isolation distances below are from Minnesota Rules, chapter 4725. Distances must be measured horizontally from the water-supply well. Minnesota Statutes, section 103I.205, subdivision 6, prohibits constructing, placing, or installing an actual or potential contaminant source from a well that is less than the minimum distance prescribed by rule. The minimum isolation distance must be maintained between a new well and a contamination source, even if the contamination source is no longer in use. An isolation distance is not required if the contamination source and any related contaminated soil have been removed. Additional information and explanations can be found in the *Rules Handbook, A Guide to the Rules Relating to Wells and Borings* or contact the Well Management Section at the number above.

Absorption area of a soil dispersal system		
average flow is greater than 10,000 gallons/day	300	feet[1]
serving a facility handling infectious or pathological wastes	150	feet[1]
average flow 10,000 gallons/day or less	50	feet[1]
Agricultural chemical		
tank or container with 25 gallons or more or 100 pounds or more dry weight, or equipment filling or cleaning area without safeguards	150	feet
storage or equipment filling or cleaning area with safeguards	100	feet
storage or equipment filling or cleaning area with safeguards and roofed	50	feet
buried piping	50	feet
multiple tanks or containers for residential retail sale or use, no single tank or container exceeding, but aggregate volume exceeding 56 gallons or 100 pounds dry weight	50	feet
Anhydrous ammonia tank	50	feet
Animal		
feedlot, unroofed, 300 or more animal units	100	feet[1]
feedlot, more than 1.0, but less than 300 animal units	50	feet[1]
building or poultry building, including a horse riding area, more than 1.0 animal unit	50	feet[1]
rendering plant	50	feet
feeding or watering area within a pasture, more than 1.0 animal unit	50	feet[1]
area to bury more than one animal unit	50	feet
building, feedlot, confinement area, or kennel, 0.1 to 1.0 animal unit	20	feet[1,2]
Building, building projection, deck, overhang, permanent structure	3	feet[3]
Cesspool	75	feet[1]
Cistern or reservoir, buried, nonpressurized water supply	20	feet
Commercial compost site	50	feet
Construction or demolition debris disposal area	50	feet[1]
Cooling water pond, industrial	50	feet[1]
Deicing chemicals, bulk road	50	feet[1]
Drainfield (see Absorption area)		
Dry well (sewage)	75	feet[1]
Electric transmission line	10	feet[4]
Electrical transformer storage area, oil-filled	50	feet
Elevator boring, not conforming to rule	50	feet
conforming to rule	20	feet
Fertilizer chemigation tank, safeguarded, from irrigation well only	20	feet[5]
Floor drain, grate, or trough		
connected to a buried sewer	50	feet
if buried sewer is air-tested, approved materials, serving one building, or two or less single-family residences	20	feet[2]
Frost-proof yard hydrant or discharge of a frost-proof hydrant draining into the soil, fire hydrant or flushing hydrant	10	feet
Gas (flammable or volatile) pipe	10	feet[4]
Grave or mausoleum	50	feet
Gravel pocket or French drain for clear water drainage	20	feet
Gray-water dispersal area	50	feet[1]
Hazardous substance		
tank or container, above ground or underground, 56 gallons or more, or 100 pounds or more dry weight, without safeguards	150	feet
tank or container, above ground or underground, 56 gallons or more, or 100 pounds or more dry weight with safeguards	100	feet
buried piping	50	feet
multiple storage tanks or containers for residential retail sale or use, no single tank or container exceeding 56 gallons or 100 pounds, but aggregate volume exceeding	50	feet
Horizontal ground source closed loop heat exchanger buried piping	50	feet
Horizontal ground source closed loop heat exchanger buried piping and horizontal piping, approved materials and heat transfer fluid	10	feet[2]
Household solid waste disposal area, single residence	50	feet[1]
Interceptor, including a flammable waste or sediment	50	feet
Land spreading area for sewage, septage, or sludge	50	feet[1]
Landfill or dump, mixed municipal solid waste from multiple persons	300	feet[1]
Landfill, permitted demolition debris	300	feet[1]
Leaching pit	75	feet[1]
Liquid propane (LP) tank	10	feet[4]

Manure (liquid) storage basin or lagoon		
unpermitted or noncertified	300	feet[1]
approved earthen liner	150	feet[1]
approved concrete or composite liner	100	feet[1]
Manure (solid) storage area, not covered with a roof	100	feet[1]
Ordinary high water level of a stream, river, pond, storm water retention pond, lake, or reservoir	35	feet[2]
Petroleum		
tank or container, 1100 gallons or more, without safeguards	150	feet
tank or container, 1100 gallons or more, with safeguards	100	feet
tank or container, buried, between 56 and 1100 gallons	50	feet
tank or container, not buried, between 56 and 1100 gallons	20	feet[6]
buried piping	50	feet
Petroleum or crude oil pipeline to a refinery or distribution center	100	feet
Pit or unfilled space more than 4 feet in depth	20	feet
Pollutant or contaminant that may drain into the soil	50	feet[1]
Privy, nonportable	50	feet[1]
portable (privy) or toilet	20	feet[2]
Sand filter, watertight; peat filter; or constructed wetland	50	feet
Scrap yard	50	feet
Seepage pit	75	feet[1]
Septic tank	50	feet
Sewage holding tank, watertight	50	feet
Sewage sump		
capacity 100 gallons or more	50	feet
capacity less than 100 gallons, tested, conforming to rule	20	feet[2]
Sewage treatment device, watertight	50	feet
Sewer, buried		
collector, municipal, serving a facility handling infectious or pathological wastes, open-jointed or unapproved materials	50	feet
approved materials, tested, serving one building, or two or less single-family residences	20	feet[2]
Solid waste transfer station	50	feet
Storm water drain pipe, 8 inches or greater in diameter	20	feet[2]
Swimming pool, in-ground	20	feet
Unused, unsealed well or boring	50	feet
Vertical heat exchanger (vertical) piping, conforming to rule	35	feet[2]
horizontal piping conforming to rule	10	feet[2]
Wastewater rapid infiltration basin, municipal or industrial	300	feet[1]
Wastewater spray irrigation area, municipal or industrial	150	feet[1]
Wastewater stabilization pond		
municipal, 500 or more gallons/acre/day of leakage	300	feet[1]
municipal, less than 500 gallons/acre/day of leakage	150	feet[1]
industrial	150	feet[1]
Wastewater treatment unit tanks, vessels and components (package plant)	100	feet
Water treatment backwash disposal area	50	feet[1]
Water treatment backwash holding basin, reclaim basin, or surge tank		
with a direct sewer connection	50	feet
with a backflow protected sewer connection	20	feet

Additional Isolation Distances for Community Public Water-Supply Wells

Highest water or flood level	50	feet
Property line, unless legally controlled through an easement	50	feet

[1] A sensitive water-supply well must be located at least twice the indicated distance.

A sensitive water-supply well is a well with less than 50 feet of watertight casing, and which is not cased below a confining layer or confining materials of at least 10 feet in thickness.

[2] A community public water-supply well must be a minimum of 50 feet from this contamination source.

[3] A well or boring may not be constructed inside a building except as provided for by Minnesota Rules, part 4725.2175.

[4] A well or boring may be located between 5 and 10 feet of an electric transmission line, gas pipe or LP tank if the well or boring is placarded, and work is not performed on the well or boring unless the electric line is deenergized and grounded or shielded, and the LP tank does not contain flammable gas.

[5] The 20-foot distance applies only to an irrigation well and a fertilizer chemigation supply tank meeting the requirements of Minnesota Rules, chapter 1505.

[6] A community public water-supply well must be a minimum of 50 feet from a petroleum tank or container with a capacity between 56 and 1,100 gallons, unless the tank or container is used to fuel emergency pumping equipment and is located in a room or building separate from the community well; and is of double-wall construction with leak detection between walls; or is protected with secondary containment.

Online Information

- Well Management Program (www.health.state.mn.us/wells).
- Minnesota Rules, Chapter 4725 Wells and Borings (www.revisor.mn.gov/rules/4725/).
- Minnesota Statutes, Chapter 103I Wells, Borings, and Underground Uses (www.revisor.mn.gov/statutes/cite/103I).

To obtain this information in a different format call 651-201-4600. Printed on recycled paper.
Publications\Isolation Distances From a Water-Supply Well 10/21/2019R

A0000315372

QUIT CLAIM DEED Individual(s) to Individual(s)

OFFICE OF THE COUNTY RECORDER
HUBBARD COUNTY, MINNESOTA

No delinquent taxes and transfer entered; Certificate of Real Estate Value ( ) filed (✓) not required
Certificate of Real Estate Value No._____
March 20, 2006
Pam Heaton
County Auditor
by Kim
Deputy
07.01.02910
07.01.02300

CERTIFIED, FILED, AND/OR RECORDED ON
03/20/2006 02:08PM
AS DOC #: A0000315372

NICOLE K. LUETH
HUBBARD COUNTY RECORDER
BY 026
DEPUTY
PAGES: 1

STATE DEED TAX DUE HEREON: **Exempt**

Date: November 15, 2005

(reserved for recording data)

FOR VALUABLE CONSIDERATION, Ryan R. Hilmer, a single person, Grantor(s), hereby convey(s) and quit claim(s) to Lori L. Hilmer, Grantee(s), real property in Hubbard County, Minnesota, described as follows:

That part of Government Lot Ten (10), Section One (1), Township One Hundred Forty-five (145), Range Thirty-two (32), Hubbard County, Minnesota, lying westerly of a straight line from the shore line of Mud Lake (Spring Lake) through Point B and Point D to the shore line of Wolf Lake, according to the following description locating and identifying said Point B and said Point D; Commencing at the southwest corner of said Government Lot 10, thence North 00°16'20" East, bearing assumed, along the west line of said Government Lot 10, a distance of 1176.58 feet to an iron monument designated as Point A; thence North 80°46'54" East a distance of 147.51 feet to an iron monument described as Point B; thence on a reverse course to Point A; thence North 00°16'20" East a distance of 219.70 feet to an iron monument designated as Point C; thence North 78°14'33" East a distance of 141.92 feet to an iron monument designated as Point D. The easterly boundary of the tract described above follows a row of wood posts on the land.

And that part of Government Lot Nine (9), said Section One (1), lying easterly of a straight line from the shore line of Mud Lake (Spring Lake) through Point E and Point F to the shore line of Wolf Lake, according to the following description locating and identifying said Point E and said Point F: Commencing at the southwest corner of said Government Lot 9; thence North 00°28'38" East, bearing assumed, along the west line of said Government Lot 9, a distance of 1326.17 feet; thence South 89°31'22" East a distance of 989.01 feet to an iron pipe ¾" in diameter designated as Point E; thence North 3°35'44" West a distance of 100.84 feet to an iron pipe 1½" in diameter designated as Point F.

Together with all hereditaments and appurtenances belonging thereto.

This deed is given pursuant to the Judgment and Decree of Dissolution entered in Court File No.: F7-04-1037 entered November 9, 2005 in Hubbard County, Minnesota.

The consideration for this transaction is less than $500.00.

Affix Deed Tax Stamp Here

Ryan R. Hilmer

STATE OF MINNESOTA
ss.
COUNTY OF BELTRAMI

The foregoing instrument was acknowledged before me this 23 day of November 2005, by Ryan R. Hilmer, a single person, Grantor(s).

NOTARIAL STAMP OR SEAL (OR OTHER TITLE OR RANK)

Shangri-La Resort

Take Hwy 71 to Hwy 2

Right on Hwy 2 toward Cass Lake

Left on Wolf Lake Road (2 miles)

Left into Shangri-La Resort

owner home log side house

32326 Wolf Lake Road
218-209-6332

30-V-22 Hilmer

Hubbard County - 301 Court Ave, Park Rapids, MN 56470

Created 9/26/2022 at 03:36 PM

PARCEL ID	TAXPAYER NAME 1	TAXPAYER NAME 2	TAXPAYER ADDRESS 1	TAXPAYER CITY	TAXI	ZIP
07.01.02400	BPIL LLC		PO BOX 70	LAKE BLUFF	IL	60044
07.01.02900	DEAN ANDREW DORMADY	LARRY R GEIST	PO BOX 100415	DENVER	CO	80250
07.01.02600	FOTINI FRAN WESTROM		1139 CORDULA CIR	NAPERVILLE	IL	60564
07.01.02920	GALEN O & CHRISTINE E BERANEK		28753 160TH ST	LAMBERTON	MN	56152
07.01.02800	JOSEPH P DEMPSEY	JULIE A DEMPSEY	231 PARK AVE	GRAND FORKS	ND	58203
07.01.02500	LORI L HILMER		32326 WOLF LAKE RD	CASS LAKE	MN	56633
07.01.03000	RAYMOND L O'DONNELL		5904 RED OAK TRL	MCFARLAND	TX	53558
07.01.02200	RYAN J & ROBIN L WALL		772 ASHLEY LN NE	THOMPSON	ND	58278
07.01.02700	SFBWL TRUST	JAMES SOULIDES TTE	10526 W CERMAK RD SUITE 101	WESTCHESTER	IL	60154

Staff Report
Hubbard County Planning Commission/Board of Adjustment
Monday, October 24, 2022 Hearing/Meeting

Variance Application 30-V-22 by Lori Hilmer: Part of Gov't Lots 9 & 10, Section 1, Township 145, Range 32, Farden Township between Wolf Lake, a recreational development lake and Mud Lake, a natural environment lake. Parcels 07.01.02300 and 07.01.02910. Applicant is requesting the following after-the-fact variances - Part 1: Sections 502.2, 701, 901, and 904.6 of the Shoreland Management Ordinance (SMO) for two platforms placed within the 100' ordinary high water (OHW) mark setback from Wolf Lake that constitute an expansion of a nonconforming use and nonconforming impervious surface area and placement of non-vegetated ground cover in the shore impact zone, Part 2: Sections 502.1, 701, and 1012 of the SMO to expand a nonconforming use by adding four RV sites located within the 150' OHW mark setback of Mud Lake that increase the dwelling unit density nonconformity, Part 3: Sections 701, 904.6, and 1012 of the SMO to request an amendment of Variance 99-27 to allow the second story of a detached garage to be used as a dwelling unit with an attached deck that constitutes an expansion of a nonconforming use that increases the dwelling unit density nonconformity and an expansion of the nonconforming impervious surface area.

Enclosed Document(s):

- 30-V-22 application
- 2020 aerial imagery w/2’ elevation contours
- 05/26/2021 staff site visit sketch and photos
- 04/29/2022 notice of violation letter and photos
- Mississippi Headwaters Board Comprehensive Plan
- 09/28/2022 dwelling unit density calculation

There are three parts to this application – all of which are after-the-fact (ATF) that were brought to the Env. Services Department’s attention in a complaint. See the attached May 26, 2021 site visit sketch and photos and April 29, 2022 notice of violation letter for pertinent background information.

The resort use of the property is a legal nonconformity because it predates the Ordinance and has never sought or been granted a conditional use permit. The property lies in the Mississippi Headwaters Board’s (MHB) Comprehensive Plan jurisdiction so any variance approval(s) will also require certification from the MHB. A copy of the MHB Comprehensive Plan is included in the meeting packet. The property use and improvements on it must comply with both the Shoreland Management Ordinance and the MHB Comprehensive Plan. The property abuts Wolf Lake on the north (RD class) and Mud Lake on the south (NE class). The lot is roughly 185’ deep along the west lot line and ~305’ deep along the east lot line so with a 100’ OHW setback on Wolf and a 150’ OHW setback on Mud along with a 20’ setback from Wolf Lake Road (township road), there isn’t much space on the property that meets setbacks.

The applicant has owned the property for 22+ years, and during this time has gone through the variance process twice, and obtained eight land use permits. Staff points this out so the Board knows that the applicant is very aware of the SMO and MHB requirements.

Part 1 is an ATF request to allow two concrete platforms, 16’ diameter (200.96 sq. ft.) and 19’ diameter (283.4 sq. ft.) to remain at 15’ and 20’ OHW setbacks from Wolf Lake respectively.

Part 2 is an ATF request to add four RV sites to the dwelling unit density that is already well over the allowed density. The allowed dwelling unit density for the property is two dwelling units. Ten dwelling units legally exist as part of the nonconforming resort use. Five additional dwelling units (i.e. the dwelling above the detached garage and four RV sites) are requested which would cause the dwelling unit density to be fifteen units. This fifteen unit density would be thirteen units over the allowed two unit density.

None of the requested RV sites meet the 150' OHW setback from Mud Lake. Additionally, Site # 4 does not meet the 100' OHW setback from Wolf Lake.

RV site # 4 is not plumbed into the septic system, but is requested to be able to be connected to the proposed new septic system for which a design is included in the application. Sites # 1, 2, and 3 are plumbed into the existing system and are requested to be able to be connected to the proposed new septic system.

The garage that is the subject of Part 3 of the application was allowed to have a 20' westerly addition added per Variance 99-27. The structure was then and is supposed to be now strictly a detached garage. The 2nd story has been converted into a dwelling without zoning approval and a second story deck on the Wolf Lake side of the structure was constructed without zoning approval. The ATF request is to be able to let the dwelling unit and deck remain. The deck meets the 100' OHW setback from Wolf Lake. The structure is roughly 75' from the OHW of Mud Lake. The deck railing is unsafe as there are large spaces lacking railings where a child or even adult could fall through.

The SSTS on the property is compliant and was allowed to be installed at less than the 150' setback from Mud Lake per Variance 91-46. On December 8, 2006, staff responded to a complaint of sewage being pumped from this system onto the ground. Significant sewage volume was documented overflowing the road ditch and flowing down the road surface to Mud Lake along with a sump pump, electrical cord, and hose access to the septic tank being noted as well. The Department has not been made aware of any subsequent similar occurrences. The SSTS is significantly undersized for the requested dwelling unit density increase so the application includes a new design showing how the system can be upgraded to proper sizing. The design states that the proposed additional mound drainfield area will not meet the 150' OHW setback from Wolf Lake. The Env. Services Dept. can administratively allow a lesser OHW setback from Wolf (no less than 75') when a property lacks sufficient depth or usable area. The entire property is shallow enough in a north-south direction that the 150' OHW setbacks from Wolf and Mud Lakes overlap. The property is very limited in terms of where a drainfield can be placed due to setbacks as well as usable area that has not been disturbed or is not already covered by improvements such as structure and driveways.

Using GIS, staff calculated the impervious surface area percentage on the property excluding the two platforms, deck on the garage, and RV sites as being 28.3%. The property is 121,270 sq. ft. in size per the tax parcel map. The 25% threshold is 30,317.8 sq. ft. With the platforms and garage deck factored in, the impervious surface area percentage increases to roughly 29.1%. If the RVs are added, the percentage would increase a bit more. Thus, while not requested in the application, the three requested items will also require a variance from Section 904.6 of the SMO to further increase the property's nonconformance with the 25% impervious surface area threshold.

The department and MN DNR Area Hydrologist are not supportive of any of the application's three parts. The square footage of the platforms in Part 1 greatly exceeds the 150 sq. ft. allowed in Section 601 of the SMO and neither meets the 20' minimum OHW setback. Also, Section 601 only applies to residential properties, not resorts. The Part 2 and 3 requests would cause the already extremely overdense dwelling unit density to become even more so and there doesn't seem to be any difficulty other than economics cited in the application for them. As a reminder, any part(s) of the application that are approved also require MHB certification. Without certification, a variance is not fully approved.

Below are the findings of fact questions for your consideration:

1. Is the variance in harmony with the general purposes and intent of the official controls?

Yes ( ) No (X)

Why or why not? The two platforms total 484 sq. ft. of impervious surface area within the shore impact zone without any mitigation measures when there is room on the property for them to be moved to a greater OHW setback. The property also currently exceeds the 25% of lot area impervious surface area threshold. The two platforms increase this nonconformity. The property is large enough to only have two dwelling units on it. There currently are ten dwelling units and five more dwelling units are requested with two of them not meeting all required OHW setbacks. Increasing the nonconforming dwelling unit density by this amount is contrary to the ordinance's intent.

2. Is the property owner proposing to use the property in a reasonable manner not permitted by an official control?

Yes ( ) No (X)

Why or why not? Having two concrete platforms within 20' of the OHW of Mud Lake that compound the property's impervious surface area percentage noncompliance and have no mitigating measures to offset their impervious surface when there is room to move the platforms further from the lake is not a reasonable proposal. The property is already 500% over the allowed dwelling unit density and the request is to further increase the density noncompliance so it would be 700% over the allowed dwelling unit density and require OHW setback variances for two of the units is also not a reasonable proposed use of the property.

3. Is the need for a variance due to circumstances unique to the property and not created by the current or prior property owners?

Yes ( ) No (X)

Why or why not? The property is sandwiched between a recreational development lake and a natural environment lake and is only 187' deep between the lakes on the west property line and roughly 285' deep between the lakes on the east property line so there isn't much available room that meets all setbacks. The property is also ~2.8 ac. in size and Wolf Lake Road, a township road, runs along the south side of the property which takes up a fair amount of area and contributes quite a bit toward the impervious surface area. However, there is room to move the two platforms further away from Wolf Lake than where they were placed and the property is simply not large enough for the additional requested five dwelling units. The current landowner is trying to squeeze more improvements onto the property than what it is sized to be able to handle and the additional dwelling units are needed for the resort's economic vitality and are thus driven by the desired use of the property and not circumstances unique to the property.

4. Will the issuance of the variance maintain the essential character of the locality?

Yes ( ) No (X)

Why or why not? This resort property has seasonal residential properties on both its west and east sides. There is no vegetative screening of the two platforms so they are very visible from the lake. The requested RV and dwelling unit above the garage would add five dwelling units to the existing ten dwelling units when the property is only large enough to have two dwelling units on it. With the Township road that runs along the south side of the property, all the requested RV sites and the additional second story dwelling above the garage are very visible from the road.

5. Does the stated practical difficulty involve more than just economic considerations?

Yes (X) No ( )

Why or why not? Economics are cited in the application as a practical difficulty, but the property also is shallow enough in a north-south direction that the OHW setbacks from the two lakes that it fronts overlap on much of the property and greatly reduce the available area on the rest of the property.

Add On for an After-The-Fact Variance

If the Board of Adjustment answers yes to all 5 questions for a variance in the first instance, thereby finding that all of the criteria set forth in Section 1103, Item 1, parts 1 through 5, are met, then the following additional criteria may be considered and weighed by the Board of Adjustment in determining whether to grant or deny a request for the after-the-fact variance:

1. Why did the applicant fail to obtain the required permit or comply with the applicable official control before commencing work? Was there any attempt to comply with the applicable official controls?

   Yes ( ) No ( )

   Why or why not?

2. Did the applicant make a substantial investment in the property before learning of the failure to comply with the applicable official controls?

   Yes ( ) No ( )

   Why or why not?

3. Did the applicant complete the work before being informed of the violation of applicable official controls?

   Yes ( ) No ( )

   Why or why not?

4. Are there structures, circumstances, or conditions in the area similar to those that are the subject of the variance request?

   Yes ( ) No ( )

   Why or why not?

5. Based on all of the facts, does it appear to the Board of Adjustment that the applicant acted in good faith?

   Yes ( ) No ( )

   Why or why not?

6. Would the benefit to the county appear to be outweighed by the detriment the applicant would suffer if forced to remove the structure?

   Yes ( ) No ( )

   Why or why not?

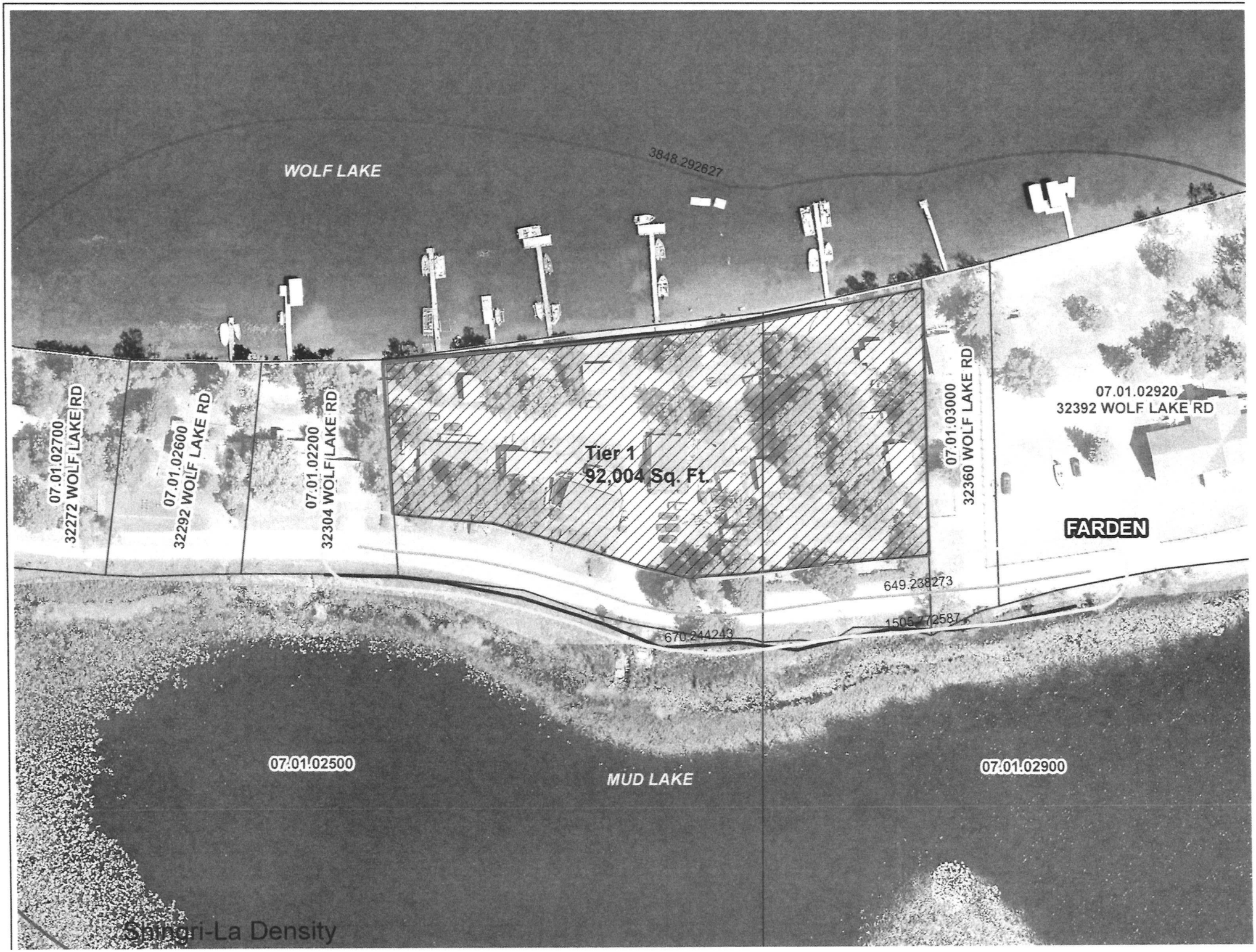
Updated Dwelling unit density calculation for Variance 30-U-22 proposal

Shingri-La Resort - Density
Parcel 07.01.02300 and 07.01.02910

	Unit	Square Footage
Cabins	1	360
	2	717
	3	520
	4a	866
	4b	610
	5	520
	6	520
	7	540
	8	1512
	10	1255
Tier 1 Average Sq Ft.		742
Tier 1 Approx.Suitable Area		92,004
Suitable Area * Floor Area Ratio		1,780
1780/Average Living Area size		2.64
Tier 1 Units Allowed		2

Proposed
4 RV Sites @ 400 Ft²/ea 1600 Ft²
+ house above garage 22' x 42' 924
7420/14 = 530 Ft² avg
8344/15 = 556.3 Ft² avg 2.92
92,004 x .01768 = 1626.6 / 556.3 = 2.92
= 2 units allowed
Proposal results in 13 units over density

Note: As property lies in RD & NE lake classifications, the most restrictive (NE) class density formula floor area ratio must be used.


WOLF LAKE
3848.292627
07.01.02700
32272 WOLF LAKE RD
07.01.02600
32292 WOLF LAKE RD
07.01.02200
32304 WOLF LAKE RD
Tier 1
92,004 Sq. Ft.
07.01.03000
32360 WOLF LAKE RD
07.01.02920
32392 WOLF LAKE RD
FARDEN
649.238273
1505.772587
670.244243
07.01.02500
MUD LAKE
07.01.02900
Shinori-La Density

Staff Report
Hubbard County Planning Commission/Board of Adjustment
Monday, December 19, 2022 Hearing/Meeting

BOARD OF ADJUSTMENT:

OLD BUSINESS

Variance Application 30-V-22 by Lori Hilmer: Part of Gov't Lots 9 & 10, Section 1, Township 145, Range 32, Farden Township between Wolf Lake, a recreational development lake and Mud Lake, a natural environment lake. Parcels 07.01.02300 and 07.01.02910. Applicant is requesting the following after-the-fact variances - Part 1: Sections 502.2, 701, and 901 of the Shoreland Management Ordinance (SMO) for two platforms placed within the 100' ordinary high water (OHW) mark setback from Wolf Lake that constitute an expansion of a nonconforming use and placement of non-vegetated ground cover in the shore impact zone, Part 2: Sections 502.1, 701, and 1012 of the SMO to expand a nonconforming use by adding four RV sites located within the 150' OHW mark setback of Mud Lake that increase the dwelling unit density nonconformity, and Part 3: Sections 701 and 1012 of the SMO to request an amendment of Variance 99-27 to allow the second story of the garage to be used as a dwelling unit with an attached deck that constitutes an expansion of a nonconforming use that increases the dwelling unit density nonconformity.

Enclosed Document(s):

Provided previously in October 2022 PC/BOA meeting packet:

- 30-V-22 application
- 30-V-22 application MS 15.99 indefinite time extension form
- 2020 aerial imagery w/2' elevation contours
- 05/26/2021 staff site visit sketch and photos
- 04/29/2022 notice of violation letter and photos
- Mississippi Headwaters Board Comprehensive Plan
- 09/28/2022 dwelling unit density calculation

This application was initially placed on the October 2022 Board of Adjustment meeting agenda. Shortly before the meeting, the applicant notified staff that she had a personal health issue arise requiring appointments that conflicted with the October lot viewal and meeting dates. So the applicant signed an indefinite time extension form granting the County as much time as needed to review/act on the application. The applicant also asked that the application be placed on the December meeting agenda. Thus, at the October meeting, the application was tabled for placement on the December meeting agenda. As the Board viewed the property during the scheduled October lot viewal and current snow cover does not allow accurate viewing of impervious surface areas on the property (which is a component of the application), no follow-up lot viewal is scheduled for December.

Below in gray text is the October staff report comments prepared for this application.

There are three parts to this application – all of which are after-the-fact (ATF) that were brought to the Env. Services Department's attention in a complaint. See the attached May 26, 2021 site visit sketch and photos and April 29, 2022 notice of violation letter for pertinent background information.

The resort use of the property is a legal nonconformity because it predates the Ordinance and has never sought or been granted a conditional use permit. The property lies in the Mississippi Headwaters Board's (MHB) Comprehensive Plan jurisdiction so any variance approval(s) will also require certification from the MHB. A copy of the MHB Comprehensive Plan is included in the meeting packet. The property use and improvements on it must comply with both the Shoreland Management Ordinance and the MHB Comprehensive Plan. The property abuts Wolf Lake on the north (RD class) and Mud Lake on the south (NE class). The lot is roughly 185' deep along the west lot line and ~305' deep along the east lot line so with a 100' OHW setback on Wolf and a 150' OHW setback on Mud along with a 20' setback from Wolf Lake Road (township road), there isn't much space on the property that meets setbacks.

The applicant has owned the property for 22+ years, and during this time has gone through the variance process twice, and obtained eight land use permits. Staff points this out so the Board knows that the applicant is very aware of the SMO and MHB requirements.

Part 1 is an ATF request to allow two concrete platforms, 16' diameter (200.96 sq. ft.) and 19' diameter (283.4 sq. ft.) to remain at 15' and 20' OHW setbacks from Wolf Lake respectively.

Part 2 is an ATF request to add four RV sites to the dwelling unit density that is already well over the allowed density. The allowed dwelling unit density for the property is two dwelling units. Ten dwelling units legally exist as part of the nonconforming resort use. Five additional dwelling units (i.e. the dwelling above the detached garage and four RV sites) are requested which would cause the dwelling unit density to be fifteen units. This fifteen unit density would be thirteen units over the allowed two unit density.

None of the requested RV sites meet the 150' OHW setback from Mud Lake. Additionally, Site # 4 does not meet the 100' OHW setback from Wolf Lake.

RV site # 4 is not plumbed into the septic system, but is requested to be able to be connected to the proposed new septic system for which a design is included in the application. Sites # 1, 2, and 3 are plumbed into the existing system and are requested to be able to be connected to the proposed new septic system.

The garage that is the subject of Part 3 of the application was allowed to have a 20' westerly addition added per Variance 99-27. The structure was then and is supposed to be now strictly a detached garage. The 2nd story has been converted into a dwelling without zoning approval and a second story deck on the Wolf Lake side of the structure was constructed without zoning approval. The ATF request is to be able to let the dwelling unit and deck remain. The deck meets the 100' OHW setback from Wolf Lake. The structure is roughly 75' from the OHW of Mud Lake. The deck railing is unsafe as there are large spaces lacking railings where a child or even adult could fall through.

The SSTS on the property is compliant and was allowed to be installed at less than the 150' setback from Mud Lake per Variance 91-46. On December 8, 2006, staff responded to a complaint of sewage being pumped from this system onto the ground. Significant sewage volume was documented overflowing the road ditch and flowing down the road surface to Mud Lake along with a sump pump, electrical cord, and hose access to the septic tank being noted as well. The Department has not been made aware of any subsequent similar occurrences. The SSTS is significantly undersized for the requested dwelling unit density increase so the application includes a new design showing how the system can be upgraded to proper sizing. The design states that the proposed additional mound drainfield area will not meet the 150' OHW setback from Wolf Lake. The Env. Services Dept. can administratively allow a lesser OHW setback from Wolf (no less than 75') when a property lacks sufficient depth or usable area. The entire property is shallow enough in a north-south direction that the 150' OHW setbacks from Wolf and Mud Lakes overlap. The property is very limited in terms of where a drainfield can be placed due to setbacks as well as usable area that has not been disturbed or is not already covered by improvements such as structure and driveways.

Using GIS, staff calculated the impervious surface area percentage on the property excluding the two platforms, deck on the garage, and RV sites as being 28.3%. The property is 121,270 sq. ft. in size per the tax parcel map. The 25% threshold is 30,317.8 sq. ft. With the platforms and garage deck factored in, the impervious surface area percentage increases to roughly 29.1%. If the RVs are added, the percentage would increase a bit more. Thus, while not requested in the application, the three requested items will also require a variance from Section 904.6 of the SMO to further increase the property's nonconformance with the 25% impervious surface area threshold.

The department and MN DNR Area Hydrologist are not supportive of any of the application's three parts. The square footage of the platforms in Part 1 greatly exceeds the 150 sq. ft. allowed in Section 601 of the SMO and neither meets the 20' minimum OHW setback. Also, Section 601 only applies to residential properties, not resorts. The Part 2 and 3 requests would cause the already extremely overdense dwelling unit density to become even more so and there doesn't seem to be any difficulty other than economics cited in the application for them. As a reminder, any part(s) of the application that are approved also require MHB certification. Without certification, a variance is not fully approved.

Below are the findings of fact questions for your consideration:

1. Is the variance in harmony with the general purposes and intent of the official controls?

   Yes ( ) No (X)

   Why or why not? The two platforms total 484 sq. ft. of impervious surface area within the shore impact zone without any mitigation measures when there is room on the property for them to be moved to a greater OHW setback. The property also currently exceeds the 25% of lot area impervious surface area threshold. The two platforms increase this nonconformity. The property is large enough to only have two dwelling units on it. There currently are ten dwelling units and five more dwelling units are requested with two of them not meeting all required OHW setbacks. Increasing the nonconforming dwelling unit density by this amount is contrary to the ordinance's intent.

2. Is the property owner proposing to use the property in a reasonable manner not permitted by an official control?

   Yes ( ) No (X)

   Why or why not? Having two concrete platforms within 20' of the OHW of Mud Lake that compound the property's impervious surface area percentage noncompliance and have no mitigating measures to offset their impervious surface when there is room to move the platforms further from the lake is not a reasonable proposal. The property is already 500% over the allowed dwelling unit density and the request is to further increase the density noncompliance so it would be 700% over the allowed dwelling unit density and require OHW setback variances for two of the units is also not a reasonable proposed use of the property.

3. Is the need for a variance due to circumstances unique to the property and not created by the current or prior property owners?

   Yes ( ) No (X)

   Why or why not? The property is sandwiched between a recreational development lake and a natural environment lake and is only 187' deep between the lakes on the west property line and roughly 285' deep between the lakes on the east property line so there isn't much available room that meets all setbacks. The property is also ~2.8 ac. in size and Wolf Lake Road, a township road, runs along the south side of the property which takes up a fair amount of area and contributes quite a bit toward the impervious surface area. However, there is room to move the two platforms further away from Wolf Lake than where they were placed and the property is simply not large enough for the additional requested five dwelling units. The current landowner is trying to squeeze more improvements onto the property than what it is sized to be able to handle and the additional dwelling units are needed for the resort's economic vitality and are thus driven by the desired use of the property and not circumstances unique to the property.

4. Will the issuance of the variance maintain the essential character of the locality?

Yes ( ) No (X)

Why or why not? This resort property has seasonal residential properties on both its west and east sides. There is no vegetative screening of the two platforms so they are very visible from the lake. The requested RV and dwelling unit above the garage would add five dwelling units to the existing ten dwelling units when the property is only large enough to have two dwelling units on it. With the Township road that runs along the south side of the property, all the requested RV sites and the additional second story dwelling above the garage are very visible from the road.

5. Does the stated practical difficulty involve more than just economic considerations?

Yes (X) No ( )

Why or why not? Economics are cited in the application as a practical difficulty, but the property also is shallow enough in a north-south direction that the OHW setbacks from the two lakes that it fronts overlap on much of the property and greatly reduce the available area on the rest of the property.

Add On for an After-The-Fact Variance

If the Board of Adjustment answers yes to all 5 questions for a variance in the first instance, thereby finding that all of the criteria set forth in Section 1103, Item 1, parts 1 through 5, are met, then the following additional criteria may be considered and weighed by the Board of Adjustment in determining whether to grant or deny a request for the after-the-fact variance:

1. Why did the applicant fail to obtain the required permit or comply with the applicable official control before commencing work? Was there any attempt to comply with the applicable official controls?

Yes ( ) No ( )

Why or why not?

2. Did the applicant make a substantial investment in the property before learning of the failure to comply with the applicable official controls?

Yes ( ) No ( )

Why or why not?

3. Did the applicant complete the work before being informed of the violation of applicable official controls?

Yes ( ) No ( )

Why or why not?

4. Are there structures, circumstances, or conditions in the area similar to those that are the subject of the variance request?

Yes ( ) No ( )

Why or why not?

5. Based on all of the facts, does it appear to the Board of Adjustment that the applicant acted in good faith?

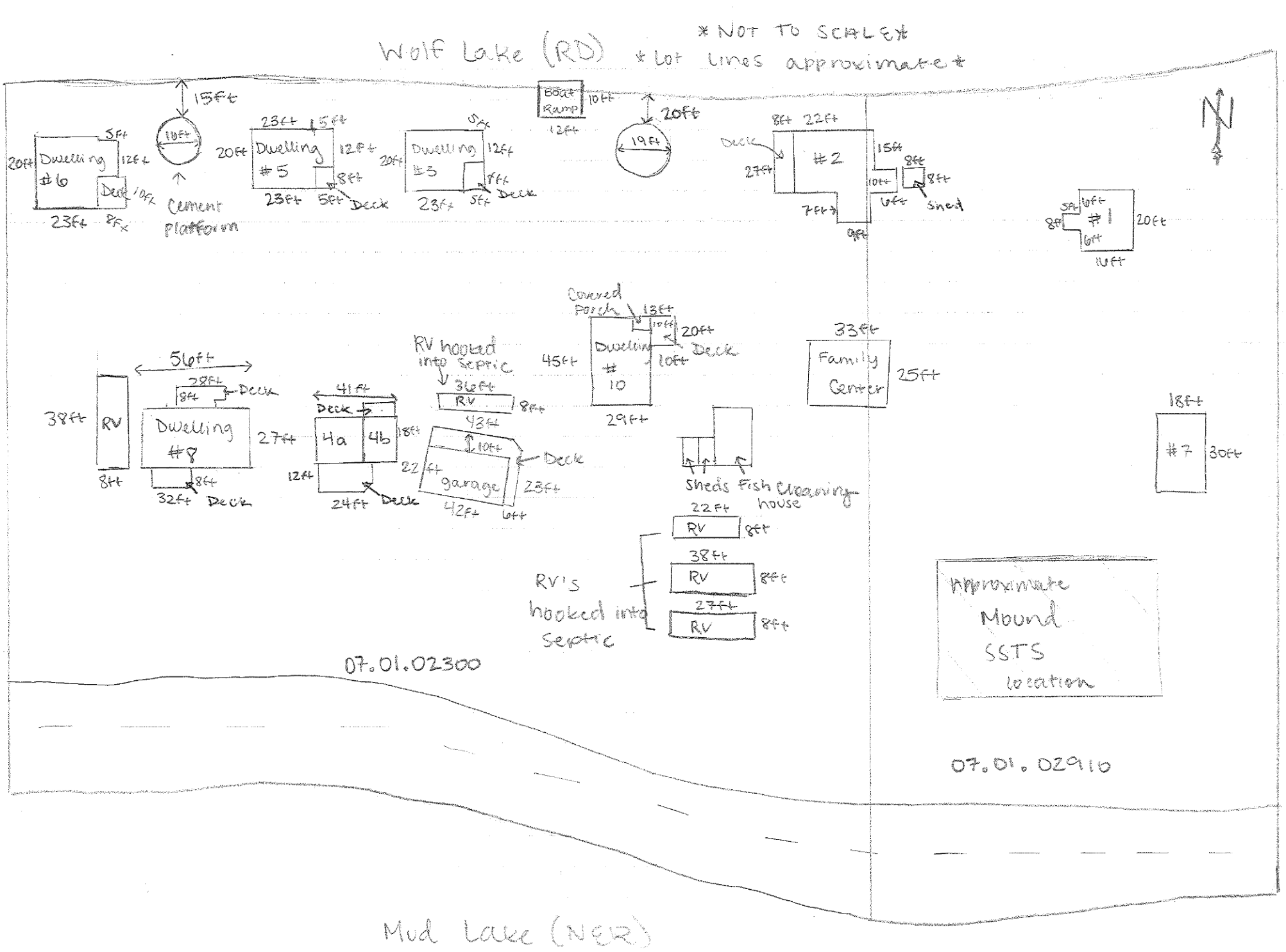
Yes ( ) No ( )

Why or why not?

6. Would the benefit to the county appear to be outweighed by the detriment the applicant would suffer if forced to remove the structure?

Yes ( ) No ( )

Why or why not?


Wolf Lake (RD)
Not to scale
Lot lines approximate
15ft
10ft
Cement platform
Dwelling #6
5ft
12ft
20ft
23ft
8ft
Deck
10ft
Dwelling #5
23ft
5ft
12ft
20ft
8ft
Deck
Dwelling #3
5ft
12ft
20ft
7ft
Deck
Boat Ramp
10ft
12ft
20ft
19ft
Deck
8ft
22ft
#2
15ft
27ft
10ft
8ft
6ft
7ft
9ft
Shed
5ft
6ft
8ft
#1
6ft
20ft
11ft
Covered Porch
13ft
10ft
20ft
Dwelling #10
10ft
Deck
45ft
29ft
33ft
Family Center
25ft
RV hooked into Septic
36ft
RV
8ft
43ft
10ft
Deck
Garage
22ft
23ft
42ft
6ft
56ft
28ft
8ft
Deck
RV
38ft
8ft
Dwelling #8
27ft
8ft
32ft
Deck
41ft
Deck
4a
4b
18ft
12ft
24ft
Deck
Sheds
Fish Cleaning house
RV's hooked into Septic
22ft
RV
8ft
38ft
RV
8ft
27ft
RV
8ft
#7
18ft
30ft
Approximate Mound SSTS location
07.01.02300
07.01.02910
Mud Lake (NER)


OFFICE
CLOSED
05/26/2021 12:07


OFFICE
Splendor GRO TOPSOIL
05/26/2021 12:07


05/26/2021 11:56


Roadmaster
Dutch
05/26/2021 11:55


Dutch Star
01806
05/26/2021 11:55


FORESTER
BY FOREST RIVER
Dutch St
1BJ 395
05/26/2021 11:54


Dutch Star
01806
05/26/2021 11:49


Dutch Star
05/26/2021 11:49


Dutch Star
FORESTER
05/26/2021 11:49


05/26/2021 11:48


PEPSI
Coca-Cola
Coke
05/26/2021 11:48
RV 96892
NOBLE RV


PEPSI
05/26/2021 11:48


FUN FINDER XTRA
05/26/2021 11:47


05/26/2021 11:47


05/26/2021 11:44


05/26/2021 11:44


210
MOOSE
05/26/2021 11:43


210
MOOSE
05/26/2021 11:43


21
DEER
05/26/2021 11:29

2

2

HUMMINGBIRD

05/26/2021 11:26


2
05/26/2021 11:25


SHANGRI-LA
05/26/2021 11:25


05/26/2021 11:25


LUND
05/26/2021 11:25


2
12
05/26/2021 11:19


2
05/26/2021 11:19


13
DUCK
05/26/2021 11:18


05/26/2021 11:18


24
05/26/2021 11:17


05/26/2021 11:17


Sanibel
05/26/2021 11:17


05/26/2021 11:16


1.5
BEAR
05/26/2021 11:16


26
WOLF
05/26/2021 11:05


6
WOLF
05/26/2021 11:05


Sanibel
05/26/2021 10:59

Variance Application 30-V-22 by Lori Hilmer DBA Shangri-La Resort:
2020 Aerial Imagery w/Elevation Contours Overlain

Variance Application 30-V-22 by Lori Hilmer DBA Shangri-La Resort: 2020 Aerial Imagery w/Elevation Contours Overlain

Demey DeJong

From: Demey DeJong
Sent: Tuesday, July 05, 2022 2:22 PM
To: Shangri-La Resort
Subject: RE: Shangri-La Resort- Lori Lynn

Hello Lori,

I attempted to contact you last week but your voicemail was full. An extension can be granted until September 30, 2022. I will place this email with the letter.

Please let me know if you have questions.

Thanks,
Demey

Demey DeJong
Environmental Specialist
301 Court Avenue
Park Rapids, MN 56470
(218)732-3890
www.co.hubbard.mn.us

From: Shangri-La Resort <shangrilaresort@gmail.com>
Sent: Thursday, June 30, 2022 4:19 PM
To: Demey DeJong <demey.dejong@co.hubbard.mn.us>
Subject: Shangri-La Resort- Lori Lynn

Hi Demey!
Hope you had a fun-filled relaxing weekend:)
During your on-site inspection last year in May of 2021 you stated an email would be sent of any concerns. I'd check monthly and saw none so thought we were good to go:)

Your letter dated April 29, 2022 was delivered in a magazine in June and read June 23. I'm kindly requesting an extention of time to complete after-variance process being it's now primary resort business busy season. Please call to assist me with this seemingly overwhelming process. I had no idea all these ordinances existed. I'm not here to break any rules so will do what needs to be done to make it right and complete after-the-fact variance. I will need lots of help.
Thank you so kindly,
Lori Lynn Hilmer
218.209.6332
shangrilaresort@gmail.com

HUBBARD COUNTY
EST. 1883 MINNESOTA

Environmental Services

301 Court Avenue, Park Rapids, MN 56470
Phone: 218.732.3890
www.co.hubbard.mn.us/departments/environmental_services/index.php

April 29, 2022

Lori Hilmer
32326 Wolf Lake Rd.
Cass Lakes, MN 56633

Re: Parcels 07.01.02300 and 07.01.02910 – Shoreland Management Ordinance violations

Dear Ms. Hilmer,

On May 26, 2021, a site inspection was conducted by Hubbard County Environmental Services personnel on your Wolf Lake property located at 32326 Wolf Lake Road, Cass Lake (Parcels 07.01.02300 and 07.01.02910). During this inspection, violations of the Shoreland Management Ordinance (SMO) were observed on the property. Listed below are detailed descriptions of said violations and the section(s) of the SMO with which each violation does not comply:

1. Two platforms (16' and 19' in diameter) were built within the 100' ordinary high water (OHW) mark setback without the required prior variance approval and subsequent land use permits. (See enclosed pictures)

Section 502.2 of the SMO requires a 100' OHW setback for all structures (including platforms) on a recreational development lake.

Section 701.A of the SMO does not allow a nonconforming use to be expanded, enlarged, or altered, including any increase in volume intensity, or frequency of use of the property where a nonconforming use exists. The resort use of this property is a legal nonconforming use because it predates the SMO.

Section 901.2 of the SMO requires a ground layer and understory of native vegetation be preserved, maintained or established in the shore impact zone, including where the platforms are located.

Section 1104 of the SMO requires a land use permit before you can construct, alter, move, or change a structure such as a platform.

2. Five recreational vehicles (RV) were placed on the property without the required prior variance approval to exceed the allowed dwelling unit density on the property. These RVs also donot meet the required 150' OHW structure setback from Mud Lake. (See enclosed pictures)

Section 502.1 of the SMO requires a 150' OHW setback for all structures (including RVs) on a natural environment lake such as Mud Lake.

Section 701.A of the SMO does not allow a nonconforming use to be expanded, enlarged, or altered, including any increase in volume intensity, or frequency of use of the property where a nonconforming use exists.

Section 1012 of the SMO outlines the criteria and equations to find allowed dwelling unit densities of commercial use properties. Using the equations provided, your property is allowed two dwelling units. Although there are more than two units existing on the property, due to the resort use being a legal nonconformity, you are not allowed to add any additional dwelling space beyond what was existing prior to 1971 or allowed by variance.

HUBBARD COUNTY
EST. 1883 MINNESOTA

Environmental Services

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3. The dwelling and deck above the garage built by land use permit #17304 only allowed for a garage addition, not living quarters. The structural addition exceeds allowable dwelling unit density for the property and was constructed without the required prior variance approval. (See enclosed pictures)

Section 701.A of the SMO does not allow a nonconforming use to be expanded, enlarged, or altered, including any increase in volume intensity, or frequency of use of the property where a nonconforming use exists.

Section 1012 of the SMO outlines the allowed dwelling unit density. Using the equations provided, your property is allowed two dwelling units. Although there are more than two units onsite, due to the resort use being a legal nonconformity, you are not allowed to add any additional dwelling space beyond what was existing prior to 1971 or allowed by variance.

Section 1104 of the SMO requires a land use permit before you can construct, alter, move, or change the use of a structure such as this structure.

Variance 99-27 allowed for a 20' addition to the garage for additional storage. This variance did not allow for a second story with dwelling space or a deck on the structure.

For the reasons stated above the, the structural additions to the property are in violation of the SMO.

In order to bring these violations into compliance with the SMO, you must complete one of the following corrective options for each violation by **August 1, 2022.**

Corrective options for platforms within the shore impact zone of Wolf Lake:

1. Apply for an after-the-fact (ATF) variance to allow the additional platforms to remain in their current locations. If the variance is approved, you must the obtain an ATF land use permit for each platform. Should the variance application be denied, you must complete option #2 below. (Please note that any variance application, if approved, also requires certification by the Mississippi Headwaters Board.)
2. Remove the platforms from the property and re-establish a dense ground layer of vegetative cover in place of the platforms.

Corrective options for the RVs on site:

1. Apply for an ATF variance to allow for the additional dwelling units on site, exceeding density, and being within the structure setback.
2. Remove the RVs from the property and re-establish a dense ground layer of vegetative cover in place of the RVs.

Corrective options for the dwelling space and deck above garage:

1. Apply for an ATF variance to allow for the additional dwelling unit (that exceeds the allowed dwelling unit density for the property) and expanding a nonconforming use. Should the variance application be approved, you must obtain an ATF land use permit for the second floor use change to dwelling space and deck. Should the variance application be denied, you must complete option #2 below.
2. Revert the space back to storage only, remove the deck from the structure, and re-establish a dense ground layer of vegetative cover in place of the deck.

HUBBARD COUNTY
EST. 1883 MINNESOTA

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After-the-fact variance applications include a non-refundable fee of $1000. After-the-fact permit application fees for the above items are five times the normal fee amount.

Failure to bring these violations into compliance with the SMO by the deadline provided above will result in these matters being forwarded to the County Attorney's Office for further enforcement action.

Please be aware, no new permits may be issued to a property on which there are any current, outstanding violations per Section 1104 of the SMO.

If you have any questions regarding the content of this letter, please contact me by phone or email.

Best regards,

Demey DeJong

Demey DeJong
Environmental Specialist
Demey.dejong@co.hubbard.mn.us

Enc.

Environmental Services

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Eric Buitenwerf, Env. Services Director • Bryan Haugen, Asst. Env. Services Director • Staci Lee, Admin. Asst.
Aaron Anderson, Env. Specialist • Demey DeJong, Env. Specialist • Jack Bovee, GIS Specialist • Jonathan Mortensen, GIS Specialist

Environmental Services

301 Court Avenue, Park Rapids, MN 56470
Phone: 218.732.3890
www.co.hubbard.mn.us/departments/environmental_services/index.php

SSTS Permits

From: Shangri-La Resort <shangrilaresort@gmail.com>
Sent: Tuesday, October 18, 2022 10:55 AM
To: Aaron Anderson; SSTS Permits
Subject: Fwd: Variance application 30-V-22

Please confirm receipt of this email. Thank you so kindly.

---------- Forwarded message ---------
From: **Shangri-La Resort** <shangrilaresort@gmail.com>
Date: Tue, Oct 18, 2022 at 10:51 AM
Subject: Re: Variance application 30-V-22
To: Aaron Anderson <aaron.anderson@co.hubbard.mn.us>, Lori Lynn <shangrilaresort@gmail.com>

Hi!
Due to out-of-state medical, I will need to postpone our October 24 variance 30-V-22 meeting. I have a return appointment on Nov 22 at 7:30am so would like to reschedule for Monday, December 19th with lot viewing on Dec 15th or 16th.
Attached is signed form to extend process. Thank you,
Lori Lynn
218.209.6332

RECEIVED OCT 18 2022

Applicant request for extension time for County action under Minnesota Statutes Section 15.99

Date: 10 18 22

Re: 30-V-22 Hilmer

The undersigned hereby declares that he/she understands that pursuant to Minnesota Statutes Section 15.99, the County must approve or deny requests relating to zoning within 60 days of the date of a completed application. The undersigned further understands that the County may extend the time limit an additional 60 days. Understanding the foregoing, the undersigned hereby requests an extension of the time limit for Hubbard County to review and act upon the above-stated request per Minnesota Statute 15.99, subd. 3. The undersigned hereby requests that said time limit be extended for as long as necessary for Hubbard County to fully complete its review and act upon the above-stated request.

Signed, Lori Lynn Hilmer

(signature – full legal name)

(signature – full legal name)

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Notice of Hubbard County Board of Adjustment Public Hearing/Meeting for Variance Application 30-V-22

Applicant:	Lori Lynn Hilmer (Shangri-La Resort)
Property Address:	32326 Wolf Lake Road, Cass Lake, MN 56633
Legal Description:	Part of Gov't Lots 9 & 10, Section 1, Township 145, Range 32
Parcel ID #:	07.01.02300 and 07.01.02910
Lot Viewal Date:	Thursday, December 15, 2022 at approximately (x) a.m. ***(Please allow at least ± 30 minutes of scheduled time.)***

Hearing/Meeting Date: Monday, December 19, 2022 at 6:00 p.m.

Place:	Hubbard County Government Center, 3rd Floor Board Room # 324.
Purpose:	Applicant is requesting the following after-the-fact variances - Part 1: Sections 502.2, 701, 901, and 904.6 of the Shoreland Management Ordinance (SMO) for two platforms placed within the 100' ordinary high water (OHW) mark setback from Wolf Lake that constitute an expansion of a nonconforming use and nonconforming impervious surface area and placement of non-vegetated ground cover in the shore impact zone, Part 2: Sections 502.1, 701, and 1012 of the SMO to expand a nonconforming use by adding four RV sites located within the 150' OHW mark setback of Mud Lake that increase the dwelling unit density nonconformity, Part 3: Sections 701, 904.6, and 1012 of the SMO to request an amendment of Variance 99-27 to allow the second story of a detached garage to be used as a dwelling unit with an attached deck that constitutes an expansion of a nonconforming use that increases the dwelling unit density nonconformity and an expansion of the nonconforming impervious surface area.

Above please find a Public Hearing Notice for your information. An effort has been made to notify all the property owners within 500 feet of the premises concerned. To ensure that everyone has been notified, please share this notice with any interested property owners that may have not been notified by mail. Should you have any further questions, please contact the Environmental Services Office at 218-732-3890.

Planning Commission/Board of Adjustment (PC/BOA) hearing/meeting agenda items (i.e. applications and related documents), composition and duties, meeting procedure, and findings of fact may be viewed on the Hubbard County website (www.co.hubbard.mn.us) by clicking on the homepage “Agendas, Summaries & Minutes” link and then on the “Meetings” link on the subsequent webpage that opens.

Written comments/materials on any agenda items must be submitted to Hubbard County Environmental Services, 301 Court Ave., Park Rapids, MN 56470 by 3:30 p.m. on Wednesday, December 14, 2022 and include the submitter’s complete name and address of residence.

Date: October 17, 2022
To: Environmental Services
Hubbard County
Attn: Staci Lee
Staci.lee@co.hubbard.mn.us
301 Court Avenue
Park Rapids, MN 56470

From: Raymond L O'Donnell
18 Kings Mill Circle
Madison, WI 53178

Re: Variance Application 30-V-22, Shangri-La Resort

Dear Hubbard County Environmental Services,

I am writing to you regarding Variance Application 30-V-22, the property at 32326 Wolf Lake Road, Cass Lake, MN 56633 (Shangri-la Resort) and the request for an after-the-fact variance.

Unfortunately, I am unable to attend the October 24, 2022 meeting.

I own property at 32360 Wolf Lake Road. This borders the east side of the applicants' property. While I have only owned this property for one year, I, along with many friends and family have been coming to this resort since 1968. Over this time period we have seen many changes to the resort that improve the quality and experience of the guests that stay there while protecting surface water quality, nearshore habitat and shoreland aesthetics.

That being said, with regards to Part 1 that requests an after the fact variance for two platforms that are within 100' of the ordinary high-water mark. These are concrete pads (more like sidewalks than platforms) around the fire rings at two separate cabin locations. To my recollection, they were installed maybe 8-10 yrs. ago. These were and still are very welcome improvements. Previous to this the area around these fire rings had failing paver bricks or nothing at all that looked horrible, did nothing to control erosion of the shoreline, runoff to the lake or allow natural vegetation to grow. These concrete pads, which in my opinion fit the definition of a sidewalk more than a platform, have corrected the aforementioned issues. There is no runoff to the lake from the fire pits, there is no erosion around these fire rings like in the past and they do a great job in protecting the shoreline and support growth of natural vegetation where they are located. Additionally, they improve shoreline aesthetics. This is an upgrade to the resort that enhances the guest's enjoyment of a campfire while protecting the area around the fire ring. This to me is in lock step with the SMO to protect the shoreland. Removing them would not be in the spirit of the SMO. Remember, this is a vacation resort and foot traffic are higher than normal around these areas than in a similar area at a residence. I am in favor of the variance. Please approve.

With regards to Part 2, adding 4 RV sites. I have no issue with this either. As I understand these are only seasonal, not permanent. They are for 'workcamper' people (a network of full time RVrs that stay at resorts, state parks, etc for free in exchange for services) who provide their own RV and work at the resort during the season. Remember, this is a fishing and family vacation resort. It requires a lot of 'hands on deck 'to prepare from one week of guests to the other during the vacation season. Finding

reliable, trustworthy, quality workers has been a challenge. I believe this to be a great solution that puts high quality and responsible staff on site in a most unobtrusive way to assist the owner with preparation for guests and with improvement of the resorts' aesthetics and functionality. I have not seen where any of these RV's have negatively impacted the spirit of the SMO. You can't see them from the lake, and they are blocked by much vegetation from the road. I don't know they are there. They arrive in May and are gone by end of September. In between time the space is vacant. I see no problem with approving this section of the requested variance. I am in favor.

With regards to Part 3, amend variance 99-27 to allow second story of a detached garage to be used as a dwelling unit with an attached deck. I understand there is a concern that the deck around this garage increases nonconforming impervious surface. However, removing the deck will not change this as the area under the deck from the original building is impervious (concrete for walking, concrete drive approach, etc.). The water from the deck just runs off onto the impervious below before draining away. At most I would recommend some guttering be installed either on the building or the deck or both to direct the rainwater to the adjacent vegetated area of the property and way from the drive. I am in favor of approving this section of the variance and if the owner wants to use the building space as a dwelling vs storage or other, I'm fine with that too.

I understand there is thought to be an issue with the mound system (SSTS). That, based on cabin occupancy, adding the RV sites, and making the garage a dwelling exceeds the flow capacity and square footage area of the septic system and drain field. This is premised on calculations made assuming full occupancy of all cabins and using published values for daily RV use (standards and methodologies that may not be accurate and/or don't accurately reflect reality).
An undersized SSTS directly impacts me as a next-door neighbor of the resort. Rather than rely on calculations and published standards, I would prefer to have actual flow data to the SSTS. I understand the owner is planning to invest in a flow monitoring system that will gather actual real time flow data to be used to evaluate against the original SSTS design. To me this makes good sense (common and - business) to have empirical data during peak and off-peak times to determine what, if anything, needs to be done to the SSTS. Also, these are expensive and it seems unreasonable to ask the owner to spend a lot of money, perhaps needlessly, without good data.
I request the BOA allow the owner to install this monitoring system and use this data to evaluate operating efficiency of the SSTS, and determine what, if any, design changes need to be made.

In addition, I hear a lot of talk and read a lot about density, and expansion of nonconforming impervious surface areas within the OHW of Wolf Lake and Mud Lake. While this year was my first season here at the lake, as I drive up and down the road and cruise the lake in my boat, I see many existing and even a couple new places being built that just don't pass the 'eye' test with regard to these provisions of the SMO. When you observe the resort from the road or the lake, to me it passes this 'eye' test much more than many others. The resort has its cabins nicely spaced and there is much more green space around them than in many others on the same shoreline. Furthermore, these concrete fire rings can't even be seen from the lake or road.

Finally, as a neighbor, I see nothing that is alarming or causing a physical issue with the environment regarding Shangri-la's request for variance. From my viewpoint I believe denying this variance request will definitely cause the owner to experience a practical difficulty that far exceeds any benefit the county or the environment will receive. Please approve the variance as requested.

Thank you for your time and best regards,

Raymond L O'Donnell[L1][L2].

December 19, 2022 Planning Commission/Board of Adjustment Hearing/Meeting Minutes

HUBBARD COUNTY

Planning Commission/Board of Adjustment Meeting Minutes

6:00 p.m. on Monday, December 19, 2022

Chair Mike Kovacovich opened the meeting with the following additional members present: Ken Grob, Veronica Andres, Tim Johnson, and Mark Petersen. Also present was Environmental Services Director Eric Buitenwerf.

Kovacovich started the meeting by reading the procedure by which the meeting of the Planning Commission/Board of Adjustment will be conducted to the audience.

Planning Commission:

Approval of Minutes: None

Old Business: None.

New Business: None.

Board of Adjustment:

Approval of Minutes: November 21, 2022

Grob made a motion to approve the minutes as corrected.

Petersen seconded the motion that carried unanimously 5 – 0.

Old Business:

Variance Application 30-V-22 by Lori Hilmer: Part of Gov't Lots 9 & 10, Section 1, Township 145, Range 32, Farden Township between Wolf Lake, a recreational development lake and Mud Lake, a natural environment lake. Parcels 07.01.02300 and 07.01.02910. Applicant is requesting the following after-the-fact variances - Part 1: Sections 502.2, 701, and 901 of the Shoreland Management Ordinance (SMO) for two platforms placed within the 100' ordinary high water (OHW) mark setback from Wolf Lake that constitute an expansion of a nonconforming use and placement of non-vegetated ground cover in the shore impact zone, Part 2: Sections 502.1, 701, and 1012 of the SMO to expand a nonconforming use by adding four RV sites located within the 150' OHW mark setback of Mud Lake that increase the dwelling unit density nonconformity, and Part 3: Sections 701 and 1012 of the SMO to request an amendment of Variance 99-27 to allow the second story of the garage to be used as a dwelling unit with an attached deck that constitutes an expansion of a nonconforming use that increases the dwelling unit density nonconformity.

Lori Lynn Hilmer, 32326 Wolf Lake Road, Cass Lake, MN, and Colin Hilmer, 4003 Celtic Lane, Fort Collins, Colorado, presented the application.

Lori Lynn Hilmer stated we are here to discuss three after-the-fact variances. The difficulty is the fact that this property is a legal nonconforming use that predates the Shoreland Management Ordinance. The guidelines refer mostly to residential use and not commercial resort use property so everything we do is noncompliant. Shangri-La Resort is the only resort left on Big Wolf Lake. We are passionate about what we do. Our guests leave heartwarming reviews. There is green space and beach space. We have done these improvements out of need and safety, not mere wants. We are here to discuss three after-the-fact variances which are not structures. I didn't know we needed a variance to apply for them. There are two concrete fire rings. There are RV sites which are temporary. I brought in work campers this last year, who helped me work, and they brought their RVs. There is a garage which we transformed into a living space with a deck out front. Everybody else got a permit who built something for me, and he said he did too. I had no reason to check that it had been applied for. The deck is there. It is not complete because I got a notice to stop. It was on the docket to finish with composite materials this summer, but we stopped because we received this notice. Colin is my son and he helps me out. The concrete fire pits stopped erosion from the place next door. You allowed a big mound to be installed at 60'. The water came right my way and ran like a river. We put bushes in, planted shrubs, and we put this concrete fire place between 5 and 6. It has stopped the erosion, but now he has built a bigger house next door. I have researched neighboring variances and they were granted. These three requests seem reasonable compared to recent variances that were granted along our same lakeshore.

Grob asked do you want to take each one of these individually and have the discussion on it, or can we ask questions about everything all at once?

Kovacovich replied let's proceed with asking questions about all parts, and then at the point we are done with discussion we can decide how to move forward.

Grob stated it is my understanding you have had variances, or have had to do permits, in the past. It is curious that you proceeded to do several significant projects without permit. I would have thought that you would have been aware that almost anything you do that close to the lake, that you should at least check with Environmental Services. Do you have a good reason as to why all of these violations were preformed over four or five years when you probably should have known to check with Environmental Services?

Lori Lynn Hilmer answered I had the time to do the research. That was back in 1999 and 2000 that my ex-husband had applied for those variances. My signature is not on them. The first permit that I applied for is when our garage burnt down in 2006. That was a structure. I knew that I needed to get a permit. The foundation was there and we tore the existing building down. The person who did the campfire pit said they would pour concrete. I never thought to get a permit. There is a space there to build a building with a variance at that same site, but it wasn't a structure, so I didn't get a permit. Nobody said anything, and it has been there 7 years. The RVs are temporary. I called the electric company to find out what I needed to do. I went through the permitting process. I didn't think there was anything further that needed to be done for something that was not a building. They are here May 1st and they leave September 30th.

Kovacovich opened for public comment.

Larry O'Donnell, 18 Kings Mill Circle, Madison, WI, stated I am the resident that lives just to the east of Shangri-La Resort. I am in favor of all the variances that she is requesting. I have also been a long-time patron of the resort before I bought the cabin next door. I can say that these improvements that I have seen with the fire rings and with the RV sites have enhanced the guests' enjoyment. As far as the density calculations go, as I walk around the neighborhood and lake, from my perspective, there is a lot more ground covered by some of these other residences than what I see at the resort. There seems to be a lot of open space. The fire rings and the RV sites seem to be in lockstep with the Shoreland Management Ordinance. I don't see any degradation of the shoreline. I don't see any degradation of the vegetation. I see nothing that looks out of the ordinary. It looks good from that perspective. With respect to the density calculations and the size of the drainfield, I understand that is important. I am concerned about that too as a resident there. I would like to see some data collected about the volume capacity of that system. I know that the owner has agreed to install a flow meter to get empirical actual data off of that system so that it can be sized correctly. I would like to see the system sized according to empirical data that is collected from the peak times of the resorts operation. Other than that, I am okay with it.

Kovacovich closed public comment.

A written public comment letter from Raymond L O'Donnell, 18 Kings Mill Circle, Madison, WI, was received prior to the meeting in favor of the application.

Grob stated let me first address the platforms. The written verbiage would appear to imply that prior to the platforms, there was a lot of disruption to the soil and runoff to the lake. It was hard to tell when we were there on lot viewal if that has been corrected by those platforms. Could you assure me that all water that falls on those platforms does, in fact, run off to the driveway and not to the lake?

Lori Lynn Hilmer replied it does. They said that they slanted them towards the driveway. There is a 2" difference from one side to the other. There was nothing there besides bricks. There was no vegetation. It does not run like a river down to the entrance where people would enter the lake.

Colin Hilmer added the reason that I thought it was a good idea is because it actually was running into the lake at first. I thought it would be ideal to not have the cut fire pit in the soil and then having it rain and drain towards the lake. We actually made it level instead of having it run off and then we placed the fire pit. There is grass between the fire pit and the beach. There is no way that any runoff is going to go to the lake.

Lori Lynn Hilmer continued when we didn't have a designated spot, people grabbed rocks and started a fire on the beach. So, if you give people a designated spot to have a fire, they will. Otherwise, the water would rise and it would cover the fire pits from the fires that were started on the beach and wash it right in the lake. The fluctuation on our lake can be up to 18" within two days.

Grob added there is a part of our ordinance, not for resorts, but for residents, that allow platforms, a little bit smaller than these. They have to be 20' back. I think one of yours is and one isn't. In order to have them that close, we usually require a mitigation. In other words, some form of vegetation along on your shoreline. Do you have any area along your shoreline that could be planted with a buffer zone? Maybe about 50' long?

Lori Lynn Hilmer replied we put a rock line along 2/3 of the shoreline to stop erosion. We could add plants in the rocks, but sometimes they get washed out. We have tried it.

Grob continued mitigation would be a vegetated thing.

Lori Lynn Hilmer added on the back half of our resort, the entire roadside on Mud Lake, we have done nothing.

Grob stated that doesn't help Wolf Lake.

Lori Lynn Hilmer said we didn't cut the grass up to the edge, we just leave it natural. That's natural vegetation, there's cattails. How many feet are you requesting?

Grob replied 500 sq. ft.

Lori Lynn Hilmer stated we would seek your advice on where to put it.

Colin Hilmer added there are already are some gardens. We have that rock wall there. There are places where we did plant bushes so people don't jump over the rock wall and instead go in where the beach is. Are you talking about going along that rock wall line?

Grob questioned you basically have sand beach across your whole 407'?

Lori Lynn Hilmer replied some of it is rock, and some is pure sand to grass.

Grob continued there's a rock ledge, and then back behind that is grass or vegetation.

Lori Lynn Hilmer added we've worked really hard to establish that.

Grob asked there's no obvious place where you could put in a buffer zone?

Lori Lynn Hilmer replied on Cabin 6, on the left side.

Colin Hilmer added behind the rock wall there are some places where we could put vegetation, or we have a lot of gardening spots along the lake, and then we just cut up to that.

Lori Lynn Hilmer asked will you tell us what native plants need to go in there? 2/3 of it is rip rap, and this is non-rip rap. There's a board in there that separates.

Grob continued this doesn't have any at all. The grass comes already up to the beach. It seems so nicely cut. Do you cut it that way?

Lori Lynn Hilmer replied we actually pull the grass out of the beach, but it is cut. You're saying to let it grow in front of the cabin?

Petersen asked what do you think about doing something, like a "no-mow" zone, that would mitigate?

Grob added I can't tell what the soil is exactly, but it looks pretty sandy. You're probably not going to get much more grass than that. You'd want to put some kind of little shrubs or something. It's hard to tell what direction the water flows. I do know that to allow platforms like that, we try to do some form of mitigation.

Lori Lynn Hilmer responded in front of the rocks it would be very plausible because people don't step over the rocks. It would protect them there.

Grob explained the intent of the buffer is to prevent stormwater from running into the lake. That's the intent. Your rocks aren't going to do that.

Lori Lynn Hilmer replied on the other far half of that, it's rip rap from the boat launch over up to the new house. We could put them in front of that. Where it is clear beach, it doesn't erode past the beach line. The other half actually started going back into the land nearer to the cabin. It's between Cabins 5, 6, and 3. We could put vegetation in front between the cabin and the rocks. People don't step over the rocks, they go to where the dock is and step out on the dock.

Grob asked what I'm looking at here, what's the cabin closest to it?

Lori Lynn Hilmer answered that's Cabin 1 and 2, in front of Cabin 2. The other half, to the left of the boat launch, is all rip rap. We could add vegetation in there. We do have one or two bushes and they keep getting washed out by the ice. The problem is here ice takes stuff out on this shoreline. It'll push a big sand dune up and then we level it. The other half has rocks. It would be plausible to put vegetation in there. I'm all for plants.

Andres asked you have owned this property for approximately 22 years?

Lori Lynn Hilmer replied yes.

Andres continued you made the comment that your husband has applied for variance applications approximately 9 years ago?

Lori Lynn Hilmer corrected it was about 20 years ago.

Andres stated so you're aware that applications were needed no matter what you did to your legal nonconforming property.

Lori Lynn Hilmer replied he did all construction of buildings.

Andres said okay, but you were aware at that time, back in 1999 or 2000, that permits were necessary.

Lori Lynn Hilmer answered for structures, yes.

Andres corrected for anything. Your property is a nonconforming legal use, so basically anything on your property needs a permit.

Lori Lynn Hilmer stated all we applied for were structures.

Andres commented you made notes about the neighboring properties seeking variances and getting granted a variance.

Lori Lynn Hilmer replied because I educated myself in the last month.

Andres explained but they went the proper route. They went to the Environmental Services Office, they saw that they could not get a permit, so they sought a variance beforehand, not after-the-fact.

Lori Lynn Hilmer stated they both built houses.

Andres said I just wanted to clarify for you so that you understood the process. They went the proper route, asking for the variance ahead of time before they built anything.

Lori Lynn Hilmer added I have a huge punishment for not doing it.

Andres continued we are trying to find ways to help you because you didn't go the right channel. You didn't go to the Environmental Services Office to seek an application. At that time they would have given you guidance that the only way you could do this is by a variance. I just wanted to give you the explanation of what happened here. When did the fire ring platforms get installed?

Lori Lynn Hilmer replied one was 8 years ago and the other 6 years ago. I had it on Facebook. Nobody said you can't do that. You can't see them from the lake because they're level with the ground. They're not visible.

Kovacovich questioned you just talked about variances being applied for 20 years ago, but didn’t you apply for a variance in 2006?

Lori Lynn Hilmer replied no. The garage burnt down and I got a permit. I did not apply for a variance. I just got a building permit to replace it.

Kovacovich asked that permit was to rebuild a garage?

Lori Lynn Hilmer answered correct, a structure that was burnt down.

Kovacovich questioned and now we're here dealing with that as one of the items because there is a dwelling above it and a deck that was not allowed by the permit?

Lori Lynn Hilmer replied correct. The person who built it said they got one.

Kovacovich stated while I appreciate the fact that you say that someone else got the permit, it is the landowner's responsibility to make sure all permits are secured. We're on the same page, you understand that?

Lori Lynn Hilmer answered I do now.

Kovacovich continued at what point after the garage was rebuilt did the second floor get started being used as a dwelling?

Lori Lynn Hilmer replied during Covid.

Kovacovich asked was the deck built at that time, or prior to that?

Colin Hilmer replied it was built right away.

Lori Lynn Hilmer said 2016. I wanted to make it an art studio. It wasn't going to be a place to live, but I wanted my art studio up there. I just haven't had the time to do artwork when you're raising five kids, and then I did foster care, so I just didn't have the time to do my artwork.

Petersen asked in this living space that we're looking at above the garage, what's in there as far as rooms?

Lori Lynn Hilmer replied one bedroom and a sink.

Petersen clarified one bedroom?

Lori Lynn Hilmer stated there is one bedroom on the far side. It's got a lot of furniture. We have a variance to build a house, and I was gifted the furniture that's upstairs.

Grob asked it has water and septic connection?

Lori Lynn Hilmer answered yes. The garage always had a toilet in it.

Petersen asked if we were to allow this to exist as a rental property, how many people do you think you could house in there?

Lori Lynn Hilmer stated we have no intention to have it as a rental. It's specifically for my family. I have five kids, and we never built onto the house.

Petersen clarified five kids and there's one bedroom in there?

Lori Lynn Hilmer yeah, but I have a house there on the property that has two bedrooms.

Petersen stated so one bedroom and one bath is in there?

Lori Lynn Hilmer added and the living room area to just crash. My son came home from the Navy, and just slept on the couch up there.

Petersen continued this was built by a contractor who you thought had pulled a permit?

Lori Lynn Hilmer replied I built the garage. The deck was built by Greg Martinson.

Petersen stated that is the only part. The building itself was built by permit?

Lori Lynn Hilmer said yes. He had to have spoken to somebody down there because I wanted the deck to wrap around, but he said you can't go any closer to Mud Lake.

Petersen asked did you and he settle on this deck as being done?

Lori Lynn Hilmer replied no, he never finished it. Just the bottom half is done. The stringers are strung and there's plywood sitting on top. We were ready to get the composite boards and finish. We have wires that run across the decks to finish it and make it daycare compliant.

Grob asked when this garage was permitted to be built, it was built with two levels?

Lori Lynn Hilmer replied yes.

Grob continued and during Covid is when you finished it off. What was it used for before that?

Lori Lynn Hilmer responded there's just stuff up there for storage, leftover furniture that was meant to go in future cabins.

Grob asked when you finished it off in the last few years, were all the windows and sliding doors in, or were those added to it?

Lori Lynn Hilmer answered they're all used materials.

Grob clarified when that was a storage area, how did you access it? Did you use steps inside the garage?

Lori Lynn Hilmer responded the reason we put the sliding doors in was because the stairs were built so you couldn't turn the corner with the furniture. The patio doors are so that you could store stuff up. We actually had a bobcat lift it up and put it in through the patio doors.

Grob questioned were the patio doors there before you finished it off?

Lori Lynn Hilmer replied yes.

Kovacovich clarified the patio doors were put in when the garage was built?

Lori Lynn Hilmer answered yes.

Grob asked how do you access that second floor?

Lori Lynn Hilmer replied there's a stairwell in the inside.

Petersen added I commented to the Board when I was out there about the deck. The fact that the railings aren't finished represents a safety hazard. The way the deck was framed underneath, where you see that header going across from post to post, I worked in construction when I was in the Twin Cities, and that would have never been allowed to be built that way. I have concerns, and that's why I

was asking about the amount of people. A crowd on that deck could represent a structural danger. If nothing else, you might want to have that looked at by a competent construction professional. It could be dangerous. That gives me pause right there, let alone the railing, as to what we do with it here. It's hard for me to put any kind of a stamp of approval on that. Normally, we don't act on code enforcement here, but when you see something in front of your face that you know is in violation, it's hard for me to say it's okay because it's not. Aside from what we do here, I think you might want to have that looked at before you have people up there. It's high enough that it could be a problem if it were to give way. That's something to think about for your own personal, and your family's, safety.

Grob added a deck with openings like that is unsafe.

Lori Lynn Hilmer replied it was supposed to have wires between it, and now they make these glass frames that you can put out. We're looking at a composite deck up on top.

Petersen stated before you do that just, again from a former building professional, I would look at how this is framed underneath before you do anything else.

Lori Lynn Hilmer said I will have a licensed contractor look at it.

Andres asked in approximately '99 when you applied for the variance to have the second story put on, that was supposed to be strictly a garage. You said you turned it into living quarters around Covid time?

Lori Lynn Hilmer agreed.

Colin Hilmer stated 2006 is when this was built.

Andres continued from 2006 until 2019 it was strictly storage?

Colin Hilmer replied storage with a bathroom in it.

Andres clarified there were no living quarters in it? You didn't sleep in there for 10 years?

Lori Lynn Hilmer answered there was stuff up there. The same furniture is still there.

Andres commented it was designed to be strictly storage. I'm game with it being strictly storage and not living quarters. They only have one bedroom in it. It's not really living quarters anyway, it could be returned to strictly a garage. I'm not in support of living quarters in there.

Johnson added I did like her comment about those platforms being a designated area for a fire to prevent random fires on the beach. I don't see what harm they would do to the lake. I agree with you, Andres, on returning the garage structure to storage only.

Petersen stated I kind of feel the same way. My problem with the platforms is, as I looked at our questions that we've got to answer, I couldn't answer them positively. That's where I struggled on those.

Kovacovich added as far as the garage, it was permitted to be a garage and storage. I'm somewhat unclear about the bathroom that was put in, whether that was allowed or not. I definitely think it needs to go back to storage. As far as the deck, I have issues with the deck for a couple of reasons. It was unpermitted, and here we are after-the-fact, but based on the construction of that deck, I think the best solution is for that deck to come down and maybe allow some kind of a stairway platform for access if it's needed. It wasn't permitted, and it has structural issues. I have a hard time supporting that deck, but I am okay with storage. The platforms, I'm in agreement with Petersen, I don't know how we answer the questions affirmatively.

Kovacovich continued we should talk about the RV sites too.

Grob stated RV sites # 3 and 5 are your personal use units? The RV on site # 5 was one you used to go to Moondance. It's not rented.

Lori Lynn Hilmer agreed.

Grob continued # 3 was something that was used to go south?

Lori Lynn Hilmer replied yeah, it's already halfway there, so it's gone right now.

Grob asked is it hooked up to water and septic when it's sitting there? Do you rent that unit in the summertime?

Lori Lynn Hilmer responded we can. We mostly put family and friends there. There was a trailer that sat there. When he did the septic design, we had a two-bedroom trailer that sat in front of the garage. We took out the two-bedroom trailer, and that's where it sits.

Grob asked how long was that two-bedroom trailer there, in 1999?

Lori Lynn Hilmer answered it was there then.

Colin Hilmer added we pulled it out after that.

Lori Lynn Hilmer stated it was unsafe and it had mold.

Grob continued do you rent site # 3 in the summertime?

Lori Lynn Hilmer replied we have, yes.

Grob added so it's not your personal unit?

Lori Lynn Hilmer responded it is our personal unit.

Grob asked you bring it back and you connect it to your existing power, water, and septic?

Lori Lynn Hilmer stated the septic was from that trailer. It was already there.

Grob clarified it becomes a rental unit in the summertime?

Lori Lynn Hilmer answered yes, it has been.

Grob explained if it was just yours, and it was just parked there and stored, that's one thing. If it's rented, then it's a rental unit, and it's an additional one which is not allowed by your current nonconforming situation. It does have all the hookups of electrical and water.

Lori Lynn Hilmer replied because there was a mobile home unit there.

Grob continued Sites # 1 and 2 are hooked up to the septic system, and you had power run to them by a power company. There's a transformer there and there's electrical hookups to Sites # 1 and 2.

Lori Lynn Hilmer answered correct.

Grob asked you invested in electrical hookups to make those?

Lori Lynn Hilmer responded they're for work campers.

Grob explained I don't distinguish a work camper from a rental camper. These are functioning rental units, whether they pay money or they work it off. You did have a power system put in that supplies power to them. You have created those two new living unit areas. When did you do that?

Lori Lynn Hilmer answered it's in the application when I got the permit. I don't remember the year.

Grob stated 2019 according to the Beltrami Electric contract. Those have been made permanent sites within the last three years, just like the living unit above the garage. Is site # 4 just a parking spot?

Lori Lynn Hilmer replied I'm willing to do away with that. It's too crowded over there. We had a work camper over there, a single guy and a single gal, so it took two spots. We put him over there.

Grob asked there are no electrical hookups or anything there at all?

Lori Lynn Hilmer responded there's just electrical that plugs into the mobile home. They only need a 110.

Grob clarfied you are asking in your application for that location to be approved as an RV site.

Lori Lynn Hilmer replied I did, but I'm willing to retract that.

Grob continued the application indicates it is for 4 additional RV sites. That's 1, 2, 3, and 4, correct? You're not asking for 5 as an RV site?

Lori Lynn Hilmer agreed. That one's in storage. It's not used.

Grob stated between the garage and Sites 1, 2, 3, and 4, you're asking for 5 additional dwelling units for your resort?

Lori Lynn Hilmer answered I didn't consider them dwellings because they leave.

Grob explained if you've got water, sewer, and you rent them, they are a dwelling unit as part of your resort. I don't know how else you can look at them.

Lori Lynn Hilmer replied to me, they were temporary.

Grob continued anything over 30 days is a permanent site.

Lori Lynn Hilmer asked so I can have people in there for 30 days and then they have to leave?

Buitenwerf stated that is applicable to residential use lots.

Andres added I'm opposed to any additional dwelling units because currently there are 12 dwelling units on this property. Adding 5 more dwelling units would just be greatly increasing the nonconforming dwelling unit density. That's contrary to our ordinance's intent. The property is already at 500% over the allowed dwelling unit density, so this would be putting at like 700% over the dwelling unit density. Also, all the RV sites that the applicant is requesting do not meet the 150' ordinary high water setback from Mud Lake, and additionally # 4 does not meet the 100' setback from Wolf Lake. I'm just not in favor of the RV sites or the dwelling above the garage. I could somewhat be in favor of the platforms, but for Parts 2 and 3, I am opposed.

Grob asked Buitenwerf the staff write-up indicates that if this was a resort that was just starting, with the 480' of lakeshore and two acres, there'd be two units allowed?

Buitenwerf replied correct.

Grob continued is that dictated by Mud Lake, as a national environment lake? If Mud Lake were not there, what would the allowable density be?

Buitenwerf replied I'd have to calculate that. I didn't do that because the ordinance requires the more restrictive lake class to be the one that we use.

Grob asked would it be 4 instead of 2?

Buitenwerf answered it would be higher, whether it be 1 or 2 higher, I couldn't say.

Grob questioned is Mud Lake penalizing them in any way? They are just on that one last little tiny bay of the lake, and the road probably has as much impact as anything they would do.

Kovacovich added the ordinance is clear that it goes by the more restrictive lake classification, as Buitenwerf said. This property's been owned by the same party for quite some time, and they have had contact in the past on different issues with Environmental Services. It doesn't meet criteria. I am in agreement with Andres. I can't support any additional dwelling space, whether it be RV or above the garage. I'm still having issues with that deck. I can see how the platforms may have helped the situation that was there, but I'm struggling with how to affirmatively answer the questions.

Johnson made a motion to approve Part 1 of the variance application as presented with the condition that the current grass ground cover be maintained between the platforms and the beach.

Grob seconded the motion that passed 5 – 0.

Kovacovich made a motion to deny Parts 2 and 3 of the variance application requiring the applicant to convert the garage back to a storage structure with no living quarters allowed and remove the deck from the garage.

Andres seconded the motion that passed 5 – 0.

The Board provided the findings of fact answers for Part 1 and adopted the staff report findings for Part 2 with adjustments made to answers 1, 2, 3, and 4 and adopting answer 5 as written.

Findings of Fact

Part 1

1. Is the variance in harmony with the general purposes and intent of the official controls?

   Yes (X) No ( )

   Why or why not? I believe a designated platform for a fire pit containing the ash eliminates any need for beach fires so it is helping the lake.

2. Is the property owner proposing to use the property in a reasonable manner not permitted by an official control?

   Yes (X) No ( )

   Why or why not? A lakeside fire pit is a reasonable use for customers for a resort with a flat hard surface to sit on.

3. Is the need for a variance due to circumstances unique to the property and not created by the current or prior property owners?

   Yes (X) No ( )

   Why or why not? This is a legal, nonconforming resort with customers wanting to sit by the lake and gather with a fire.

4. Will the issuance of the variance maintain the essential character of the locality?

   Yes (X) No ( )

   Why or why not? Lakeside recreation alongside a fire pit is happening all up and down the shoreline.

5. Does the stated practical difficulty involve more than just economic considerations?

   Yes (X) No ( )

   Why or why not? Economics are cited in the application as a practical difficulty, but the property also is shallow enough in a north-south direction that the OHW setbacks from the two lakes that it

fronts overlap on much of the property and greatly reduce the available area on the rest of the property.

Part 2

1. Is the variance in harmony with the general purposes and intent of the official controls?

   Yes ( ) No (X)

   Why or why not? The property currently exceeds the 25% of lot area impervious surface area threshold. The two platforms increase this nonconformity. The property is large enough to only have two dwelling units on it. There currently are ten dwelling units and five more dwelling units are requested with two of them not meeting all required OHW setbacks. Increasing the nonconforming dwelling unit density by this amount is contrary to the ordinance's intent.

2. Is the property owner proposing to use the property in a reasonable manner not permitted by an official control?

   Yes ( ) No (X)

   Why or why not? The property is already 500% over the allowed dwelling unit density and the request is to further increase the density noncompliance so it would be 700% over the allowed dwelling unit density and require OHW setback variances for two of the units is also not a reasonable proposed use of the property.

3. Is the need for a variance due to circumstances unique to the property and not created by the current or prior property owners?

   Yes ( ) No (X)

   Why or why not? The property is sandwiched between a recreational development lake and a natural environment lake and is only 187' deep between the lakes on the west property line and roughly 285' deep between the lakes on the east property line so there isn't much available room that meets all setbacks. The property is also ~2.8 ac. in size and Wolf Lake Road, a township road, runs along the south side of the property which takes up a fair amount of area and contributes quite a bit toward the impervious surface area. The property is simply not large enough for the additional requested five dwelling units. The current landowner is trying to squeeze more improvements onto the property than what it is sized to be able to handle and the additional dwelling units are needed for the resort's economic vitality and are thus driven by the desired use of the property and not circumstances unique to the property.

4. Will the issuance of the variance maintain the essential character of the locality?

   Yes ( ) No (X)

   Why or why not? This resort property has seasonal residential properties on both its west and east sides. The requested RV and dwelling unit above the garage would add five dwelling units to the existing ten dwelling units when the property is only large enough to have two dwelling units on it. With the Township road that runs along the south side of the property, all the requested RV sites and the additional second story dwelling above the garage are very visible from the road.

5. Does the stated practical difficulty involve more than just economic considerations?

Yes (X) No ( )

Why or why not? Economics are cited in the application as a practical difficulty, but the property also is shallow enough in a north-south direction that the OHW setbacks from the two lakes that it fronts overlap on much of the property and greatly reduce the available area on the rest of the property.

Hubbard County Board of Adjustment
Findings of Fact
Approving and Denying a Variance

Applicant: Lori Lynn Hilmer dba Shangri-La Resort Date: December 19, 2022 Variance Application # 30-V-22

Parcel #s 07.01.02300 and 07.01.02910

The criteria for the granting of a variance are set forth in Section 1103 of the Shoreland Management Ordinance. A variance may be granted only where the strict enforcement of county zoning controls will result in a practical difficulty. Variances will only be issued when the Board of Adjustment answers Yes to each of the five questions set forth below.

Approved - Part 1: Sections 502.2, 701, and 901 of the Shoreland Management Ordinance (SMO) for two platforms placed within the 100' ordinary high water (OHW) mark setback from Wolf Lake that constitute an expansion of a nonconforming use and placement of non-vegetated ground cover in the shore impact zone.

1. Is the variance in harmony with the general purposes and intent of the official controls?

   Yes (X) No ( )

   Why or why not? I believe a designated platform for a fire pit containing the ash eliminates any need for beach fires so it is helping the lake.

2. Is the property owner proposing to use the property in a reasonable manner not permitted by an official control?

   Yes (X) No ( )

   Why or why not? A lakeside fire pit is a reasonable use for customers for a resort with a flat hard surface to sit on.

3. Is the need for a variance due to circumstances unique to the property and not created by the current or prior property owners?

   Yes (X) No ( )

   Why or why not? This is a legal, nonconforming resort with customers wanting to sit by the lake and gather with a fire.

4. Will the issuance of the variance maintain the essential character of the locality?

   Yes (X) No ( )

   Why or why not? Lakeside recreation alongside a fire pit is happening all up and down the shoreline.

5. Does the stated practical difficulty involve more than just economic considerations?

   Yes (X) No ( )

   Why or why not? Economics are cited in the application as a practical difficulty, but the property also is shallow enough in a north-south direction that the OHW setbacks from the two lakes that it fronts overlap on much of the property and greatly reduce the available area on the rest of the property.

The Answers to the questions above, together with the Facts supporting the answers and those other facts that exist in the record, are hereby certified to be the Findings of the Board of Adjustment.

Approved (X) Denied ( )

Denied - Part 2: Sections 502.1, 701, and 1012 of the SMO to expand a nonconforming use by adding four RV sites located within the 150' OHW mark setback of Mud Lake that increase the dwelling unit density nonconformity, and Part 3: Sections 701 and 1012 of the SMO to request an amendment of Variance 99-27 to allow the second story of the garage to be used as a dwelling unit with an attached deck that constitutes an expansion of a nonconforming use that increases the dwelling unit density nonconformity.

1. Is the variance in harmony with the general purposes and intent of the official controls?

   Yes ( ) No (X)

   Why or why not? The property currently exceeds the 25% of lot area impervious surface area threshold. The two platforms increase this nonconformity. The property is large enough to only have two dwelling units on it. There currently are ten dwelling units and five more dwelling units are requested with two of them not meeting all required OHW setbacks. Increasing the nonconforming dwelling unit density by this amount is contrary to the ordinance's intent.

Hubbard County Board of Adjustment
Findings of Fact
Approving and Denying a Variance

2. Is the property owner proposing to use the property in a reasonable manner not permitted by an official control?

Yes ( ) No (X)

Why or why not? The property is already 500% over the allowed dwelling unit density and the request is to further increase the density noncompliance so it would be 700% over the allowed dwelling unit density and require OHW setback variances for two of the units is also not a reasonable proposed use of the property.

3. Is the need for a variance due to circumstances unique to the property and not created by the current or prior property owners?

Yes ( ) No (X)

Why or why not? The property is sandwiched between a recreational development lake and a natural environment lake and is only 187' deep between the lakes on the west property line and roughly 285' deep between the lakes on the east property line so there isn't much available room that meets all setbacks. The property is also ~2.8 ac. in size and Wolf Lake Road, a township road, runs along the south side of the property which takes up a fair amount of area and contributes quite a bit toward the impervious surface area. The property is simply not large enough for the additional requested five dwelling units. The current landowner is trying to squeeze more improvements onto the property than what it is sized to be able to handle and the additional dwelling units are needed for the resort's economic vitality and are thus driven by the desired use of the property and not circumstances unique to the property.

4. Will the issuance of the variance maintain the essential character of the locality?

Yes ( ) No (X)

Why or why not? This resort property has seasonal residential properties on both its west and east sides. The requested RV and dwelling unit above the garage would add five dwelling units to the existing ten dwelling units when the property is only large enough to have two dwelling units on it. With the Township road that runs along the south side of the property, all the requested RV sites and the additional second story dwelling above the garage are very visible from the road.

5. Does the stated practical difficulty involve more than just economic considerations?

Yes (X) No ( )

Why or why not? Economics are cited in the application as a practical difficulty, but the property also is shallow enough in a north-south direction that the OHW setbacks from the two lakes that it fronts overlap on much of the property and greatly reduce the available area on the rest of the property.

The Answers to the questions above, together with the Facts supporting the answers and those other facts that exist in the record, are hereby certified to be the Findings of the Board of Adjustment.

Approved ( ) Denied (X)

Date: December 19, 2022

/s/ Mike Kovacovich

Mike Kovacovich

Chairperson, Board of Adjustment

Environmental Services

301 Court Avenue, Park Rapids, MN 56470
Phone: 218.732.3890
www.co.hubbard.mn.us/departments/environmental_services/index.php

December 20, 2022

Lori Lynn Hilmer
Shangri-La Resort
32326 Wolf Lake Road
Cass Lake, MN 56633

Re: Hubbard County Board of Adjustment decision for Variance Application 30-V-22

Dear Ms. Hilmer,

The Hubbard County Board of Adjustment (BOA) met on Monday, December 19, 2022 to review and consider the following variance application:

Variance Application 30-V-22 by Lori Hilmer: Part of Gov't Lots 9 & 10, Section 1, Township 145, Range 32, Farden Township between Wolf Lake, a recreational development lake and Mud Lake, a natural environment lake. Parcels 07.01.02300 and 07.01.02910. Applicant is requesting the following after-the-fact variances - Part 1: Sections 502.2, 701, 901, and 904.6 of the Shoreland Management Ordinance (SMO) for two platforms placed within the 100' ordinary high water (OHW) mark setback from Wolf Lake that constitute an expansion of a nonconforming use and nonconforming impervious surface area and placement of non-vegetated ground cover in the shore impact zone, Part 2: Sections 502.1, 701, and 1012 of the SMO to expand a nonconforming use by adding four RV sites located within the 150' OHW mark setback of Mud Lake that increase the dwelling unit density nonconformity, Part 3: Sections 701, 904.6, and 1012 of the SMO to request an amendment of Variance 99-27 to allow the second story of a detached garage to be used as a dwelling unit with an attached deck that constitutes an expansion of a nonconforming use that increases the dwelling unit density nonconformity and an expansion of the nonconforming impervious surface area.

The official decision of the Hubbard County Board of Adjustment is as follows:

> Johnson made a motion to approve Part 1 of the variance application as presented with the condition that the current grass ground cover be maintained between the platforms and the beach.
>
> Grob seconded the motion that passed 5 – 0.
>
> Kovacovich made a motion to deny Parts 2 and 3 of the variance application requiring the applicant to convert the garage back to a storage structure with no living quarters allowed and remove the deck from the garage.

Environmental Services

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Phone: 218.732.3890
www.co.hubbard.mn.us/departments/environmental_services/index.php

Andres seconded the motion that passed 5 – 0.

This is in accordance with Section 1103 of the Hubbard County Shoreland Management Ordinance and the findings of fact on file (enclosed) with the Environmental Services Department.

Your variance application itself does not constitute a permit. You will still need to obtain the necessary certification by the Mississippi Headwaters Board for the platforms and if certified, apply for and obtain after-the-fact land use permit(s) for the two platforms. If the MHB does not certify Part 1 of the variance application, the BOA's approval of Part 1 will be null and void.

Please contact our department at (218) 732-3890 with any questions.

Most sincerely,

Eric Buitenwerf
Environmental Services Director

Enclosure

Action/Discussion

Set up Budget Committee meeting- Action
Governor's Budget- Discussion
Executive Directors report- Discussion

DEPARTMENT OF NATURAL RESOURCES

One Minnesota Budget

"Get Out MORE" — Modernize Outdoor Recreation Experiences

Outdoor recreation is central to Minnesota's identity, fundamental to our economy, and essential for our health and quality of life. We have a once-in-a-generation opportunity to invest in renewing and evolving our outstanding, but aging, state outdoor recreation system. This transformative Get Out MORE (Modernize Outdoor Recreation Experiences) budget proposal will ensure Minnesotans of all abilities and interests enjoy a world-class recreation system, whatever outdoor adventure they choose.

Minnesota's outdoor recreation economy punches above its weight. The Bureau of Economic Analysis estimates that outdoor recreation contributes more than $9.9 billion annually to Minnesota's economy and makes up 91,000 jobs (Outdoor Industry Association survey, 2022). The DNR provides enriching public outdoor recreation —such as hunting, fishing, wildlife-watching, camping, skiing, hiking, biking, off-highway vehicle riding—for Minnesotans of all ages and backgrounds. These opportunities depend on Minnesota's well-managed outdoor recreation system that includes state parks, recreation areas, trails, forests, wildlife and aquatic management areas, public water access sites and other facilities. However, many DNR-managed facilities are 60 to 90 years old. These facilities are showing their age, and in some cases are not designed for today's outdoor users.

The $118 million Get Out MORE investment centers on five key areas:

Enhancing Access and Welcoming New Users to Public Lands and Outdoor Recreation Facilities

Improving accessibility at DNR-managed facilities and public lands for people with disabilities also enhances the experience of other users. Improved road access and signage and rehabilitated state trails further improve Minnesotans' recreational experiences. A General Fund investment of $28 million, combined with additional bonding funds, will support wide-ranging accessibility enhancements at state parks, recreation areas and wildlife management areas; provide accessible outdoor recreation equipment for use on state lands; improve parking lots, road access, and signage; and rehabilitate segments of the most used state trails.

Revitalizing Camping and Related Infrastructure

Much of Minnesota's camping and related outdoor recreation infrastructure was developed in the 1930s and 1960s and is not designed to meet the needs of today's visitors. Further, many of the wastewater and drinking water systems that support state campgrounds have reached the end of their useful life and need renewal and replacement. A combination of $5 million in General Fund and additional bonding dollars will fund the highest priority drinking water and wastewater system replacements, as well as a campground modernization pilot project.

Modernizing Boating Access

DNR-operated public water accesses need significant investment to make them accessible to all users, meet the needs of modern watercraft, improve protection of public waters from stormwater runoff and invasive species, and enhance climate resilience. A General Fund investment of $35 million, along with additional bond funding, will allow DNR to renew and rehabilitate more than 100 public water accesses to serve anglers, boaters and paddlers across Minnesota.

Enhancing Fisheries and Fishing Infrastructure

Minnesota's renowned fishing opportunities are supported by fish hatcheries that are in critical need of renewal and modernization. A number of these hatcheries were constructed in the 1950s and are still operating with original equipment. The DNR also manages 360 shore fishing sites and fishing piers across the state. Many new anglers, families and children, and people with more limited economic resources rely on shore fishing facilities to access Minnesota's public waters. A total of $35 million from the General Fund, plus bonding, will be used to modernize fish hatcheries, revitalize fishing piers, and add shore fishing opportunities where communities are currently underserved.

Restoring Streams and Modernizing Water-related Infrastructure to Support Outdoor Recreation

More intense rains are combining with changes in land use to cause more flooding and road washouts, degrade streambanks, and overwhelm water control structures. This impacts our fish, waterfowl and recreation opportunities. A $15 million General Fund investment will be used to replace culverts and bridges to improve stream ecology, remove or modify dams and restore habitat to enhance fish passage, and renovate other water control structures to address the impacts of climate change and support waterfowl production.

Minnesota is known for its unique outdoor recreation opportunities, but not all Minnesotans can experience those opportunities today. By building a more modern and inclusive outdoor recreation system, Minnesota can better serve current outdoor enthusiasts, connect even more people to the outdoors, and help ensure future generations will also benefit from time spent in our unparalleled natural places.

Throughout the 2023 legislative session, go to dnr.state.mn.us/aboutdnr/legislativeinfo for updates on these once-in-a-generation investments to Minnesota's outdoor recreation system as well as DNR's work on the FY 2024/25 biennial budget.

Executive Director Report

November - December 2022

Personnel, Budget, Administration, Information & Education, Correspondence

1. Reviewed monthly budget.
2. Prepared monthly agenda packet.
3. Sent in monthly expense report.
4. Sent press release to newspapers.
5. Reviewed monthly variances as they are brought forward by counties.
6. Sent updated history signage to DNR parks and trails for review.
7. Updated annual budget and work plan for SFY 2024.
8. Reviewed and provided comment on Crow Wing county ordinance revision.
9. Called New Commissioners to update them on MHB board meeting.
10. Updated and sent MHB reimbursement to DNR.
11. Signed biennial conference contract with Breezy Point Resort which is set up for 10/27/23.

Meetings & Networking

1. Held discussion with Jeff Forester, MN Lakes and Rivers director to discuss his role in AIS. Jeff invited me to a meeting that hopefully will provide me with some strategic direction.
2. Attended Aitkin Rivers & Trails committee meeting.
3. Attended the Crow Wing Committee of the Whole meeting and the Commissioners agreed that the Dahler project(1,200 acres around $2M) will be a great asset to the county. The Trust for Public land will need to have an appraisal done by the DNR so that will take a few months.
4. Beltrami County received funding from the BWSR from the Clean Water Fund to install a subsurface stormwater treatment system to reduce total suspended solids and total phosphorus loading to lake Bemidji. This was based off a Stormwater Retrofit Analysis (SRA) completed by using 1W1P funds. MHB first introduced SRA to the region back in 2014, and that leadership is producing future results.
5. Crow Wing County received funding from the BWSR from the Clean Water Fund to help stabilize a 1.4 acre gully that has been eroding since 1985. This project will address 26% of Brainerd's waste load allocation to the Miss. river (TMDL).
6. Discussion between MN-Fish, Governor Walz, and DNR Commissioner Strommen occurred and they are optimistic about having a bill to rehabilitate Public Water Accesses. Discovering pathways to get this to the local level and other discussions need to occur before this is presented to the legislature. Resourcetainment was used as a buzzword.
7. Attended MN DNR Roundtable where good discussions were held with leaders from the DNR.