

AGENDA

THE **BOARD OF ADJUSTMENT** WILL ASSEMBLE FOR A HEARING OF APPEALS FROM THE AITKIN COUNTY ZONING ORDINANCE ON April 3, 2024 **AT 4:00 P.M. IN THE AITKIN COUNTY GOVERNMENT CENTER BOARD ROOM, 307 SECOND STREET NW, AITKIN, MN 56431**. THE FOLLOWING APPLICATIONS WILL BE REVIEWED.

1. Call the meeting to order.
2. Roll call.
3. Approve the agenda for the April 3, 2024 Board of Adjustment meeting.

Old Business:

4. SUSAN WARD, 14232 TAMARACK ST NW, ANDOVER, MN 55304, is requesting a variance from the required 75 foot ordinary high water level setback on a general development lake (Minnewawa) to a setback distance of 70 feet to construct a 1344 square foot residence, in an area zoned shoreland. W 100 FT OF LOT 3 LESS S1410 IN C. T. #1088, Section Twenty-eight (28), Township Forty-nine (49), Range Twenty-three (23), Aitkin County, MN.

APP-2023-000499

New Business:

5. MARIA WYANT CUZZO, 102 EAST CALVARY ROAD, DULUTH, MN 55803, is requesting a variance from the required 100 foot ordinary high water level setback on a recreational development lake (Waukenabo) to a setback distance of 62 feet to construct a 32 foot by 30 foot attached garage to an existing nonconforming residence located 29 feet from the ordinary high water level, which is in the shore impact zone. LOT 1 AS IN DOC 471412. Section Fifteen (15), Township Forty-nine (49), Range Twenty-six (26), Aitkin County, MN.

APP-2024-000677

6. BRYON & MARCIA ANDERSON, 1903 WEST MARK STREET, WINONA, MN 55987, are requesting a variance from the required 100 foot ordinary high water level setback on a recreational development lake (Section 10) to a setback distance of 59 feet to construct a 12 foot by 24 foot residence addition and a 24 foot by 38 foot attached garage to an existing nonconforming residence located 59 feet from the ordinary high water level, in an area zoned shoreland. LOT 9 BLK 2 & PT VACATED RD IN DOC 453228. Section Eleven (11), Township Forty-six (46), Range Twenty-six (26), Aitkin County, MN.

APP-2024-000717

7. DONALD & SUSANNE MORRISON TRUST, 19029 YALE CIRCLE, ELK RIVER, MN 55330, are requesting a variance from the required 100 foot ordinary high water level setback on a recreational development lake (Spirit) to a setback distance of 50 feet to construct an 184 square foot residence addition on an existing nonconforming residence located 30 feet from the ordinary high water level, which is in the shore impact zone. .39 AC OF LOTS 2 & 4 IN DOCS 158215 & 324620. Section Twenty-six (26), Township Forty-six (46), Range Twenty-seven (27), Aitkin County, MN.

APP-2024-000760

8. Approval of minutes, March 6, 2024.

9. Adjourn.

AITKIN COUNTY ZONING

Authorized Agent

<p>Please attach the completed authorized agent form:</p>	<div style="border: 1px dashed black; padding: 10px; text-align: center;">  <p>Authorization_Form.jpeg</p> </div>
<p>Property Owner Email Address:</p>	<p>maria.cuzzo@charter.net</p>

Property Location

<p>Property:</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: left;">Property Location</th> <th colspan="3" style="text-align: left;">Legal Description</th> <th colspan="2" style="text-align: left;">Property Attributes</th> <th style="text-align: left;">Owner Information</th> <th style="text-align: left;">Tax Payer Information</th> </tr> <tr> <th style="text-align: left;">Parcel Number</th> <th style="text-align: left;">Property Address</th> <th style="text-align: left;">Township or City Name</th> <th style="text-align: left;">Legal Description</th> <th style="text-align: left;">Plat Name</th> <th style="text-align: left;">Section-Township-Range</th> <th style="text-align: left;">Lake Class</th> <th style="text-align: left;">Lake Name</th> <th style="text-align: left;">Owner Name(s)</th> <th style="text-align: left;">Taxpayer Name(s)</th> </tr> </thead> <tbody> <tr> <td>35-0-024402</td> <td>36797 500th Ln PALISADE, MN 56469</td> <td>WAUKENABO TWP</td> <td>LOT 1 AS IN DOC 471412</td> <td></td> <td>S:15 T:49 R:26</td> <td>RD</td> <td>WAUKENABO LAKE</td> <td>CUZZO, MARIA WYANT</td> <td>WYANT, CHARLES & ANIA</td> </tr> </tbody> </table>										Property Location			Legal Description			Property Attributes		Owner Information	Tax Payer Information	Parcel Number	Property Address	Township or City Name	Legal Description	Plat Name	Section-Township-Range	Lake Class	Lake Name	Owner Name(s)	Taxpayer Name(s)	35-0-024402	36797 500th Ln PALISADE, MN 56469	WAUKENABO TWP	LOT 1 AS IN DOC 471412		S:15 T:49 R:26	RD	WAUKENABO LAKE	CUZZO, MARIA WYANT	WYANT, CHARLES & ANIA
	Property Location			Legal Description			Property Attributes		Owner Information	Tax Payer Information																														
	Parcel Number	Property Address	Township or City Name	Legal Description	Plat Name	Section-Township-Range	Lake Class	Lake Name	Owner Name(s)	Taxpayer Name(s)																														
35-0-024402	36797 500th Ln PALISADE, MN 56469	WAUKENABO TWP	LOT 1 AS IN DOC 471412		S:15 T:49 R:26	RD	WAUKENABO LAKE	CUZZO, MARIA WYANT	WYANT, CHARLES & ANIA																															
<p>Driving directions to the proposed project from Aitkin: 169 north. Take left at 500th Lane. Follow the road until the very end.</p>																																								
<p>Is the above parcel located in the Shoreland Zoning District? <u>Yes</u></p>																																								

Detailed Narrative

<p>Enter a Detailed Narrative (If you have a prepared narrative please state "See attached" and attach the document below):</p>	<p>It is our intention (Chuck and Ania Wyant) to move full time to the residence located at 36797 500th Lane. The nonconforming house does not have an attached or detached garage located near the house. There is a garage that is located approximately 300+ feet from the house. It is our objective to build an attached garage without living quarters to the existing home so that we may protect and secure our vehicles and other garage related items. It would also allow us to enter the home without the effects of outside elements (rain, snow. etc). The attached garage will measure 30x32 feet with a matching roofline. The setback for the proposed garage is 62 feet but because the home is located on a peninsula, it is not possible to comply with the 100 foot setback. We offset the garage to the house in order to accommodate as much setback as possible.</p>
<p>Provide the Ordinance(s) and the Section(s) of the Ordinance(s) from which you are requesting a variance:</p>	<p>5.21</p>
<p>Are you requesting a variance to a road right-of-way setback in one of these Townships? Fleming, Glen, Lakeside, Pliny, Shamrock, Wagner</p>	<p><u>No</u></p>

Supplemental Data

<p>Attach completed form here:</p>	<p>File 1: Supplemental_Data_to_Variance.pdf</p>
------------------------------------	--

A Scaled Drawing or Survey

Scaled Drawing or Survey Checklist:	<p><u>Location and dimensions for all lot lines.</u></p> <p><u>Location and dimensions of all existing and proposed structures/additions.</u></p> <p><u>Location and depth of all existing and proposed wells within 100 feet of the property.</u></p> <p><u>Location and dimensions of all existing and proposed septic system components (septic tank, septic drainfield).</u></p> <p><u>Location and dimensions of all existing and proposed driveways, road right-of-ways, and easements.</u></p> <p><u>If topography is unusual, show elevations and location of bluffs, steep slopes, wetlands, etc.</u></p> <p><u>Indicate all setback distances for items listed above: ordinary high water level of lakes or rivers, lot lines, road right-of-ways, etc.</u></p>
Attach a Scaled Drawing or Survey:	<p>File 1: Point_Survey.pdf</p>

Side Profile Sketch of the Structure

Attach a side profile sketch of your proposed structure or addition here (if applicable):	<p>File 1: Garage_Proposal.pdf</p>
---	--

Certificate of Septic Compliance

Please attach a copy of one of the following: - A current compliance inspection on the existing septic system. - A design for a new/replacement septic system.	<p>File 1: Septic_Compliance.pdf</p>
--	--

Shoreland Performance Worksheet

Complete the Shoreland Performance Worksheet and attach here:

File 1: [Shoreland_Performance_Worksheet.pdf](#)

Standard Erosion Control Plan

Attach the completed Standard Erosion Control Plan here:

File 1: [Erosion_Control_Diagram.pdf](#)

File 2: [Erosion_Control_Plan.pdf](#)

Property Deed

Attach the property deed(s):



File 1: [Deed_page_1.JPEG](#)



File 2: [Deed_page_2.JPEG](#)



File 3: [Deed_page_3.JPEG](#)



Terms

General Terms

The landowner or authorized agent hereby certifies that to the best of their knowledge the application and supporting documents are a factual representation of the proposed project. The landowner or authorized agent agrees that, in making application, the landowner grants permission to Aitkin County, at reasonable times, to enter the property to determine compliance of the application with applicable Local, County or State Ordinances or Statutes. It is the applicant's responsibility to contact other Local, County or State agencies to ensure the applicant has complied with all relevant Local, County or State Ordinances or Statutes.

Submittal of the above materials does not always constitute a complete application. Other information may be necessary to complete the application based on the type of request and onsite inspection.

I acknowledge that by submitting this application, the application and its attachments are public information.

Invoice #58780 (03/01/2024) Expected Payment Method: Pay Online - Card or ECheck

Charge	Cost	Quantity	Total
Recording Fee added 09/28/2023 3:03 PM \$46 Flat Fee	\$46.00	x 1	\$46.00
Variance added 09/28/2023 3:03 PM \$650 Flat Fee	\$650.00	x 1	\$650.00
Grand Total			
		Total	\$696.00
		Payment 03/01/2024	\$696.00
		Due	\$0.00

Results ([Go to top](#))
 Signature accepted
 Failed to send [Variance Ready for Action](#) notification to:

Approvals

Approval	Signature
----------	-----------

Applicant	Ania S. Wyant - 03/05/2024 12:26 PM 00fd19bb36d77e5474e56e5b90d13f99 4bfd014af8efd6ad8bb29553ded8f2a6
#1 Admin	Kim Burton - 03/08/2024 11:20 AM 3dfab32c99cd317381a008c81576340a 5f59898b745ef2bffa2d329c31d39887
#2 Board of Adjustment	

Public Notes

Text:	<div style="border: 1px solid black; height: 300px; width: 100%;"></div>
File(s):	<div style="border: 1px dashed black; height: 20px; width: 100%;"></div>

Admin Checklist

This review has been started by:	Kim Burton ▼
Zoning District of project location:	Shoreland ▼
Project located in the floodplain?	No ▼

Is the parcel a Lot of Record before 1-21-92 or have alternate sites been identified?	Yes <input type="button" value="v"/>
Is this an after-the-fact application?	No <input type="button" value="v"/>

Numbers

	Current Number	Next from Sequence
UID #	209095	<i>not applicable</i>
App. #	<input type="text" value="App-2024-000677"/>	<input type="button" value="««"/> App-2024-000737
Permit #	<input type="text"/>	<input type="button" value="««"/> 2024-0097

Print View



Aitkin County Environmental Services - Planning & Zoning
307 2nd Street NW, Room 219
Aitkin, MN 56431
(P) (218) 937-7342
(F) (218) 937-4372
(E) aitkinpz@co.aitkin.mn.us

AUTHORIZATION FORM

I hereby authorize the agent named below to act as my authorized agent for all public hearing applications and land use permits on property located at:

Parcel Numbers(s):	35-0-024402
E911 Address of Property:	36797 500th Lane Palisade, MN 56469

Authorized Agent Information:

Agent name:	Aria S. Wyant
-------------	---------------

Property Owner Information:

Owner name:	Maria Wyant Cuzzo	Phone number:	218-591-8488
Email:	maria.cuzzo charter.net		
Property Owner Signature:	Maria Wyant Cuzzo	Date:	10/1/23

PART I: SUPPLEMENTAL DATA TO VARIANCE APPLICATION

Aitkin County Environmental Services
307 Second St. NW, Room 219, Aitkin, MN 56431
Phone: 218.927.7342 Fax: 218.927.4372
www.co.aitkin.mn.us

Note: Place an “X” by each item below that applies to your variance 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.

- Setback issues for a proposed new structure: **Complete Section 1**
- Setback issues for an alteration to an existing nonconforming structure: **Complete Section 2**
- Setback issues for a septic system: **Complete Section 3**
- Land alteration: **Complete Section 4**
- Creating a lot not in conformance with the minimum Ordinance standards: **Complete Section 5**
- Other: attach separate sheet explaining variance request

Section 1 – New Structure(s)

Check all that apply and fill in requested information:

- | | |
|--|--|
| <input type="checkbox"/> Basement | <input type="checkbox"/> One Story Level |
| <input type="checkbox"/> Crawlspace | <input type="checkbox"/> Story-and-a-Half Level |
| <input type="checkbox"/> Walk-out Basement | <input type="checkbox"/> 2 nd Story Level |

Proposed # of Bedrooms _____ Proposed Structure Height _____ ft.

Existing Total Building Coverage _____% Proposed Total Building Coverage _____%

Existing Total Impervious Surface Coverage _____% Proposed Total Impervious Surface Coverage _____%

“Building Coverage” means the ground surface covered by any building or appurtenance, including, but not limited to, decks, platforms, overhangs and projections therefrom, outdoor furnaces, fishhouses, sheds, carports, lean-to’s, or any similar building. –as per the Aitkin County Shoreland Management Ordinance.

“Impervious surface coverage” means any structure, facility or surface that sheds water including structures and facilities, sewage treatment system absorption areas (equal to 190 sq.ft./bedroom), retaining walls, and roadway surfaces and parking areas. Impervious surface does not include eaves of two feet and less. – Per the Aitkin Count Shoreland Management Ordinance.

Itemized square footage of proposed structure(s):

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.

Proposed Structure Type (indicate with or without living quarters) _____

_____ Ordinary High Water Level (OHWL)	Proposed Setback _____ ft.
_____ Property Line	Proposed Setback _____ ft.
_____ Road Right-of way __ Twp __ Co. __ State	Proposed Setback _____ ft.
_____ Bluff	Proposed Setback _____ ft.
_____ Other: _____	Proposed Setback _____ ft.

Section 2 – Alteration(s) to Existing Nonconforming Structure(s)

Check all that apply and fill in requested information:

Existing Structure

Basement
 Crawlspace
 Walk-out Basement
 One Story Level
 Story-and-a-Half Level
 2nd Story Level

Existing Structure Height 17 ft.
 Existing # of Bedrooms 3
 Existing Building Coverage 2.4 %
 Existing Total Impervious Surface Coverage 10.7 %

Proposed Addition(s)

Basement
 Crawlspace
 Walk-out Basement
 One Story Level - Attached garage
 Story-and-a-Half Level
 2nd Story Level

Proposed Addition(s) Height 17 ft.
 Final # of bedrooms after remodel 3
 Proposed Building Coverage 1 %
 Proposed Total Impervious Surface Coverage 13.8 %

“Building Coverage” means the ground surface covered by any building or appurtenance, including, but not limited to, decks, platforms, overhangs and projections therefrom, outdoor furnaces, fishhouses, sheds, carports, lean-to’s, or any similar building. –as per the Aitkin County Shoreland Management Ordinance.

“Impervious surface coverage” means any structure, facility or surface that sheds water including structures and facilities, sewage treatment system absorption areas (equal to 190 sq.ft./bedroom), retaining walls, and roadway surfaces and parking areas. Impervious surface does not include eaves of two feet and less. – Per the Aitkin Count Shoreland Management Ordinance.

Itemized square footage of proposed structure(s):

30 x 32 foot (960 square footage) attached garage addition to existing nonconforming home

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.

Proposed Alteration Type Attached two car garage

<input checked="" type="checkbox"/> Ordinary High Water Level (OHWL)	Existing Setback <u>29</u> ft.	Proposed Setback <u>29</u> ft.
<input type="checkbox"/> Property Line	Existing Setback _____ ft.	Proposed Setback _____ ft.
<input type="checkbox"/> Road Right-of way __ Twp __ Co. __ State	Existing Setback _____ ft.	Proposed Setback _____ ft.
<input type="checkbox"/> Bluff	Existing Setback _____ ft.	Proposed Setback _____ ft.
<input type="checkbox"/> Other: _____	Existing Setback _____ ft.	Proposed Setback _____ ft.

Section 3 – Septic System

Check the item(s) from which you are requesting a variance and fill in the proposed setback distance.

<input type="checkbox"/> Ordinary High Water Level (OHWL)	Proposed Setback _____ ft.
<input type="checkbox"/> Property Line	Proposed Setback _____ ft.
<input type="checkbox"/> Road Right-of way __ Twp __ Co. __ State	Proposed Setback _____ ft.
<input type="checkbox"/> Bluff	Proposed Setback _____ ft.
<input type="checkbox"/> Other: _____	Proposed Setback _____ ft.

Section 4 – Land Alteration

What is your land alteration? Check all categories that apply and indicate the total amount of excavation or placement of fill.

<input type="checkbox"/> More than 10 cubic yards on steep slopes and shore and bluff impact zones.	Total Cubic Yds. _____
<input type="checkbox"/> Other: _____	Total Cubic Yds. _____

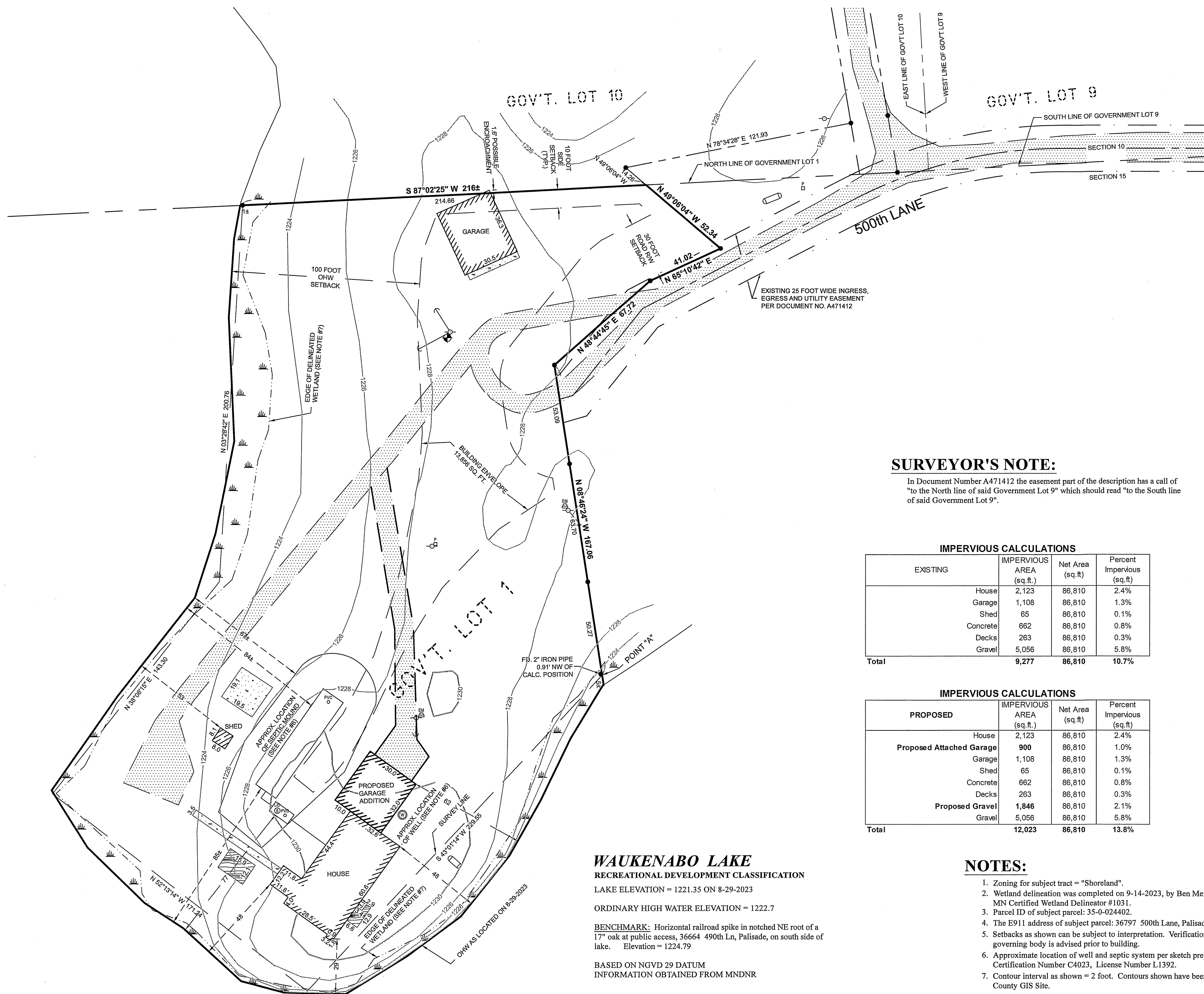
Section 5 – Creating Nonconforming Lot(s)

Check the item(s) from which you are requesting a variance and fill in the proposed dimensions.

<input type="checkbox"/> Property Width	Proposed Property Width _____
<input type="checkbox"/> Property Area	Proposed Property Area _____
<input type="checkbox"/> (2) Standard Septic Sites	
<input type="checkbox"/> Legal Access	

CERTIFICATE OF SURVEY

PART OF GOVERNMENT LOT 1,
SECTION 15, TOWNSHIP 49 NORTH, RANGE 26 WEST,
AITKIN COUNTY, MINNESOTA
AREA = 86,810 SQ. FT. ± / 2.0 ACRES ±



LEGAL DESCRIPTION PER DOCUMENT A471412

That part of Government Lot 1, Section 15, Township 49 North, Range 26 West, Aitkin County, Minnesota, lying Westerly of the following described line: Commencing at the certified concrete monument marking the Northwest corner of Section 10, Township 49 North, Range 26 West, said county, and assuming the North line of said Section 10 bears North 89 degrees 04 minutes 17 seconds East as measured between the Northwest and Northeast corners of said Section 10; thence South 15 degrees 23 minutes 45 seconds East 5537.70 feet to an iron pipe monument hereinafter referred to as Point "A"; thence South 08 degrees 46 minutes 24 seconds East 24 feet, more or less, to the shoreline of Waukenabo Lake and point of beginning of the line to be herein described; thence North 08 degrees 46 minutes 24 seconds West 24 feet, more or less, to said Point "A"; thence North 08 degrees 46 minutes 24 seconds West 167.06 feet to an iron pipe monument; thence North 48 degrees 44 minutes 45 seconds East 67.72 feet to an iron pipe monument; thence North 65 degrees 10 minutes 42 seconds East 41.02 feet to an iron pipe monument; thence North 49 degrees 06 minutes 04 seconds West 52.34 feet, more or less, to an iron pipe monument on the North line of said Government Lot 1 and said described line there terminating.

TOGETHER WITH

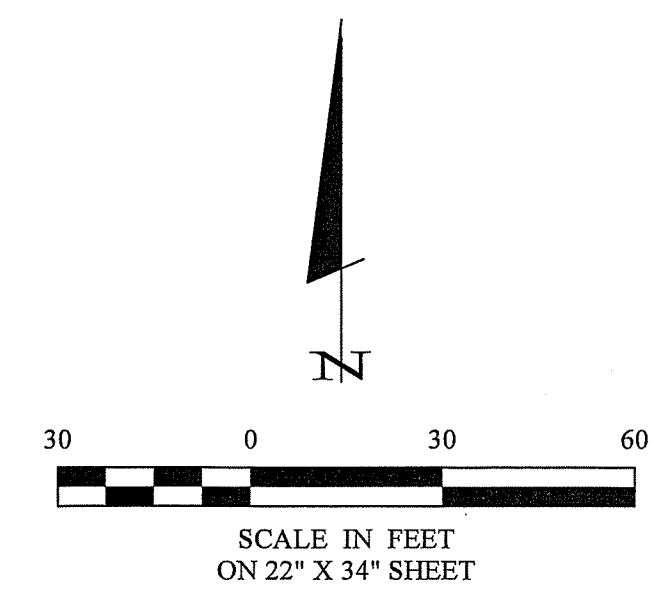
A permanent, non-exclusive 25.00 foot wide easement for ingress, egress and utility purposes over, under and across that part of Government Lot 9 and Government Lot 10, Section 10, and that part of Government Lot 1, Section 15, all in Township 49 North, Range 26 West, Aitkin County, Minnesota, the centerline of said easement is described as follows: Commencing at the certified concrete monument marking the Northwest corner of said Section 10 and assuming the North line of said Section 10 bears North 89 degrees 04 minutes 17 seconds East as measured between the Northwest and Northeast corners of said Section 10; thence South 15 degrees 23 minutes 45 seconds East 5537.70 feet to an iron monument; thence North 08 degrees 46 minutes 24 seconds West 148.71 feet to the point of beginning of the centerline to be herein described; thence North 74 degrees 02 minutes 54 seconds East 7.36 feet; thence North 38 degrees 50 minutes 14 seconds East 59.03 feet; thence North 62 degrees 23 minutes 57 seconds East 127.82 feet; thence Northeasterly 113.03 feet along a tangential curve concave to the Southeast having a radius of 235.11 feet and a central angle of 27 degrees 32 minutes 40 seconds; thence North 89 degrees 56 minutes 37 seconds East 324.20 feet; thence North 83 degrees 32 minutes 14 seconds East tangent to said curve 93.87 feet; thence Northeasterly 23.50 feet along a tangential curve concave to the Northwest having a radius of 288.82 feet and a central angle of 04 degrees 39 minutes 41 seconds, more or less, to the North line of said Government Lot 9 and said described centerline there terminating.

Aitkin County, Minnesota
(Abstract)

LEGEND

- DENOTES EDGE OF EXISTING GRAVEL
- DENOTES EDGE OF EXISTING CONCRETE
- DENOTES EDGE OF EXISTING WOODEN DECKING
- DENOTES WET LAND(S)
- DENOTES EXISTING UTILITY POLE W/ GUY WIRE
- DENOTES EXISTING ELECTRIC METER
- DENOTES EXISTING LP TANK
- DENOTES EXISTING PHONE PEDESTAL & PHONE BOX
- DENOTES EXISTING SEPTIC VENT, SEPTIC CLEANOUT, & SEPTIC TANK LID
- BENCHMARK:** SET IRON ROD IN SW FACE OF POWER POLE
- ELEV. = 1228.65 BASED ON NGVD 29 DATUM
- DENOTES MONUMENT FOUND

ORIENTATION OF THIS BEARING SYSTEM IS BASED ON THE NORTH LINE OF GOVERNMENT LOT 1 TO HAVE AN ASSUMED BEARING OF S 87°02'25" W.



SURVEYOR'S NOTE:

In Document Number A471412 the easement part of the description has a call of "to the North line of said Government Lot 9" which should read "to the South line of said Government Lot 9".

IMPERVIOUS CALCULATIONS

EXISTING	IMPERVIOUS AREA (sq.ft.)	Net Area (sq.ft.)	Percent Impervious (sq.ft.)
House	2,123	86,810	2.4%
Garage	1,108	86,810	1.3%
Shed	65	86,810	0.1%
Concrete	662	86,810	0.8%
Decks	263	86,810	0.3%
Gravel	5,056	86,810	5.8%
Total	9,277	86,810	10.7%

IMPERVIOUS CALCULATIONS

PROPOSED	IMPERVIOUS AREA (sq.ft.)	Net Area (sq.ft.)	Percent Impervious (sq.ft.)
House	2,123	86,810	2.4%
Proposed Attached Garage	900	86,810	1.0%
Garage	1,108	86,810	1.3%
Shed	65	86,810	0.1%
Concrete	662	86,810	0.8%
Decks	263	86,810	0.3%
Proposed Gravel	1,846	86,810	2.1%
Gravel	5,056	86,810	5.8%
Total	12,023	86,810	13.8%

NOTES:

- Zoning for subject tract = "Shoreland".
- Wetland delineation was completed on 9-14-2023, by Ben Meister, Meister Environmental, LLC. MN Certified Wetland Delineator #1031.
- Parcel ID of subject parcel: 35-0-024402.
- The E911 address of subject parcel: 36797 500th Lane, Palisade.
- Setbacks as shown can be subject to interpretation. Verification of setbacks by the governing body is advised prior to building.
- Approximate location of well and septic system per sketch prepared by Charles J. Virginia, Certification Number C4023, License Number L1392.
- Contour interval as shown = 2 foot. Contours shown have been digitized from the Aitkin County GIS Site.

WAUKENABO LAKE

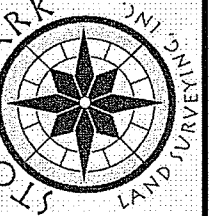
RECREATIONAL DEVELOPMENT CLASSIFICATION
LAKE ELEVATION = 1221.35 ON 8-29-2023

ORDINARY HIGH WATER ELEVATION = 1222.7

BENCHMARK: Horizontal railroad spike in notched NE root of a 17" oak at public access, 36664 490th Ln, Palisade, on south side of lake. Elevation = 1224.79

BASED ON NGVD 29 DATUM
INFORMATION OBTAINED FROM MNDNR

30206 Rasmussen Road
Suite 1
P. O. Box 874
Pequot Lakes, MN 56472
218-568-0940
www.stonemarksurvey.com



HEREBY CERTIFY THAT THIS SURVEY PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.

BY: *Charles J. Virginia*
DATE: 9/26/2023
LIC. NO. 44881

REVISIONS	DATE	DESCRIPTION

PROJECT No.:	DATE:	SCALE:	VERT.:
23229	9-26-2023	1"=30'	NONE

PROJECT MANAGER:	CHECKED BY:	FILE NAME:	FIELD BOOK:	BOOK:	PG.
PAT	PAT	C23229.dwg			

CERTIFICATE OF SURVEY
Anita Wyatt
9883 Belmont Drive
Lenexa, KS 66227



Septic System Compliance Inspection – Existing System

Date: 5/31/2022

Property Owner: Maria Wyant Cuzzo

Ordered By: Maria Wyant Cuzzo 218 591 8488

Address: 36797 500th Lane, Palisade, MN 56469

Property ID#: 35-0-024402

Inspector: Tim Woodrow

A compliance inspection was performed at the above location. Soil evaluation was conducted to determine the level of seasonal saturated soil. The Soil Treatment Area (Drain field) was also inspected to ensure there was no ponding or leaking. The septic tank was pumped and inspected. This onsite system was found to be **Compliant**.

- **Impact On Public Health:**
System is Compliant
- **Tank Integrity:**
Tank(s) are compliant
- **Other Compliance Conditions:**
None
- **Soil Separation**
Soils are compliant
- **Operating Permit and Nitrogen BMP**
NA

I have included a copy of the compliance documents for your record. I have also sent a copy to Aitkin County for their records. If you have any questions, please do not hesitate to give us a call.

Thanks!

Tim Woodrow

Owner

218-927-6175



DISCLAIMER:

The septic system inspection conducted for this property meets MPCA requirements for existing systems.

We recommend this system to be serviced and evaluated at least every 36 months by a septic professional.

This inspection does not guarantee future performance.

Any additions to the home or increased use of the home may require an increase in system capacity.

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: 35-0-024402 Reason for Inspection Transfer

Local regulatory authority info: Aitkin County

Property address: 36797 500th Lane, Palisade, MN 56469

Owner/representative: Sophia Wyant Owner's phone: 218 591 8488

Brief system description: 1350 Gravity to a 13' x 62' mound

System status

System status on date (mm/dd/yyyy): 5/31/2022

Compliant – Certificate of compliance*

Noncompliant – Notice of noncompliance

(Valid for 3 years from report date unless evidence of an imminent threat to public health or safety requiring removal and abatement under section 145A.04, subdivision 8 is discovered or a shorter time frame exists in Local Ordinance.)

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.

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

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: Timber Lakes Septic Service Certification number: C7644

Inspector signature: Tim Woodrow License number: L455

(This document has been electronically signed) Phone: 218-927-6175

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): _____

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

Compliance criteria:

System discharges sewage to the ground surface	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
System discharges sewage to drain tile or surface waters.	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
System causes sewage backup into dwelling or establishment.	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No

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

Describe verification methods and results:

Attached supporting documentation:

- Other: _____
- Not applicable

2. Tank integrity – Compliance component #2 of 5

Compliance criteria:

System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
Sewage tank(s) leak below their designed operating depth?	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
If yes, which sewage tank(s) leaks:	

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

Describe verification methods and results:

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): 5/31/2022 (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: _____

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:

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)

5. Soil separation – Compliance component #5 of 5

Date of installation _____ Unknown
 (mm/dd/yyyy)

Shoreland/Wellhead protection/Food beverage lodging? Yes No

Attached supporting documentation:

- Soil observation logs completed for the report
- Two previous verifications of required vertical separation
- Not applicable (No soil treatment area)
- _____

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.

Indicate depths or elevations

A. Bottom of distribution media	100
B. Periodically saturated soil/bedrock	97.1
C. System separation	2.9'
D. Required compliance separation*	2.55'

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

***Any "no" answer above indicates the system is failing to protect groundwater.**

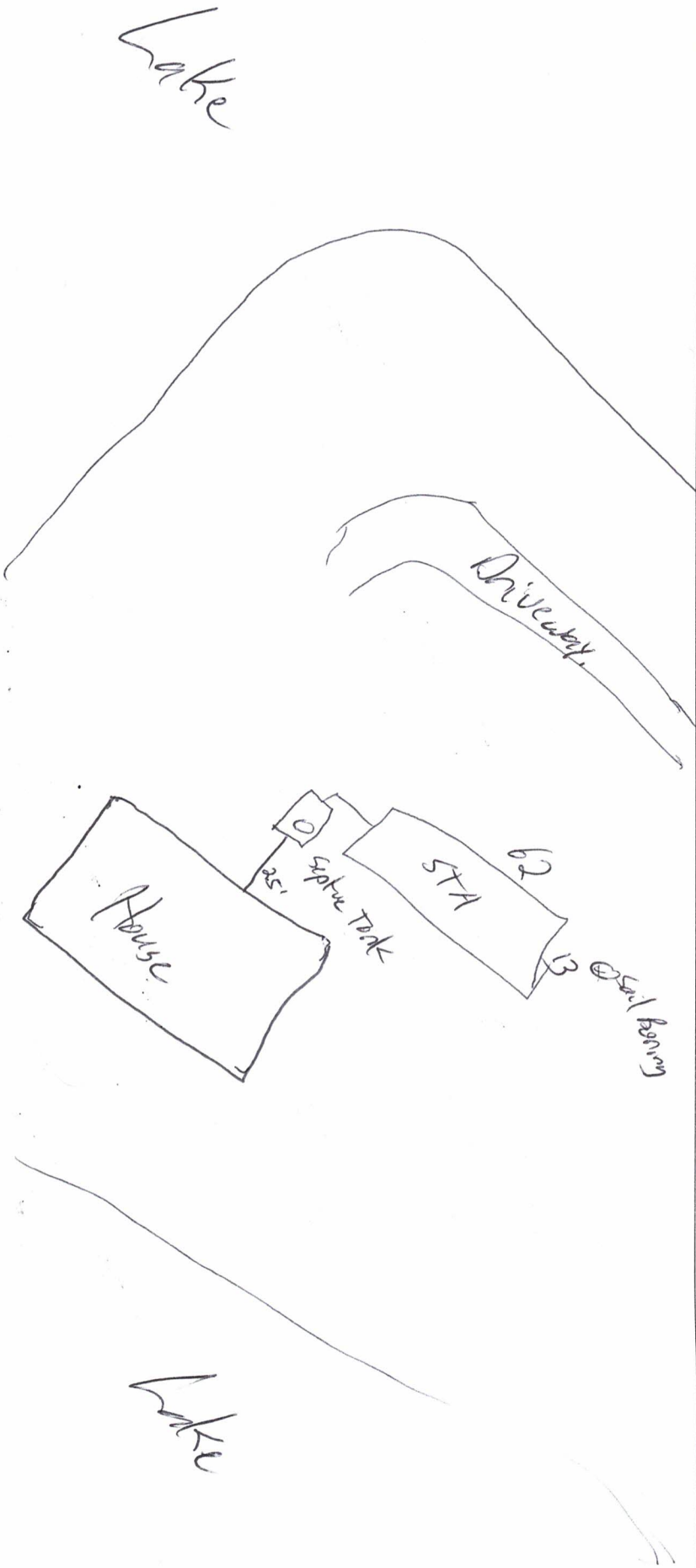
Describe verification methods and results:

Upgrade requirements: (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, 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.

SKETCH SHEET AND SOIL BORING LOG



INSPECTOR: Tim Woodrow	Equipment: Bucket Auger
DATE: 5/26/2022	Elevation of Limiting Layer: 97.1'
PID#: 35-0-024402	Vegetation: Mowed Grass
SITE ADDRESS: 36797 500 th Lane, Palisade, MN 56469	Weather: Sunny & Clear
Benchmark (EL = 100'): Bottom of Rock in STA	



DEPTH	TEXTURE	COLOR
0 - 6"	Top Soil	10 YR 3/2
6" - 14"	Sand (Medium)	10 YR 4/3
14" - 18"	Sand (Medium)	10 YR 6/2
	Redox @ 14" EL: 97.1'	w 5 YR 5/6
SOIL BORING #1 EL: 98.3'		

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

307 Second Street NW, Room 219
Aitkin, Minnesota 56431

PH: (218) 927-7342
FX: (218) 927-4372



PART VI: VARIANCE APPLICATION

“Aitkin County Shoreland Performance” Worksheet Instructions:

Are you applying for a variance from the Aitkin County Shoreland Management Ordinance? If so, you must complete the “Aitkin County Shoreland Performance” sheet. This is used as an attempt to evaluate your property and project as it relates to the required setbacks and the intent of the Ordinance to protect water quality, habitat and aesthetics. Your project will receive a ranking/score that relates to a “percentage” of compliance with the Department of Natural Resources guidelines and Aitkin County Ordinances.

STEP 1: Determine the level of non-conformance and score by completing 1-5 on the worksheet. The actual setback will be multiplied by the corresponding ‘score multiplier’ to determine your “Pre-mitigation Lot Score”.

STEP 2: Review the mitigation options and circle those that you would be willing to implement as a condition of your variance. See letters A-J.

*As a note, if you will be creating a buffer zone or other landscape project as part of your mitigation plan, please be prepared to present an approved plan to the Board of Adjustment. Although not familiar with specifics of the “Aitkin County Shoreland Performance” worksheet, the Aitkin County Soil & Water Conservation District [SWCD] (218-927-7284) and the University of Minnesota Extension Master Gardeners (218-927-2538) may be resources that would be able to provide you with planting suggestions and landscaping ideas.

STEP 3: A final score is determined by adding your “Pre-mitigation Lot Score” with your “Mitigation Total”. *Please note, the property should obtain a score of 100 or more to meet performance standard requirements.*

After a practical difficulty has been determined, the Board of Adjustment may use the “Aitkin County Shoreland Performance” sheet submitted with your application and/or use their own completed sheet to attempt to mitigate impacts to the water-body and/or adjoining properties.

If you have any questions, please contact Aitkin County Environmental Services – Planning & Zoning at (218) 927-7342.

AITKIN COUNTY SHORELAND PERFORMANCE

(Structure Placement Guidance)

A property should obtain a score of 100 or more to meet performance standard requirements. A conforming lot is assigned a score of 100. A lot is deemed conforming when the structure meets the required setbacks to the protected water as specified in the Aitkin County Shoreland Management Ordinance (SMO). A structure that fails to meet this definition is considered non-conforming.

To determine the level of non-conformance and score (See Reference Table):

- | | |
|---|---|
| 1) Determine the DNR classification of the protected water on the lot (SMO-4.13 & 4.14) | 1: <u>Recreational Development Lake</u> |
| 2) Determine the required "Structure Setback" to that classification of water (SMO 5.2) | 2: <u>100</u> |
| 3) Determine the "Actual Setback" of the structure by measuring the closest part of the structure to the protected water, bluff, right-of-way, property line, etc. for which a variance is sought..... | 3: <u>29</u> |
| 4) Enter the corresponding 'Score Multiplier' | 4: <u>1.000</u> |
| 5) Pre-mitigation 'Lot Score': Determine the percentage of the encroachment as it relates to the standard setback by multiplying the Actual Setback with the 'Score Multiplier' (Note: round to the nearest whole number) | 5: <u>29</u> |

Reference Table: Performance Multipliers for structures, septic, bluff, and sidelots in Aitkin County.

Protected Waters Type (DNR Classification; SMO 4.13-4.14)	Required Structure Setback	Score Multiplier Structures	Required Septic Setback	Score Multiplier Septic	Score Multiplier Bluff	Score Multiplier Sidelot
General Development Lake	75'	1.333	75'	1.333	(30' setback)	(10' setback)
Recreational Development Lake	100'	1.000	75'	1.333	3.33	10.000
Natural Environment Lake	150'	0.667	150'	0.667		
Mississippi River	150'	0.667	125'	0.800		
Tributary Stream	100'	1.000	75'	1.333		
Forested Stream	150'	0.667	100'	1.000		
Remote Stream	200'	0.500	150'	0.667		

Mitigation: To bring a non-conforming structure to a score of 100 the landowner conducts and maintains one or more of the below listed mitigating activities:

- | | |
|---|------------------------------------|
| A) Zone A(1): Plant and/or maintain a 12.5' wide natural vegetated buffer zone adjacent to the OHW and record deed restrictions to maintain vegetation in its natural state, prohibit mowing or vegetation removal.* Water access as defined in the Shoreland Management Ordinance is allowed (Section 5.31.B.2.c)..... | 15 points |
| Zone A(2): Plant and/or maintain a 25' wide natural vegetated buffer zone adjacent to the OHW and record deed restrictions to maintain vegetation in its natural state, prohibit mowing or vegetation removal.* Water access as defined in the Shoreland Management Ordinance is allowed (Section 5.31.B.2.c)..... | 30 points |
| B) Zone B: Plant and/or maintain an <u>additional</u> 12.5' wide natural vegetated buffer zone between Zone A landward. Record deed restrictions to maintain vegetation in its natural state, prohibit mowing or vegetation removal.* A ten-foot (10') access path is allowed. | 20 points |
| C) Zone C: Plant and/or maintain an <u>additional</u> 12.5' wide natural vegetated buffer zone between Zone B landward. Record deed restrictions to maintain vegetation in its natural state, prohibit mowing or vegetation removal.* A ten-foot (10') access path is allowed. | 10 points |
| D) Construction of rain garden(s) to Wisconsin DNR Manual specifications..... | 20 points |
| E) Removal of <u>all</u> other structures that do not meet the standard building setbacks, including water oriented structures..... | 20 points |
| F) Removal of impervious surfaces to at least half ordinance limits (SMO 5.52.A) | 10 points |
| G) Removal of fill all placed in historic wetlands and guarantee of no future wetland fill recorded on deed | 10 points |
| H) Re-vegetate bluff or steep slopes* <u>and</u> provide screening of structures from the lake. | 10 points |
| I) Diversion of all water runoff from impervious surfaces away from the lake into retention ponds, subsurface drains, wetlands, etc. with no outlet to the lake or tributary | 10 points |
| J) Existing conditions may apply on the property that warrant credit..... | <i>To be determined by P&Z</i> |

Final Score = Pre-mitigation Lot Score (Line 5) 29 + Mitigation Totals (Lines A-I) 20 = 49

*Note: Plant materials for vegetative buffers shall be native to northern Minnesota. For every 5,000 square feet of buffer area, there shall be a minimum of four types of trees, six types of shrubs, seven forbs, and three grasses planted to achieve a one plant per square foot minimum coverage. Survival of all plants must be guaranteed for a minimum of 5 years

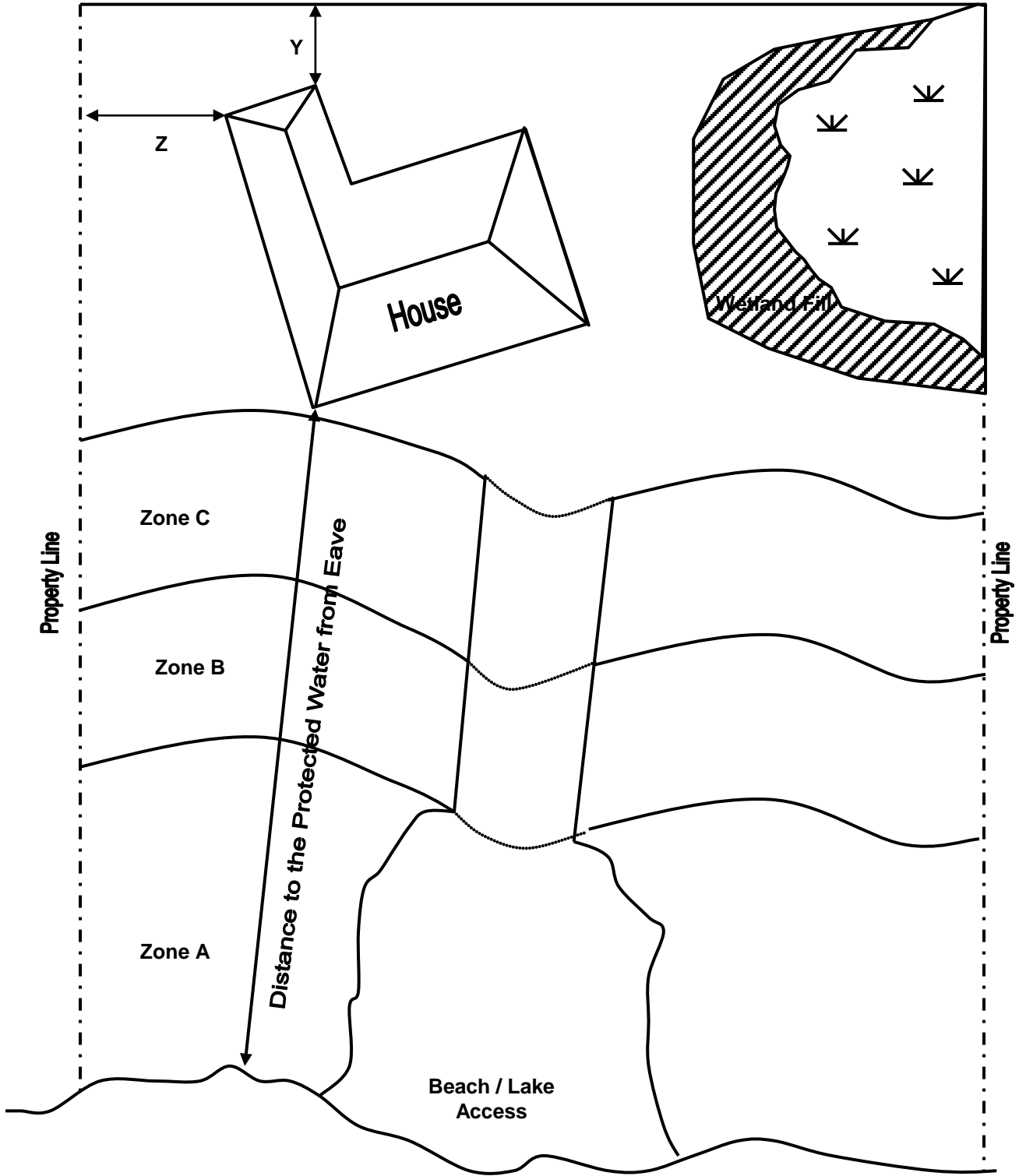
Ania S. Wyant

Board of Adjustment Chairperson

Applicant

AITKIN COUNTY SHORELAND PERFORMANCE
(Example)

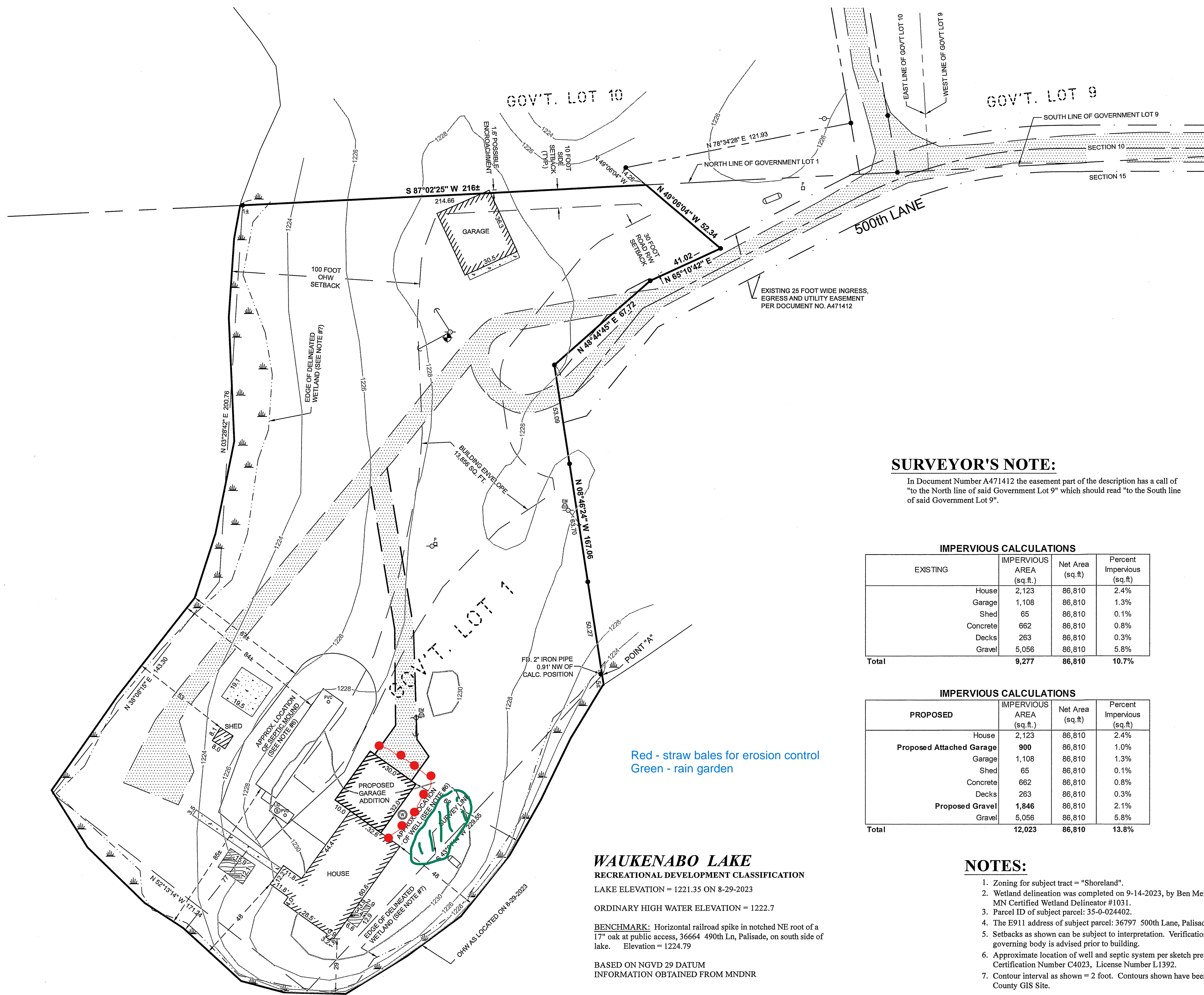
Road right-of-way (ROW)



Recreational Development Lake (RD)

CERTIFICATE OF SURVEY

PART OF GOVERNMENT LOT 1,
SECTION 15, TOWNSHIP 49 NORTH, RANGE 26 WEST,
AITKIN COUNTY, MINNESOTA
AREA = 86,810 SQ. FT. ± / 2.0 ACRES ±



LEGAL DESCRIPTION PER DOCUMENT A471412

That part of Government Lot 1, Section 15, Township 49 North, Range 26 West, Aitkin County, Minnesota, lying Westerly of the following described line: Commencing at the certified concrete monument marking the Northwest corner of Section 10, Township 49 North, Range 26 West, said county, and assuming the North line of said Section 10 bears North 89 degrees 04 minutes 17 seconds East as measured between the Northwest and Northeast corners of said Section 10; thence South 15 degrees 23 minutes 45 seconds East 5537.70 feet to an iron pipe monument hereinafter referred to as Point "A"; thence South 08 degrees 46 minutes 24 seconds East 24 feet, more or less, to the shoreline of Waukenabo Lake and point of beginning of the line to be herein described; thence North 08 degrees 46 minutes 24 seconds West 24 feet, more or less, to said Point "A"; thence North 08 degrees 46 minutes 24 seconds West 167.06 feet to an iron pipe monument; thence North 48 degrees 44 minutes 45 seconds East 67.72 feet to an iron pipe monument; thence North 65 degrees 10 minutes 42 seconds East 41.02 feet to an iron pipe monument; thence North 49 degrees 06 minutes 04 seconds West 52.34 feet, more or less, to an iron pipe monument on the North line of said Government Lot 1 and said described line there terminating.

TOGETHER WITH

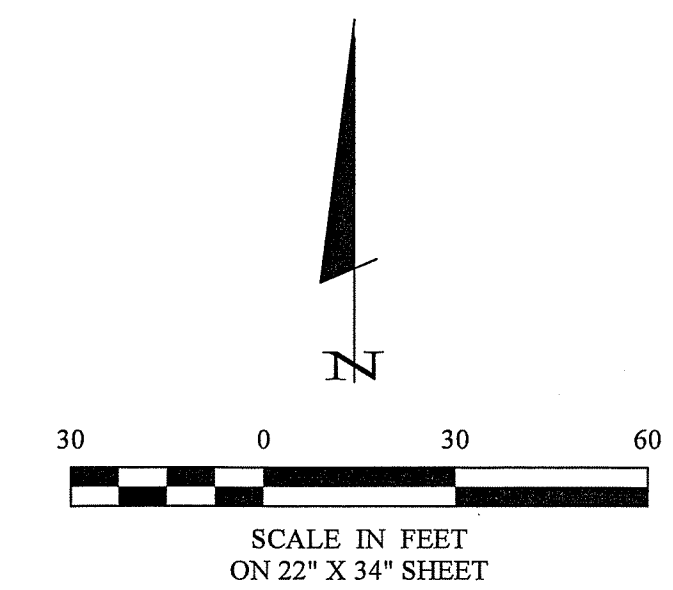
A permanent, non-exclusive 25.00 foot wide easement for ingress, egress and utility purposes over, under and across that part of Government Lot 9 and Government Lot 10, Section 10, and that part of Government Lot 1, Section 15, all in Township 49 North, Range 26 West, Aitkin County, Minnesota, the centerline of said easement is described as follows: Commencing at the certified concrete monument marking the Northwest corner of said Section 10 and assuming the North line of said Section 10 bears North 89 degrees 04 minutes 17 seconds East as measured between the Northwest and Northeast corners of said Section 10; thence South 15 degrees 23 minutes 45 seconds East 5537.70 feet to an iron monument; thence North 08 degrees 46 minutes 24 seconds West 148.71 feet to the point of beginning of the centerline to be herein described; thence North 74 degrees 02 minutes 54 seconds East 7.36 feet; thence North 38 degrees 50 minutes 14 seconds East 59.03 feet; thence North 62 degrees 23 minutes 57 seconds East 127.82 feet; thence Northeasterly 113.03 feet along a tangential curve concave to the Southeast having a radius of 235.11 feet and a central angle of 27 degrees 32 minutes 40 seconds; thence North 89 degrees 56 minutes 37 seconds East 324.20 feet; thence North 83 degrees 32 minutes 14 seconds East tangent to said curve 93.87 feet; thence Northeasterly 23.50 feet along a tangential curve concave to the Northwest having a radius of 288.82 feet and a central angle of 04 degrees 39 minutes 41 seconds, more or less, to the North line of said Government Lot 9 and said described centerline there terminating.

Aitkin County, Minnesota
(Abstract)

LEGEND

- DENOTES EDGE OF EXISTING GRAVEL
- DENOTES EDGE OF EXISTING CONCRETE
- DENOTES EDGE OF EXISTING WOODEN DECKING
- DENOTES WET LAND(S)
- DENOTES EXISTING UTILITY POLE W/ GUY WIRE
- DENOTES EXISTING ELECTRIC METER
- DENOTES EXISTING LP TANK
- DENOTES EXISTING SEPTIC VENT, SEPTIC CLEANOUT, & SEPTIC TANK LID
- BENCHMARK:** SET IRON ROD IN SW FACE OF POWER POLE
- ELEV. = 1228.65 BASED ON NGVD 29 DATUM
- DENOTES MONUMENT FOUND

ORIENTATION OF THIS BEARING SYSTEM IS BASED ON THE NORTH LINE OF GOVERNMENT LOT 1 TO HAVE AN ASSUMED BEARING OF S 87°02'25" W.



SURVEYOR'S NOTE:

In Document Number A471412 the easement part of the description has a call of "to the North line of said Government Lot 9" which should read "to the South line of said Government Lot 9".

IMPERVIOUS CALCULATIONS

EXISTING	IMPERVIOUS AREA (sq.ft.)	Net Area (sq.ft.)	Percent Impervious (sq.ft.)
House	2,123	86,810	2.4%
Garage	1,108	86,810	1.3%
Shed	65	86,810	0.1%
Concrete	662	86,810	0.8%
Decks	263	86,810	0.3%
Gravel	5,056	86,810	5.8%
Total	9,277	86,810	10.7%

IMPERVIOUS CALCULATIONS

PROPOSED	IMPERVIOUS AREA (sq.ft.)	Net Area (sq.ft.)	Percent Impervious (sq.ft.)
House	2,123	86,810	2.4%
Proposed Attached Garage	900	86,810	1.0%
Garage	1,108	86,810	1.3%
Shed	65	86,810	0.1%
Concrete	662	86,810	0.8%
Decks	263	86,810	0.3%
Proposed Gravel	1,846	86,810	2.1%
Gravel	5,056	86,810	5.8%
Total	12,023	86,810	13.8%

NOTES:

- Zoning for subject tract = "Shoreland".
- Wetland delineation was completed on 9-14-2023, by Ben Meister, Meister Environmental, LLC. MN Certified Wetland Delineator #1031.
- Parcel ID of subject parcel: 35-0-024402.
- The E911 address of subject parcel: 36797 500th Lane, Palisade.
- Setbacks as shown can be subject to interpretation. Verification of setbacks by the governing body is advised prior to building.
- Approximate location of well and septic system per sketch prepared by Charles J. Virginia, Certification Number C4023, License Number L1392.
- Contour interval as shown = 2 foot. Contours shown have been digitized from the Aitkin County GIS Site.

WAUKENABO LAKE

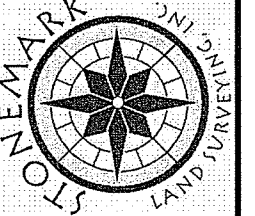
RECREATIONAL DEVELOPMENT CLASSIFICATION
LAKE ELEVATION = 1221.35 ON 8-29-2023

ORDINARY HIGH WATER ELEVATION = 1222.7

BENCHMARK: Horizontal railroad spike in notched NE root of a 17" oak at public access, 36664 490th Ln, Palisade, on south side of lake. Elevation = 1224.79

BASED ON NGVD 29 DATUM
INFORMATION OBTAINED FROM MNDNR

30206 Rasmussen Road
Suite 1
P. O. Box 874
Pequot Lakes, MN 56472
218-568-0940
www.stonemarksurvey.com



HEREBY CERTIFY THAT THIS SURVEY PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.
Cynthia M. Hildebrand
9/26/2023
LIC. NO. 44881

REVISIONS	DATE	DESCRIPTION

DATE: 9-26-2023
SCALE: 1"=30'
HORIZ. NONE
VERT. NONE

PROJECT NO.: 23229
FILE NAME: C23229.dwg
FIELD BOOK:

CHECKED BY: PAT
DRAWN BY: RUF

CERTIFICATE OF SURVEY
Anita Wyant
9883 Belmont Drive
Lenexa, KS 66227

SHEET 1 OF 1

1 OF 1

EROSION CONTROL PLAN CHECKLIST

**Check the box if completed (leave empty if not applicable).
All items checked must be included on the site diagram.**

Site Characteristics

- North arrow, scale, and site boundary. Indicate and name adjacent streets or roadways.
- Location of existing drainageways, streams, rivers, lakes, wetlands or wells.
- Location of storm sewer inlets.
- Location of existing and proposed buildings and paved areas.
- The disturbed area on the lot.
- Approximate gradient and direction of slopes before grading operations.
- Approximate gradient and direction of slopes after grading operations.
- Overland runoff (sheet flow) coming onto the site from adjacent areas.

Erosion Control Practices

- Location of temporary soil storage piles.
Note: Soil storage piles should be placed behind a sediment fence, a 10 foot wide vegetative strip, or should be covered with a tarp or more than 25 feet from any downslope road or drainageway.
- Location of access drive(s) (driveways, turnarounds, approaches, etc.)
- Location of sediment controls (filter fabric fence, straw bale fence or 10-foot wide vegetative strip) that will prevent eroded soil from leaving the site.
- Location of sediment barriers around on-site storm sewer inlets.
- Location of diversions.
Note: Although not specifically required by code, it is recommended that concentrated flow (drainageways) be diverted (re-directed) around disturbed areas. Overland runoff (sheet flow) from adjacent areas greater than 10,000 sq. ft. should also be diverted around disturbed areas.
- Location of practices that will be applied to control erosion on steep slopes (greater than 12% grade).
Note: Such practices include maintaining existing vegetation, placement of additional sediment fences, diversions, and re-vegetation by sodding or seeding with use of erosion control mats.
- Location of practices that will control erosion on areas of concentrated runoff flow.
Note: Unstabilized drainageways, ditches, diversions, and inlets should be protected from erosion through use of such practices as in-channel fabric or straw bale barriers, erosion control mats, staked sod, and rock rip-rap. When used, a given in-channel barrier should not receive drainage from more than two acres of unpaved area, or one acre of paved area. In-channel practices should not be installed in perennial streams (streams with year round flow).
- Location of other planned practices not already noted.

**Check the box if completed (leave empty if not applicable).
All items checked must be included on the site diagram.**

Management Strategies

- Temporary stabilization of disturbed areas. - if necessary
Note: It is recommended that disturbed areas and soil piles left inactive for extended periods of time be stabilized by seeding (between April 1 and September 15), or by other cover, such as tarping or mulching.
- Permanent stabilization of site by re-vegetation or other means as soon as possible (lawn establishment).
- Indicate re-vegetation method: (Circle one of the following) Seed Sod
Other _____
 - Expected date of permanent re-vegetation: _____
 - Re-vegetation responsibility of: (Circle one of the following) Builder Owner/Buyer
soil excavated would be used to fill around the garage immediately following the completion of the garage and the addition of a rain garden
 - Is temporary seeding or mulching planned if site is not seeded by Sept. 15 or sodded by Nov. 15? (Circle one of the following) Yes No
- Use of downspout and/or sump pump outlet extensions.
Note: It is recommended that flow from downspouts and sump pump outlets be routed through plastic drainage pipe to stable areas such as established sod or pavement.
- Trapping sediment during de-watering operations.
Note: Sediment-laden discharge water from pumping operations should be ponded behind a sediment barrier until most of the sediment settles out.
- Proper disposal of building material waste so that pollutants and debris are not carried off-site by wind or water.
- Maintenance of erosion control practices.
- Sediment will be removed from behind sediment fences and barriers before it reaches a depth that is equal to half the height of the barrier.
 - Breaks and gaps in sediment fences and barriers will be repaired immediately. Decomposing straw bales will be replaced (typical bale life is three months).
 - All sediment that moves off-site due to construction activity will be cleaned up before the end of the same workday.
 - All sediment that moves off-site due to storm events will be cleaned up before the end of the next workday.
 - Access drives will be maintained throughout construction.
 - All installed erosion control practices will be maintained until the disturbed areas they protect are stabilized.

PART VII: STANDARD EROSION CONTROL PLAN

According to Aitkin County's Shoreland Management Ordinance, soil erosion control information needs to be included on the site plan which is submitted and approved prior to the issuance of zoning permits. The Standard Erosion Control Plan is provided to assist in meeting this requirement.

Instructions:

1. Complete this plan by filling in requested information, completing the site diagram and marking appropriate boxes on the inside of this form.
2. In completing the site diagram, give consideration to potential erosion that may occur before, during and after grading. Water runoff patterns can change significantly as a site is reshaped.
3. A cross section sheet is required for walkout basements and excavations into hillsides for determining volume of fill to be excavated.

Project Location 36797 500th Lane Palisade 56469

Builder Jason Price Owner Maria Cuzzo

Worksheet Completed By Ania Wyant Date 03/01/2024

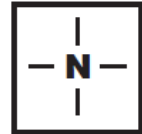
Amount of earthen material to be excavated and/or used for fill 30 cubic yards.

SITE DIAGRAM

Scale 1 inch = _____ feet

Please indicate north by completing the arrow.

[See attached site diagram pdf](#)



EROSION CONTROL PLAN LEGEND

- PROPERTY LINE
- > EXISTING DRAINAGE
- > TD TEMPORARY DIVERSION
- > FINISHED DRAINAGE
- - - LIMITS OF GRADING
- SILT FENCE
- STRAW BALES
- ▣ GRAVEL
- ① VEGETATION SPECIFICATION
- ▣ TREE PRESERVATION
- ▣ STOCKPILED SOIL



396295

FILED SEP 16 '09 AT 7:11 AM

Diane M. Lafferty, County Recorder

NO DELINQUENT TAXES AND TRANSFER ENTERED

This 16 Day Sept 2009

Kirk Peysar

County Auditor

Elizabeth Harmon Deputy

CERTIFICATE OF REAL ESTATE VALUE () FILED (X) NOT REQUIRED CERTIFICATE OF REAL ESTATE VALUE NO _____

AITKIN COUNTY DEED TAX No 65 Date 9-16-09 1.65 Dollars Paid Lois Grams County Treasurer

By Blake Deputy

Miller/Davis Company

© - Minneapolis, MN - (612) 312-1570

Minnesota Uniform Conveyancing Blanks

Form 10.3.1 (2006) (27-M)

QUIT CLAIM DEED

Individual(s) to Individual(s)

(Top 3 inches reserved for recording data)

DEED TAX DUE: \$ 1.65

DATE: September 14, 2009 (month/day/year)

FOR VALUABLE CONSIDERATION, Melinda D. Betley and Trevor J. Betley, wife and husband (insert name and marital status of each Grantor)

hereby conveys and quitclaims to Maria Stalzer Wyant Cuzzo a/k/a Maria Wyant Cuzzo (insert name of each Grantee)

in Aitkin County, Minnesota, legally described as follows:

See Exhibit "A" attached hereto for legal description.

Consideration less than \$500.00.

Check here if all or part of the described real property is Registered (Torrens) together with all hereditaments and appurtenances.

Check applicable box:

- The Seller certifies that the Seller does not know of any wells on the described real property.
A well disclosure certificate accompanies this document.
I am familiar with the property described in this instrument and I certify that the status and number of wells on the described real property have not changed since the last previously filed well disclosure certificate.

Grantor

Melinda D. Betley (signature) Melinda D. Betley

Trevor J. Betley (signature) Trevor J. Betley

WARNING: UNAUTHORIZED COPYING OF THIS FORM PROHIBITED.

State of Minnesota, County of Aitkin



CUZZO FIRST DEED-p0001 - p00...



Done

any wells on the described real property.

A well disclosure certificate accompanies this document.

I am familiar with the property described in this instrument and I certify that the status and number of wells on the described real property have not changed since the last previously filed well disclosure certificate.

Melinda D. Betley
(signature) Melinda D. Betley

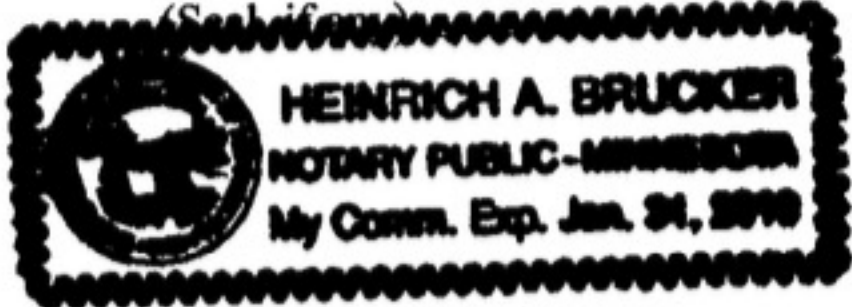
Trevor J. Betley
(signature) Trevor J. Betley

WARNING: UNAUTHORIZED COPYING OF THIS FORM PROHIBITED. Page 1

Page 2 Minnesota Uniform Conveyancing Blanks Form 10.3.1

State of Minnesota, County of Aitkin

This instrument was acknowledged before me on September 14, 2009, by Melinda D. Betley and Trevor J. Betley, wife and husband
(month/day/year)
(insert name and marital status of each Grantor)



Heinrich A. Brucker
(signature of notarial officer) Heinrich A. Brucker
Title (and Rank): Notary Public

My commission expires: 01/31/2010
(month/day/year)

TAX STATEMENTS FOR THE REAL PROPERTY DESCRIBED IN THIS INSTRUMENT SHOULD BE SENT TO:
(insert name and address of Grantee to whom tax statements should be sent)

Ms. Maria Wyant Cuzzo
102 East Calvary Road
Duluth, MN 55803

THIS INSTRUMENT WAS DRAFTED BY:
(insert name and address)

Heinrich A. Brucker
Ryan Ryan & Brucker
201 Minnesota Avenue North
P.O. Box 388
Aitkin, MN 56431-
218-927-2136
Atty. Reg. No. 025695X (080110)

WARNING: UNAUTHORIZED COPYING OF THIS FORM PROHIBITED.





5 of 5

2

F:\RE\Wyant\Exhibit A Maria (080110) mdb

*Byron, Lynn + Buckles
Aitkin, MN 56431*

*4/16/08
p*

**RECURRING
TRACT MODEL
GRANTOR
GRANTEE
CONVEYANCE**

*9-16-9
1
2*

**OFFICE OF COUNTY RECORDER
AITKIN COUNTY, MN
 WELL CERTIFICATE RECEIVED
 WELL CERTIFICATE NOT REQUIRED**

**COUNTY RECORDER
AITKIN COUNTY, MINNESOTA
FILED**

SEP 16 2009 9AM

Diana M. Coffey
As Doc. No.

396295



**EXHIBIT A**

That part of Government Lot 1, Section 15, Township 49 North, Range 26 West, Aitkin County, Minnesota, lying Westerly of the following described line:

Commencing at the certified concrete monument marking the Northwest corner of Section 10, Township 49 North, Range 26 West, said county, and assuming the North line of said Section 10 bears North 89 degrees 04 minutes 17 seconds East as measured between the Northwest and Northeast corners of said Section 10; thence South 15 degrees 23 minutes 45 seconds East 5537.70 feet to an iron pipe monument hereinafter referred to as Point "A"; thence South 08 degrees 46 minutes 24 seconds East 24 feet, more or less, to the shoreline of Waukenabo Lake and point of beginning of the line to be herein described; thence North 08 degrees 46 minutes 24 seconds West 24 feet, more or less, to said Point "A"; thence North 08 degrees 46 minutes 24 seconds West 167.06 feet to an iron pipe monument; thence North 48 degrees 44 minutes 45 seconds East 67.72 feet to an iron pipe monument; thence North 65 degrees 10 minutes 42 seconds East 41.02 feet to an iron pipe monument; thence North 49 degrees 06 minutes 04 seconds West 52.34 feet, more or less, to an iron pipe monument on the North line of said Government Lot 1 and said described line there terminating.

AND

That part of the South 813.00 feet of Government Lot 10, Section 10, Township 49 North, Range 26 West, Aitkin County, Minnesota, lying Westerly of a line as measured parallel with and 20.00 feet Westerly of the following described line:

Commencing at the certified concrete monument marking the Northwest corner of said Section 10 and assuming the North line of said Section 10 bears North 89 degrees 04 minutes 17 seconds East as measured between the Northwest and Northeast corners of said Section 10; thence South 15 degrees 23 minutes 45 seconds East 5537.70 feet to an iron pipe monument; thence North 08 degrees 46 minutes 24 seconds West 167.06 feet to an iron pipe monument; thence North 48 degrees 44 minutes 45 seconds East 67.72 feet to an iron pipe monument; thence North 65 degrees 10 minutes 42 seconds East 41.02 feet to an iron pipe monument; thence North 49 degrees 06 minutes 04 seconds West 52.34 feet, more or less, to an iron pipe monument on the South line of said Government Lot 10; thence North 87 degrees 02 minutes 25 seconds East along said South line of Government Lot 10 for a distance of 133.66 feet to an iron pipe monument and point of beginning of the line to be herein described; thence North 09 degrees 32 minutes 37 seconds West 30.99 feet to an iron pipe monument; thence North 09 degrees 37 minutes 09 seconds West 82.93 feet to an iron pipe monument; thence North 01 degree 33 minutes 35 seconds West 144.17 feet to an iron pipe monument; thence North 00 degrees 53 minutes 41 seconds West 206.60 feet to an iron pipe monument; thence North 02 degrees 04 minutes 33 seconds West 289.20 feet to an iron pipe monument; thence North 01 degree 26 minutes 36 seconds West 60.00 feet, more or less, to an iron pipe monument on the North line of the South 813.00 feet of said Government Lot 10 and said described line there terminating.

EXCEPT

That part of Government Lot 10, Section 10, Township 49 North, Range 26 West, Aitkin County, Minnesota, described as follows:

1

F:\RE\Wyant\Exhibit A Maria (080110) mdb

Commencing at the certified concrete monument marking the Northwest corner of said Section 10 and assuming the North line of said Section 10 bears North 89 degrees 04 minutes 17 seconds East as measured between the Northwest and Northeast corners of said Section 10; thence South



F:\RE\Wyant\Exhibit A Maria (080110) mdb

Commencing at the certified concrete monument marking the Northwest corner of said Section 10 and assuming the North line of said Section 10 bears North 89 degrees 04 minutes 17 seconds East as measured between the Northwest and Northeast corners of said Section 10; thence South 15 degrees 23 minutes 45 seconds East 5537.70 feet to an iron pipe monument; thence North 08 degrees 46 minutes 24 seconds West 167.06 feet to an iron pipe monument; thence North 48 degrees 44 minutes 45 seconds East 67.72 feet to an iron pipe monument; thence North 65 degrees 10 minutes 42 seconds East 41.02 feet to an iron pipe monument; thence North 49 degrees 06 minutes 04 seconds West 52.34 feet, more or less, to an iron pipe monument on the South line of said Government Lot 10 and point of beginning of the tract to be herein described; thence North 49 degrees 06 minutes 04 seconds West 14.27 feet to an iron pipe monument; thence North 78 degrees 34 minutes 28 seconds East 121.93 feet to an iron pipe monument; thence South 09 degrees 32 minutes 37 seconds East 28.02 feet, more or less, to an iron pipe monument on said South line; thence South 87 degrees 02 minutes 25 seconds West along said South line 113.53 feet, more or less, to the point of beginning.

TOGETHER WITH

A permanent, non-exclusive 25.00 foot wide easement for ingress, egress and utility purposes over, under and across that part of Government Lot 9 and Government Lot 10, Section 10, and that part of Government Lot 1, Section 15, all in Township 49 North, Range 26 West, Aitkin County, Minnesota, the centerline of said easement is described as follows:

Commencing at the certified concrete monument marking the Northwest corner of said Section 10 and assuming the North line of said Section 10 bears North 89 degrees 04 minutes 17 seconds East as measured between the Northwest and Northeast corners of said Section 10; thence South 15 degrees 23 minutes 45 seconds East 5537.70 feet to an iron monument; thence North 08 degrees 46 minutes 24 seconds West 148.71 feet to the point of beginning of the centerline to be herein described; thence North 74 degrees 02 minutes 54 seconds East 7.36 feet; thence North 38 degrees 50 minutes 14 seconds East 59.03 feet; thence North 62 degrees 23 minutes 57 seconds East 127.82 feet; thence Northeasterly 113.03 feet along a tangential curve concave to the Southeast having a radius of 235.11 feet and a central angle of 27 degrees 32 minutes 40 seconds; thence North 89 degrees 56 minutes 37 seconds East 324.20 feet; thence North 83 degrees 32 minutes 14 seconds East tangent to said curve 93.87 feet; thence Northeasterly 23.50 feet along a tangential curve concave to the Northwest having a radius of 288.82 feet and a central angle of 04 degrees 39 minutes 41 seconds, more or less, to the North line of said Government Lot 9 and said described centerline there terminating.

AND

The Northeast Quarter of the Northeast Quarter (NE $\frac{1}{4}$ of NE $\frac{1}{4}$) and that part of the Northwest Quarter of the Northeast Quarter (NW $\frac{1}{4}$ of NE $\frac{1}{4}$) which lies East of Highway No. 169 of Section Fourteen (14), Township Forty-nine (49), Range Twenty-six (26), located in the County of Aitkin, State of Minnesota.

F:\RE\Wyant\Exhibit A Maria (080110) mdb



Property Location

Property:	Property Location			Legal Description			Property Attributes		Owner Information	Tax Payer Information
	Parcel Number	Property Address	Township or City Name	Legal Description	Plat Name	Section-Township-Range	Lake Class	Lake Name	Owner Name(s)	Taxpayer Name(s)
	24-1-086400	32681 355th Ave AITKIN, MN 56431	NORLAND TWP	LOT 9 BLK 2 & PT VACATED RD IN DOC 453228 (MUST NOT BE SOLD SEPARTELY FROM 24-0- 021413)	ALLIES DUCK PASS	S:11 T:46 R:26	RD	WLADIMIRAF LAKE	ANDERSON, BRYON & MARCIA	ANDERSON, BRYON & MARCIA
Driving directions to the proposed project from Aitkin:	Take 47 South toward Glen. Turn right on to county road 17. Take another right on 355av(approximately 4 miles) 32681 is on your right just over slight rise									
Is the above parcel located in the Shoreland Zoning District?	<u>Yes</u>									

Detailed Narrative

<p>Enter a Detailed Narrative (If you have a prepared narrative please state "See attached" and attach the document below):</p>	<p>12 x 24 addition to house and 24x38 garage. Whole house does not meet lake setback. Existing breezeway and garage are in disrepair .</p>
<p>Attach prepared narrative here:</p>	<p>File 1: Anderson_siteplan1.pdf</p>
<p>Provide the Ordinance(s) and the Section(s) of the Ordinance(s) from which you are requesting a variance:</p>	<p>Shore land Mngt 5.21 and 6.0</p>
<p>Are you requesting a variance to a road right-of-way setback in one of these Townships? Fleming, Glen, Lakeside, Pliny, Shamrock, Wagner</p>	<p><u>No</u></p>

Supplemental Data

<p>Attach completed form here:</p>	<p>File 1: Anderson_SupDatasheet.pdf</p>
------------------------------------	--

A Scaled Drawing or Survey

<p>Scaled Drawing or Survey Checklist:</p>	<p><u>Location and dimensions for all lot lines.</u> <u>Location and dimensions of all existing and proposed structures/additions.</u></p>
<p>Attach a Scaled Drawing or Survey:</p>	<p>File 1: Survey_2023.pdf</p>

Side Profile Sketch of the Structure

Attach a side profile sketch of your proposed structure or addition here (if applicable):	File 1: Anderson_siteplan1.pdf
---	--

Certificate of Septic Compliance

Please attach a copy of one of the following: - A current compliance inspection on the existing septic system. - A design for a new/replacement septic system.	File 1: Compliance_Report_3-13-20231-_Bryon_Anderson_SSTS.pdf
--	---

Shoreland Performance Worksheet

Complete the Shoreland Performance Worksheet and attach here:	File 1: Anderson_ShorePerformancesheet.pdf
---	--

Standard Erosion Control Plan

Attach the completed Standard Erosion Control Plan here:	File 1: Anderson_ErosionControlsheet.pdf
--	--

Property Deed

Attach the property deed(s):	File 1: DEED_-_B._ANDERSON.pdf
------------------------------	--

Terms

General Terms

<p>The landowner or authorized agent hereby certifies that to the best of their knowledge the application and supporting documents are a factual representation of the proposed project. The landowner or authorized agent agrees that, in making application, the landowner grants permission to Aitkin County, at reasonable times, to enter the property to determine compliance of the application with applicable Local, County or State Ordinances or Statutes. It is the applicant's responsibility to contact other Local, County or State agencies to ensure the applicant has complied with all relevant Local, County or State Ordinances or Statutes.</p>
<p>Submittal of the above materials does not always constitute a complete application. Other information may be necessary to complete the application based on the type of request and onsite inspection.</p>
<p>I acknowledge that by submitting this application, the application and its attachments are public information.</p>

Invoice #59840 (03/07/2024) Expected Payment Method: Pay Online - Card or ECheck

Charge	Cost	Quantity	Total
Recording Fee added 03/06/2024 3:50 PM \$46 Flat Fee	\$46.00	x 1	\$46.00
Variance added 03/06/2024 3:50 PM \$650 Flat Fee	\$650.00	x 1	\$650.00
Grand Total			
		Total	\$696.00
		Payment 03/07/2024	\$696.00
		Due	\$0.00

Approvals

Approval	Signature
Applicant	Bryon J. Anderson - 03/07/2024 9:17 AM 490eb08d4e8714cf4e1fea47c268bf6c a765cbfb58fc06067fa701853aaae6c6
#1 Admin	Kim Burton - 03/08/2024 11:19 AM 2427d28a92ac83cb193087a48eddaf30 f010da2080ba2c20163b3bffa6e63301
#2 Board of Adjustment	

Public Notes

Text:	<div style="border: 1px solid gray; height: 300px; width: 100%;"></div>
File(s):	<div style="border: 1px dashed gray; height: 30px; width: 100%;"></div>

Admin Checklist

This review has been started by:	<input type="text" value="Kim Burton"/>
Zoning District of project location:	<input type="text" value="Shoreland"/>

Project located in the floodplain?	No <input type="button" value="v"/>
Is the parcel a Lot of Record before 1-21-92 or have alternate sites been identified?	Yes <input type="button" value="v"/>
Is this an after-the-fact application?	No <input type="button" value="v"/>

Numbers

	Current Number	Next from Sequence
UID #	210427	<i>not applicable</i>
App. #	<input type="text" value="App-2024-000717"/>	<input type="button" value="««"/> App-2024-000744
Permit #	<input type="text"/>	<input type="button" value="««"/> 2024-0097

Print View

PART I: SUPPLEMENTAL DATA TO VARIANCE APPLICATION

Aitkin County Environmental Services
307 Second St. NW, Room 219, Aitkin, MN 56431
Phone: 218.927.7342 Fax: 218.927.4372
www.co.aitkin.mn.us

Note: Place an "X" by each item below that applies to your variance 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.

- Setback issues for a proposed new structure: **Complete Section 1**
- Setback issues for an alteration to an existing nonconforming structure: **Complete Section 2**
- Setback issues for a septic system: **Complete Section 3**
- Land alteration: **Complete Section 4**
- Creating a lot not in conformance with the minimum Ordinance standards: **Complete Section 5**
- Other: attach separate sheet explaining variance request

Section 1 – New Structure(s)

Check all that apply and fill in requested information:

- | | |
|---|--|
| <input type="checkbox"/> Basement | <input type="checkbox"/> One Story Level |
| <input type="checkbox"/> Crawlspace | <input type="checkbox"/> Story-and-a-Half Level |
| <input type="checkbox"/> Walk-out Basement | <input type="checkbox"/> 2 nd Story Level |
| Proposed # of Bedrooms _____ | Proposed Structure Height _____ ft. |
| Existing Total Building Coverage _____% | Proposed Total Building Coverage _____% |
| Existing Total Impervious Surface Coverage _____% | Proposed Total Impervious Surface Coverage _____% |

"Building Coverage" means the ground surface covered by any building or appurtenance, including, but not limited to, decks, platforms, overhangs and projections therefrom, outdoor furnaces, fishhouses, sheds, carports, lean-to's, or any similar building. –as per the Aitkin County Shoreland Management Ordinance.

"Impervious surface coverage" means any structure, facility or surface that sheds water including structures and facilities, sewage treatment system absorption areas (equal to 190 sq.ft./bedroom), retaining walls, and roadway surfaces and parking areas. Impervious surface does not include eaves of two feet and less. – Per the Aitkin Count Shoreland Management Ordinance.

Itemized square footage of proposed structure(s):

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.

Proposed Alteration Type _____

<input checked="" type="checkbox"/> Ordinary High Water Level (OHWL)	Existing Setback <u>100</u> ft.	Proposed Setback <u>60</u> ft.
<input type="checkbox"/> Property Line	Existing Setback _____ ft.	Proposed Setback _____ ft.
<input type="checkbox"/> Road Right-of way __ Twp __ Co. __ State	Existing Setback _____ ft.	Proposed Setback _____ ft.
<input type="checkbox"/> Bluff	Existing Setback _____ ft.	Proposed Setback _____ ft.
<input type="checkbox"/> Other: _____	Existing Setback _____ ft.	Proposed Setback _____ ft.

Section 3 – Septic System

Check the item(s) from which you are requesting a variance and fill in the proposed setback distance.

<input type="checkbox"/> Ordinary High Water Level (OHWL)	Proposed Setback _____ ft.
<input type="checkbox"/> Property Line	Proposed Setback _____ ft.
<input type="checkbox"/> Road Right-of way __ Twp __ Co. __ State	Proposed Setback _____ ft.
<input type="checkbox"/> Bluff	Proposed Setback _____ ft.
<input type="checkbox"/> Other: _____	Proposed Setback _____ ft.

Section 4 – Land Alteration

What is your land alteration? Check all categories that apply and indicate the total amount of excavation or placement of fill.

<input type="checkbox"/> More than 10 cubic yards on steep slopes and shore and bluff impact zones.	Total Cubic Yds. _____
<input type="checkbox"/> Other: _____	Total Cubic Yds. _____

Section 5 – Creating Nonconforming Lot(s)

Check the item(s) from which you are requesting a variance and fill in the proposed dimensions.

<input type="checkbox"/> Property Width	Proposed Property Width _____
<input type="checkbox"/> Property Area	Proposed Property Area _____
<input type="checkbox"/> (2) Standard Septic Sites	
<input type="checkbox"/> Legal Access	

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.

Proposed Structure Type (indicate with or without living quarters) _____

____ Ordinary High Water Level (OHWL)	Proposed Setback _____ ft.
____ Property Line	Proposed Setback _____ ft.
____ Road Right-of way __ Twp __ Co. __ State	Proposed Setback _____ ft.
____ Bluff	Proposed Setback _____ ft.
____ Other: _____	Proposed Setback _____ ft.

Section 2 – Alteration(s) to Existing Nonconforming Structure(s)

Check all that apply and fill in requested information:

Existing Structure

Basement
 Crawlspace
 Walk-out Basement
 One Story Level
 Story-and-a-Half Level
 2nd Story Level

Proposed Addition(s)

Basement
 Crawlspace
 Walk-out Basement
 One Story Level
 Story-and-a-Half Level
 2nd Story Level

Existing Structure Height 14 ft.

Proposed Addition(s) Height 16 ft.

Existing # of Bedrooms 2

Final # of bedrooms after remodel 2

Existing Building Coverage 11 %

Proposed Building Coverage 12 %

Existing Total Impervious Surface Coverage 16 %

Proposed Total Impervious Surface Coverage 17 %

"Building Coverage" means the ground surface covered by any building or appurtenance, including, but not limited to, decks, platforms, overhangs and projections therefrom, outdoor furnaces, fishhouses, sheds, carports, lean-to's, or any similar building. –as per the Aitkin County Shoreland Management Ordinance.

"Impervious surface coverage" means any structure, facility or surface that sheds water including structures and facilities, sewage treatment system absorption areas (equal to 190 sq.ft./bedroom), retaining walls, and roadway surfaces and parking areas. Impervious surface does not include eaves of two feet and less. – Per the Aitkin Count Shoreland Management Ordinance.

Itemized square footage of proposed structure(s):

<u>144 sq ft / Dining room - Kitchen</u>	} Total additions to Impervious after tear down / rebuild
<u>480 sq ft - Garage</u>	
<hr/>	
<u>288 sq ft Kitchen</u>	} Total proposed
<u>912 garage</u>	

SURVEY FOR: BRYON ANDERSON
1903 WEST MARK STREET
WINONA, MN 55987

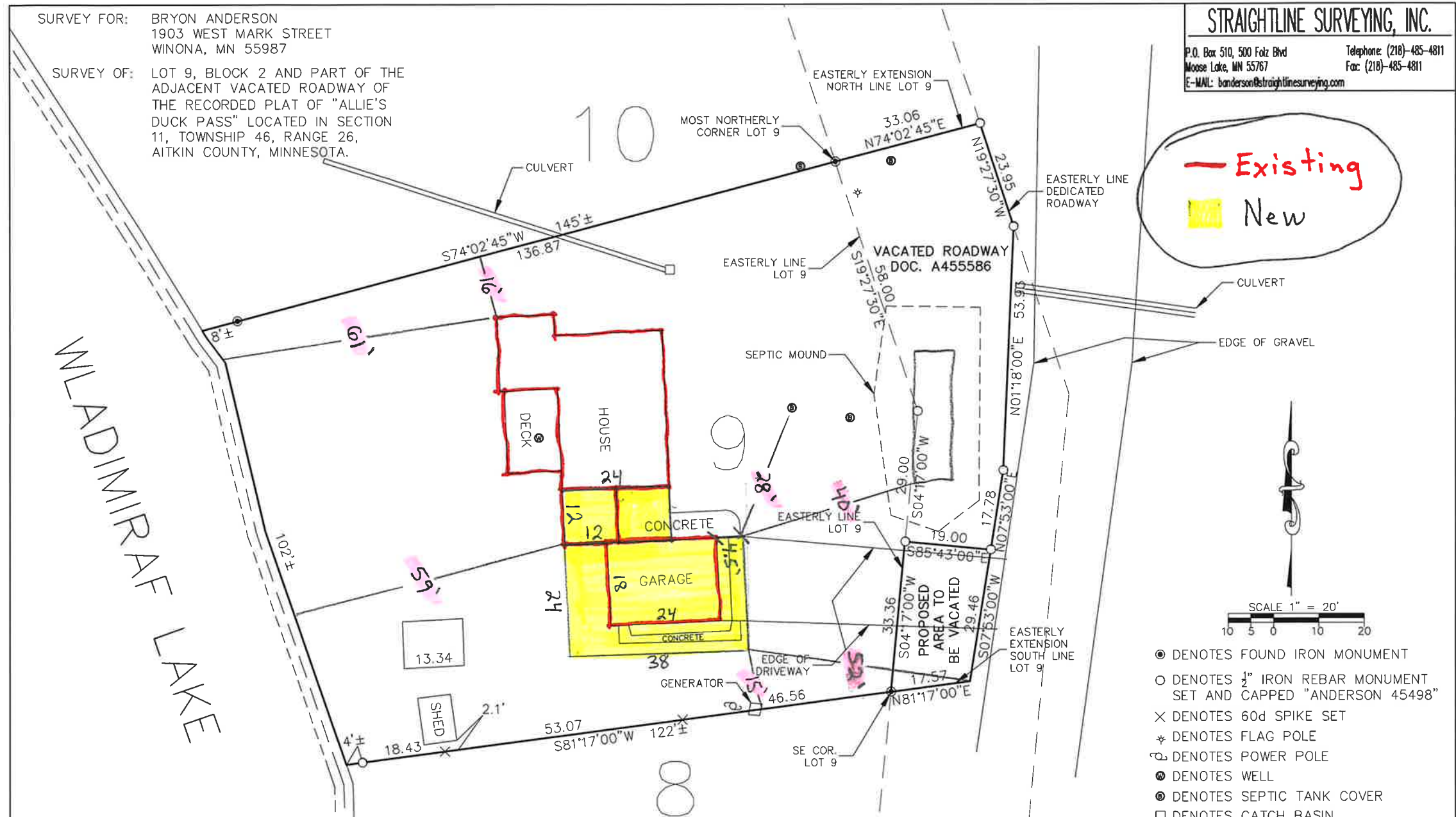
SURVEY OF: LOT 9, BLOCK 2 AND PART OF THE
ADJACENT VACATED ROADWAY OF
THE RECORDED PLAT OF "ALLIE'S
DUCK PASS" LOCATED IN SECTION
11, TOWNSHIP 46, RANGE 26,
AITKIN COUNTY, MINNESOTA.

STRAIGHTLINE SURVEYING, INC.

P.O. Box 510, 500 Folz Blvd
Moose Lake, MN 55767

Telephone: (218)-485-4811
Fax: (218)-485-4811

E-MAIL: bonderson@straightlinesurveying.com



— Existing
New



- ⊙ DENOTES FOUND IRON MONUMENT
- DENOTES 1/2" IRON REBAR MONUMENT SET AND CAPPED "ANDERSON 45498"
- × DENOTES 60d SPIKE SET
- * DENOTES FLAG POLE
- ⊕ DENOTES POWER POLE
- ⊗ DENOTES WELL
- ⊙ DENOTES SEPTIC TANK COVER
- DENOTES CATCH BASIN

I hereby certify that this survey, plan, or report was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor under the laws of the State of Minnesota.

Benjamin H. Anderson
Benjamin H. Anderson

45498
License No.

08-10-2023
Date

2023-121
Job No.

AITKIN 3 P.44
Book No.

SURVEY FOR: BRYON ANDERSON
1903 WEST MARK STREET
WINONA, MN 55987

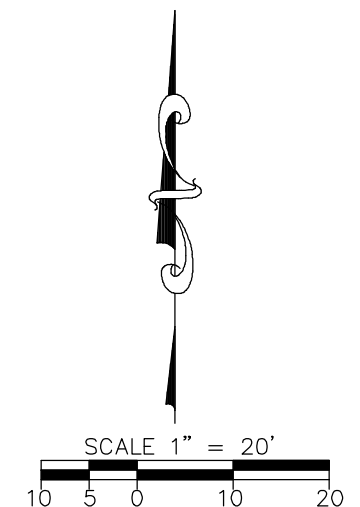
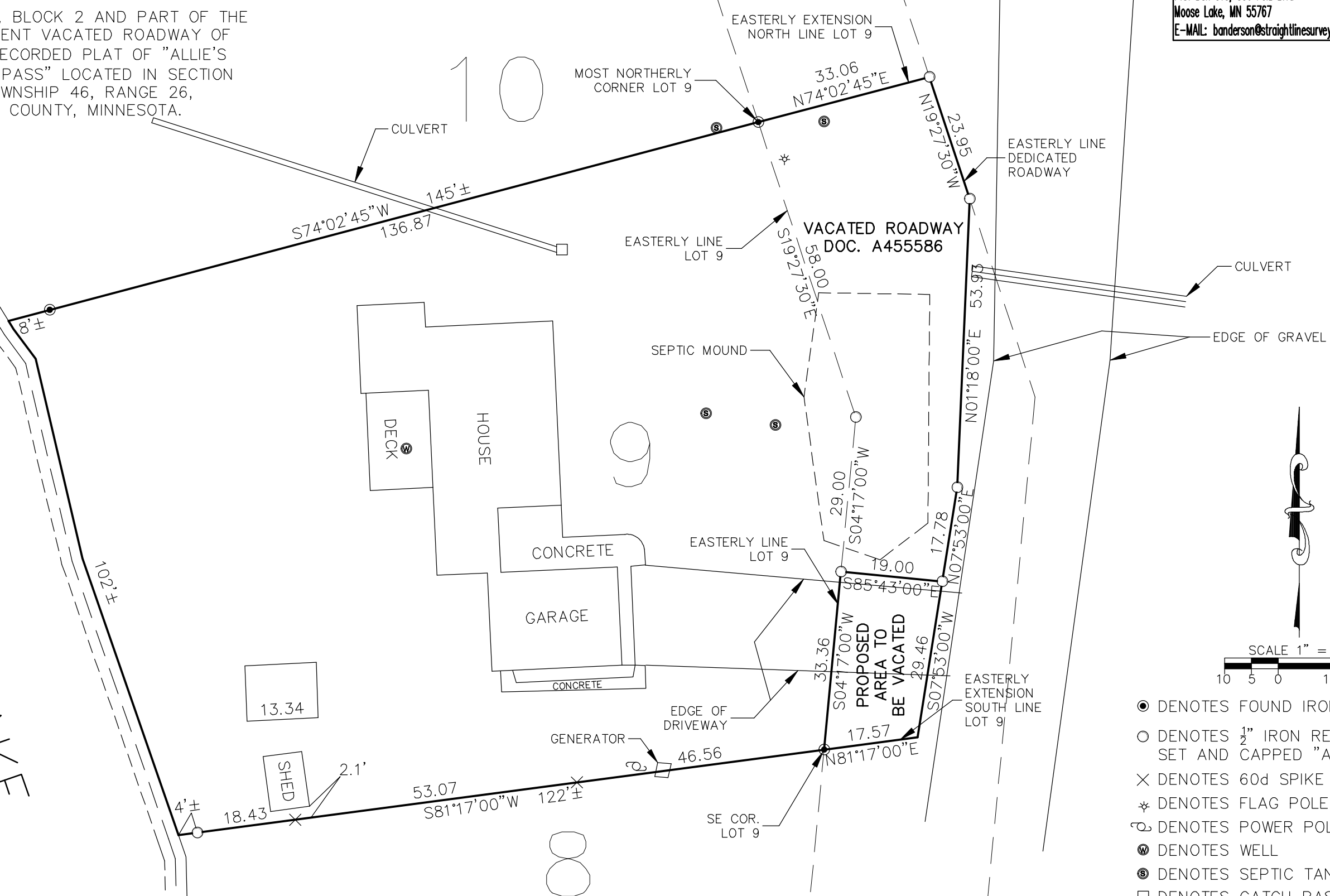
SURVEY OF: LOT 9, BLOCK 2 AND PART OF THE
ADJACENT VACATED ROADWAY OF
THE RECORDED PLAT OF "ALLIE'S
DUCK PASS" LOCATED IN SECTION
11, TOWNSHIP 46, RANGE 26,
AITKIN COUNTY, MINNESOTA.

STRAIGHTLINE SURVEYING, INC.

P.O. Box 510, 500 Folz Blvd
Moose Lake, MN 55767
E-MAIL: banderson@straightlinesurveying.com

Telephone: (218)-485-4811
Fax: (218)-485-4811

W. ADMIRAL LAKE



- DENOTES FOUND IRON MONUMENT
- DENOTES 1/2" IRON REBAR MONUMENT SET AND CAPPED "ANDERSON 45498"
- × DENOTES 60d SPIKE SET
- * DENOTES FLAG POLE
- ⊕ DENOTES POWER POLE
- ⊙ DENOTES WELL
- ⊗ DENOTES SEPTIC TANK COVER
- DENOTES CATCH BASIN

I hereby certify that this survey, plan, or report was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor under the laws of the State of Minnesota.

Benjamin H. Anderson
Benjamin H. Anderson

45498
License No.

08-10-2023
Date

2023-121
Job No.

AITKIN 3 P.44
Book No.

SURVEY FOR: BRYON ANDERSON
1903 WEST MARK STREET
WINONA, MN 55987

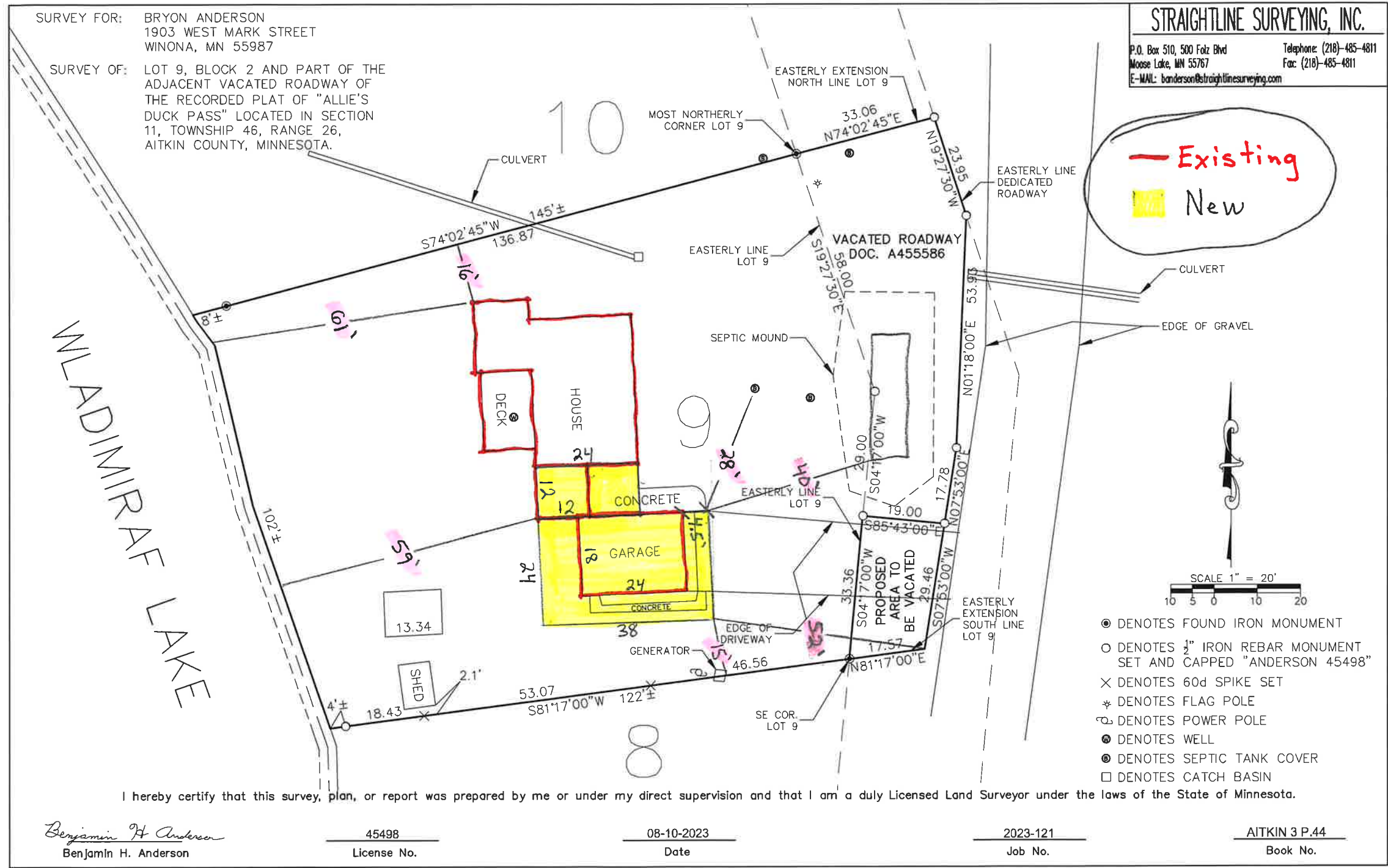
SURVEY OF: LOT 9, BLOCK 2 AND PART OF THE
ADJACENT VACATED ROADWAY OF
THE RECORDED PLAT OF "ALLIE'S
DUCK PASS" LOCATED IN SECTION
11, TOWNSHIP 46, RANGE 26,
AITKIN COUNTY, MINNESOTA.

STRAIGHTLINE SURVEYING, INC.

P.O. Box 510, 500 Folz Blvd
Moose Lake, MN 55767

Telephone: (218)-485-4811
Fax: (218)-485-4811

E-MAIL: bonderson@straightlinesurveying.com



— Existing
New

- ⊙ DENOTES FOUND IRON MONUMENT
- DENOTES 1/2" IRON REBAR MONUMENT SET AND CAPPED "ANDERSON 45498"
- × DENOTES 60d SPIKE SET
- * DENOTES FLAG POLE
- ⊕ DENOTES POWER POLE
- ⊗ DENOTES WELL
- ⊙ DENOTES SEPTIC TANK COVER
- DENOTES CATCH BASIN

I hereby certify that this survey, plan, or report was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor under the laws of the State of Minnesota.

Benjamin H. Anderson
Benjamin H. Anderson

45498
License No.

08-10-2023
Date

2023-121
Job No.

AITKIN 3 P.44
Book No.

SEPTIC CHECK

EXPERT SERVICE. LASTING VALUE. CLEAN WATER

Septic System Compliance Inspection – Existing System

DATE 3/13/2023

Property Owner: Bryon Anderson
Street Address: 32681 355th Ave
City, State, Zip: Aitkin, MN 56431

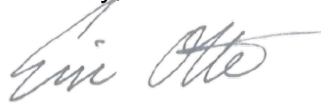
Dear Bryon Anderson and Aitkin County

A compliance inspection was performed at the above location. Soil investigations were conducted to determine the seasonal high water table, the drain field was also inspected to ensure there was no ponding or leakage, and the septic tank was inspected. The system was found to be

- **Impact on Public Health:**
Compliant; no impact on public health.
- **Tank Integrity:**
Compliant; tank(s) are functioning at operating level and are protecting the groundwater.
- **Other Compliance Conditions:**
Compliant; meets conditions of A, B, & C.
- **Soil Separation:**
Compliant, soil has 3' of vertical separation to saturated soils.
- **Operating Permit and Nitrogen BMP:**
Not applicable

I included a copy of the compliance documents and site sketch. Copies were sent to Aitkin County on your behalf. If you have any further questions, please do not hesitate to give us a call. Thank you for your business!

Sincerely,



Eric Otte, Lic. No. 8453
Compliance and Design
Office: 320-983-2447
ericotte@septiccheck.com

SEPTIC CHECK

EXPERT SERVICE. LASTING VALUE. CLEAN WATER

Disclaimer

The septic system inspection conducted for this property, meets the MN chapter 7082.0700 Subp. 4. Requirements for existing system inspections.

We recommend this system be serviced and inspected at least every 36 months by a septic professional.

Water use in excess of 50% of the design flow of the septic system may lead to premature failure.

This inspection does not guarantee future performance.

Additions to the home or use of the property may require the property owner to increase the system capacity.

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: 24-1-086400 Reason for Inspection Building Permit

Local regulatory authority info: Aitkin

Property address: 32681 355th Ave Aitkin, MN 56431

Owner/representative: Bryon Anderson Owner's phone: 507-450-7739

Brief system description: Wieser WLP 550/450/650/ FDL Bio 500, BioMicrobics-FAST, UV, dosed to a 10'x38' mound.

System status

System status on date (mm/dd/yyyy): 3/6/2023

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: Septic Check Certification number: 8453

Inspector signature: Eric Otte  License number: 2624

(This document has been electronically signed) Phone: 320-983-2447

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): _____

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.

Describe verification methods and results:

Visual Inspection

Attached supporting documentation:

Other: _____

Not applicable

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.

Describe verification methods and results:

Pumped, cleaned and visually inspected.

Attached supporting documentation:

Empty tank(s) viewed by inspector

Name of maintenance business: Timberlakes

License number of maintenance business: L455

Date of maintenance: 3/3/23

Existing tank integrity assessment (Attach)

Date of maintenance 3/3/2023
(mm/dd/yyyy): (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: _____

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:

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)

5. Soil separation – Compliance component #5 of 5

Date of installation 4/17/2017 Unknown
(mm/dd/yyyy)

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.

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	
B. Periodically saturated soil/bedrock	
C. System separation	
D. Required compliance separation*	

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

***Any "no" answer above indicates the system is failing to protect groundwater.**

Describe verification methods and results:

Upgrade requirements: (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, 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.

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 \(wg-wwists4-31b\)](#). 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 Bryon and Marcia Anderson / Heather Johnson - Septic Check

 Property address: 32681 355th Ave., Aitkin, MN 56431

 Local Regulatory Authority: Aitkin County

 Parcel ID: 24-1-086400

System status

 System status on date (mm/dd/yyyy): 3/3/2023
 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: Timber Lakes Septic Service Inc

 Business license number: L455

Designated Certified Individual (DCI) information

 Print name: Dan Swanson

 Certification number: C6023

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: Dan Swanson
(This document has been electronically signed.)

 Date (mm/dd/yyyy): 3/3/2023

Septic Check

6074 Keystone Rd
Milaca, MN 56353

320-983-2447
Fax: 320-983-2151

Mail To: Bryon Anderson
1903 West Mark Street
Winona, MN
55987

PROPERTY INFORMATION

Location: 32681 - 355th Ave.
Aitkin
Tax ID: 24-1-086400

Use: Residential, Single Family (3 bdrm)
System Design Flow: 450
GENERAL SYSTEM TYPE: FAST Res 2x Yr w/Test

Fold
Here

ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT

Inspected: 11/02/2022 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Company:
Septic Check

Work Performed By:
Michael Pederson

Submitted 11/04/2022 by:
Heather Johnson

Fold
Here

COMMENTS & GENERAL INSPECTION NOTES

No Deficiencies Noted

GENERAL SITE & SYSTEM CONDITIONS

The General Site and System Conditions were:	Fully Inspected
Components accessible for service:	YES
All required service performed (if no - specify omitted inspection items in notes):	YES
Surfacing effluent from any component (including mound seepage):	NO
Components appear to be watertight - no visual leaks:	YES
Improper encroachment (structures/impervious surfaces); cover; or settling problems observed:	NO

ONSITE SEWAGE SYSTEM INSPECTION DETAIL

TANK: Septic Tank - 1 Compartment - 1,650 Gal Tank w/ MicroFAST unit

This component was:	Fully Inspected
Effluent level within operational limits (if NO explain in comments):	YES
All required baffles in place (N/A = No baffles required):	YES
Compartment 1 Scum accumulation (Inches, if other specify):	0
Compartment 1 Sludge accumulation (Inches, if other specify):	1
Pumping recommended:	NO

Aerobic Treatment Unit: ATU - BioMicrobics - FAST, Manufacturer= Bio-Microbics, Inc. - MicroFAST 0.5

Manufacturer: Bio-Microbics, Inc. Model: MicroFAST 0.5

This component was:	Fully Inspected
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES
Cleaned filter element:	NO
Unit audio/visual alarms functioning:	YES
Vent(s) and observation ports clear from obstructions:	YES
Vigorous boiling is occurring:	YES
Effluent is visually clear:	YES
The effluent smell is a damp, earthy odor (N/A = not observed):	YES
pH level within normal operating range (6-9): (Enter N/A if not performed):	N/A
Field sample performance results within operational limits (Enter N/A if not performed):	N/A
The first compartment settling zone sludge accumulation is greater than 18 inches or is within 6 inches of the connection point between the settling zone and treatment zone. (If Yes, pumping needed):	NO
The second compartment treatment zone sludge accumulation is less than 3 inches from the FAST unit. (If Yes, pumping needed):	NO
Pumping needed:	NO

Disinfection: Ultra Violet, Manufacturer= Salcor Engineering - 3G

Manufacturer: Salcor Engineering Model: 3G

This component was:	Fully Inspected	
Alarm mechanism functioning as intended:	YES	
Disinfection unit light on:	YES	

Panel: Control - 1 Pump - Drainfield Dose Panel

This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	1.6	
Pump 1: off hours (override in parentheses - if present):	3.9	
Pump 1: gallons per dose (override in parentheses - if present):	-	
Pump 1: ETM hours (override in parentheses - if present):	34.46	
Pump 1: Cycle Count (override in parentheses - if present):	1371	

Pump: Effluent Pump, Manufacturer= Champion - CPE - Champion CPE4A

Manufacturer: Champion Model: CPE

This component was:	Fully Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	-	

Media Filter: Mound 10' x 37.5'

This component was:	Fully Inspected	
Slope integrity maintained:	YES	
Lateral lines flushed:	NO	
Ponding present? If YES explain in comments:	NO	
Average squirt height (if performed) (feet, if other specify):	-	

TANK: Pump Tank - 650 Gal Pump Tank

This component was:	Fully Inspected	
Compartment 1 Scum accumulation (Inches, if other specify):	0	
Compartment 1 Sludge accumulation (Inches, if other specify):	0	
Pumping recommended:	NO	

SAMPLING REPORT

Location: 32681 - 355th Ave.

Aitkin

24-1-086400

Owner: Bryon Anderson

Use: Single Family

Service Company:

Septic Check

6074 Keystone Rd

Milaca, MN 56353

320-983-2447

Laboratory: A W Labs

Sample Date: 11/02/2022 Sample entered by: Heather Johnson Report submitted: 11/08/2022

Notes:

ONSITE SEWAGE SYSTEM SAMPLING DETAIL

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Control - 1 Pump - Drainfield Dose Panel	Effluent	Flow	450 GPD	99.6
Pump Tank - 650 Gal Pump Tank	Effluent	Fecal	000 cfu/100r	100

This report indicates certain characteristics of the sample taken at the time of visit. In no way is this report a guarantee of operation or future performance.

Septic Check

6074 Keystone Rd
Milaca, MN 56353

320-983-2447
Fax: 320-983-2151

Mail To: Bryon Anderson
1903 West Mark Street
Winona, MN
55987

PROPERTY INFORMATION

Location: 32681 - 355th Ave.
Aitkin
Tax ID: 24-1-086400

Use: Residential, Single Family (3 bdrm)
System Design Flow: 450
GENERAL SYSTEM TYPE: FAST Res 2x Yr w/Test

Fold
Here

ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT

Inspected: 04/25/2022 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Company:
Septic Check

Work Performed By:
Michael Pederson

Submitted 04/26/2022 by:
Heather Johnson

Fold
Here

COMMENTS & GENERAL INSPECTION NOTES

No Deficiencies Noted

The bulb wasn't all the way down in the glass sheath, so the UV was not treating properly like it should be. I placed the bulb down where it should be so next time we sample we can get better results. If the fecal sample does not meet limits this time, this could be the reason.

GENERAL SITE & SYSTEM CONDITIONS

The General Site and System Conditions were:	Fully Inspected
Components accessible for service:	YES
All required service performed (if no - specify omitted inspection items in notes):	YES
Surfacing effluent from any component (including mound seepage):	NO
Components appear to be watertight - no visual leaks:	YES
Improper encroachment (structures/impervious surfaces); cover; or settling problems observed:	NO

ONSITE SEWAGE SYSTEM INSPECTION DETAIL

TANK: Septic Tank - 1 Compartment - 1,650 Gal Tank w/ MicroFAST unit

This component was:	Fully Inspected
Effluent level within operational limits (if NO explain in comments):	YES
All required baffles in place (N/A = No baffles required):	YES
Compartment 1 Scum accumulation (Inches, if other specify):	1
Compartment 1 Sludge accumulation (Inches, if other specify):	1
Pumping recommended:	NO

Aerobic Treatment Unit: ATU - BioMicrobics - FAST, Manufacturer= Bio-Microbics, Inc. - MicroFAST 0.5

Manufacturer: Bio-Microbics, Inc. Model: MicroFAST 0.5

This component was:	Fully Inspected
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES
Cleaned filter element:	NO
Unit audio/visual alarms functioning:	YES
Vent(s) and observation ports clear from obstructions:	YES
Vigorous boiling is occurring:	YES
Effluent is visually clear:	YES
The effluent smell is a damp, earthy odor (N/A = not observed):	YES
pH level within normal operating range (6-9): (Enter N/A if not performed):	N/A
Field sample performance results within operational limits (Enter N/A if not performed):	N/A
The first compartment settling zone sludge accumulation is greater than 18 inches or is within 6 inches of the connection point between the settling zone and treatment zone. (If Yes, pumping needed):	NO
The second compartment treatment zone sludge accumulation is less than 3 inches from the FAST unit. (If Yes, pumping needed):	NO
Pumping needed:	NO

Disinfection: Ultra Violet, Manufacturer= Salcor Engineering - 3G

Manufacturer: Salcor Engineering Model: 3G

This component was:	Fully Inspected	
Alarm mechanism functioning as intended:	YES	
Disinfection unit light on:	YES	

Panel: Control - 1 Pump - Drainfield Dose Panel

This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	1.9	
Pump 1: off hours (override in parentheses - if present):	4	
Pump 1: gallons per dose (override in parentheses - if present):	NA	
Pump 1: ETM hours (override in parentheses - if present):	27.64	
Pump 1: Cycle Count (override in parentheses - if present):	1118	

Pump: Effluent Pump, Manufacturer= Champion - CPE - Champion CPE4A

Manufacturer: Champion Model: CPE

This component was:	Fully Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	NA	

Media Filter: Mound 10' x 37.5'

This component was:	Fully Inspected	
Slope integrity maintained:	YES	
Lateral lines flushed:	NO	
Ponding present? If YES explain in comments:	NO	
Average squirt height (if performed) (feet, if other specify):	NA	

TANK: Pump Tank - 650 Gal Pump Tank

This component was:	Fully Inspected	
Compartment 1 Scum accumulation (Inches, if other specify):	0	
Compartment 1 Sludge accumulation (Inches, if other specify):	0	
Pumping recommended:	NO	

SAMPLING REPORT

Location: 32681 - 355th Ave.

Aitkin

24-1-086400

Owner: Bryon Anderson

Use: Single Family

Service Company:

Septic Check

6074 Keystone Rd

Milaca, MN 56353

320-983-2447

Laboratory: AW Labs

Sample Date: 04/25/2022 Sample entered by: Heather Johnson Report submitted: 05/02/2022

Notes: Will sample at next visit as the UV light was not adjusted properly. Ended up sampling it was 1640. With the UV light being adjusted, next sample at fall visit should passing.

ONSITE SEWAGE SYSTEM SAMPLING DETAIL

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Control - 1 Pump - Drainfield Dose Panel	Effluent	Flow	450 GPD	34.7

Septic Permit # 2017-1478

APP-2017-001633
P#42731
OP#529

Aitkin County Planning & Zoning / Environmental Services
209 2nd Street NW, Room 100
Aitkin, MN 56431
Phone: 218-927-7342
Fax: 218-927-4372
Email: aitkinpz@co.aitkin.mn.us

Contact Information

Are you the Property Owner? No
If we have questions on the application who should we contact?
Name: Travis Johnson
Phone: (320) 983 - 2447
Email Address: travis@septiccheck.com
Mailing Address: 6074 Milaca MN 56353
errinkrats@msn.com

Property Owner Contact

Property Owner Email Address: errinkrats@msn.com

Project Location Search

Property: Selected:

Property Location		Property Address			Legal Description	Property Attributes		Owner Information	Tax Payer Information
Parcel Number	Township or City Name	TWP	SEC	RGE	Property Zip 5	Lake Number	Lake Name	Owner Name(s)	Taxpayer Name(s)
24-1-086400	NORDLAND TWP	46	11	26	32681 355th Ave AITKIN	56431	LOT 9 BLK 2	OLSON, ROSE	OLSON, ROSE
							1,011,500 LAKE	TRUSTEE	TRUSTEE

Driving take 355th ave south off of CR 17. It is on the land bridge between section 10 lake and section 12 lake.
Directions to the project location:.
Does your property have an E911 address assigned? Yes

Designer/Installer

Designer Name: Septic Check
 Installer: Licensed Septic Professional
 Installer Name: Septic Check
 Installer License Number: 2624

System Information

Please attach a septic system design:
 File 1: ✓ Schrackenhaust_Design.pdf
 File 2: ✓ Schrackenhaust_Design_w_OP_ppw.pdf
 Please select all that apply: Residential Other/Performance Sewer

Invoice 04/24/2017

Charge	Cost	Quantity	Total
Residential Other/Performance Sewer added 04/24/2017 5:02 PM	\$350.00	x 1	\$350.00
\$350 Flat Fee			
Grand Total		Total (Paid)	\$350.00

Invoice 04/27/2017

Charge	Cost	Quantity	Total
Residential Operating Permit added 04/27/2017 8:18 AM	\$100.00	x 1	\$100.00
\$100 Flat Fee			
Grand Total		Total (Paid)	\$100.00

Approvals

Approval	Signature
Applicant	Travis M. Johnson - 04/24/2017 5:02 PM d1fa5bce979a09d9826550864417d260 1fb60129b5ada7acbb507dc1372cdc9b
#1 Administrative Approval Group	Kalea Suihkonen - 05/04/2017 4:17 PM 052e56d735642ff52504c4058ab4a1ca 105e0b9679021d87fbb6d0cc3a6192a
#2 Inspector Group	Kalea Suihkonen - 05/05/2017 12:10 PM 4896ab0562c8edf6cf10b1f641dab5e ea442d69e08b9456a6c422b7eb7b41e
#3 Final Approval	Kalea Suihkonen - 05/05/2017 12:11 PM 1809293eb25f536881e0f64ff2bccdf 5bb59436cb1de7e1f9f4ac979f6ea03b

Admin Checklist

This application has been started by: Kalea Suihkonen
 Zoning District of project location: Shoreland
 Required OWHL setback distance: 75 ft.
 "Other" OWHL setback distance is:
 Pumping Agreement Attached? No
 Low Interest Loan or SSTS Grant project? No
 Is this an After-The-Fact application? No

DESIGN REVIEW CHECKLIST

Zoning Inspector: Terry Neff
 SSTS Type: Type IV
 SSTS Design: "Other"/Performance System
 New or Replacement SSTS: Replacement SSTS
 gpd: 1-2,499 gpd
 # of bedrooms: 3
 Does this system require an Operating Permit? Yes
 Operating Permit #: 527
 Attach appropriate inspection forms:
 Does this system belong to an other No
 establishment?
 Is this a Cluster System? No

Public Notes

Text: PERMIT 42731 ISSUED FOR AN "OTHER" SEPTIC SYSTEM WITH OPERATING PERMIT #527
 5-4-17 Terry Neff reviewed and approved design. KS

- File(s):
- File 1: Operating_permit.pdf
 - Operating_permit.pdf
 - File 2: P_42731_OP_529.pdf
 - P_42731_OP_529.pdf

Numbers

Current Number **Next from Sequence**
 UID # 193330 not applicable
 App. # App-2017-001633 App-2017-001692
 Permit # 2017-1478 2017-1479





INDIVIDUAL SEWAGE SYSTEM DESIGN SUMMARY

Property Owner: Ron Schreckenhaust Phone: 612-363-3404
 Address: 32681 - 355th Ave Township: _____
 City: Aitkin Zip: 56431 County: Aitkin

DESIGN USAGE

Single Family Home X Other _____
 Number of Potential Bedrooms 3
 Garbage Disposal no
 Sewage Lift Pump no

SITE CHARACTERISTICS

Soil type Clay Loam
 Hydraulic Loading existing
 Depth to restrictive layer 8"

PUMP INFORMATION

Pump GPM & TDH Est. 29 GPM 16.1 TDH
 Cycles per day 6
 Gallons per cycle 75 gallons
 Perforation size & spacing unknown
 Number, spacing, & diameter of laterals 3 laterals size unknown
 Forcemain Size 2"

CAPACITIES

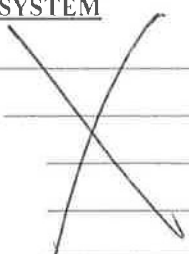
Daily Water Use 450 Est _____ Calc X
 Septic Tank Capacity 550 gallons
 Pump Tank Capacity 650 gallons

MOUND SYSTEM

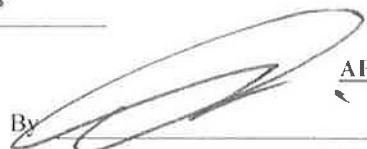
Dimension of Rock Base 10' by 37.5'
 Depth of Rock Below Pipe Existing
 Dimensions of Mound Existing
 % Slope of Soil Under Mound Existing
 Upslope Dike Width Existing
 Downslope Dike Width Existing
 Sideslope Dike Width Existing

TRENCH SYSTEM

Type of trench _____
 Maximum Depth of trench _____
 Square Feet of bed Required _____
 Square Feet of bed Proposed _____
 Lineal Feet of bed Proposed _____



APPROVAL

By  Date 4/24/2017
 Brian Koski License #2624

See additional information sheet if checked

Protecting Your Investment and Everyone's Environment

Septic System Design Additional Information

Property Owner: Ron Schreckenhaust

Description of Wastewater Treatment and Dispersal System

This design is for an existing septic system on a lake home in Aitkin County. A compliance inspection was done and found the mound system only had 1.5' of separation and was considered non-compliant. The proposed design would utilize a pretreatment system that would treat to level A to bring the system into compliance.

The existing tanks will need to be pumped and properly abandon prior to the installation of the Wieser three compartment treatment tank. There is a large maple tree that will need to be removed for the installation of the new tank. The existing mound system will need to have cleanouts installed and it is recommended that the lines be jetted prior to being connected to the new system.

The original design for the existing mound system does not provide orifice sizing or spacing. Assumptions have been made to get a general idea on dosing volumes and pump sizing. Once the system is receiving water, drawdowns should be performed on the pumps to assure proper dosing.

Keep all vehicles and construction equipment off septic area. Rutting and/or compacting the soil will change the percolation rates and may lead to system failure.

Homeowner to verify all property lines.

Elevations are referenced to Bench Mark on the top of the lid on the existing tank.

Installer to verify all elevations, dimensions, and ensure proper fall to pipes. Pitch pump chamber outlet to ensure complete drainback to pump chamber.

Establish turf to prevent erosion and freezing.

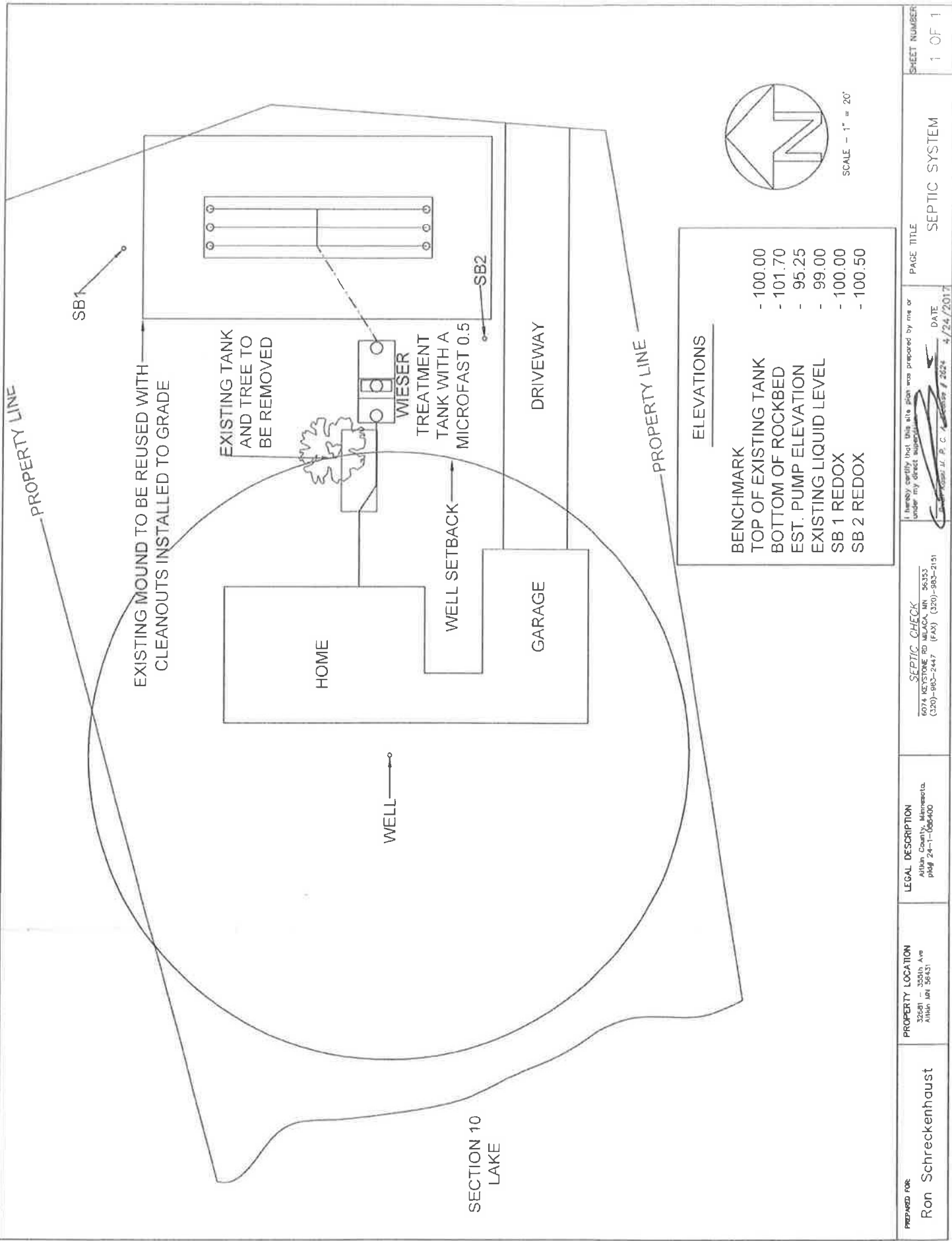
Each tank is to be pumped through the maintenance cover when serviced. Do not pump through inspection pipes.

Homeowner is responsible for all costs involved in servicing, monitoring, and mitigating the system.

All construction to be performed in accordance with MN Rule 7080.

Maintenance Requirements

See attached operating permit or management plan for details



ELEVATIONS	
BENCHMARK	- 100.00
TOP OF EXISTING TANK	- 101.70
BOTTOM OF ROCKBED	- 95.25
EST. PUMP ELEVATION	- 99.00
EXISTING LIQUID LEVEL	- 100.00
SB 1 REDOX	- 100.50
SB 2 REDOX	- 100.50

Soil Profile Description

Last updated: 1/8/10

Date Completed :	4/24/2017	Observation # :	SB 1 & 2
Completed By :	Travis Johnson	Equipment :	Bucket Auger
Client / Project :	Ron Schreckenhaust	Limiting Layer :	8" & 10"
Landscape position :		Vegetation :	Grass
Mapped soil type :	Cushing Mahtomedi	Weather :	Sunny

Observation # : 1	Primary or Alternate Site	Elevation:	Soil Texture	Matrix Color	Redox features	Shape	Grade	Consistence
			Loam	10 YR 2/2		Granular	Strong	Friable
			Clay Loam	7.5 YR 5/5	Concentrations	Blocky	Strong	Friable

Observation # : 2	Primary or Alternate Site	Elevation:	Soil Texture	Matrix Color	Redox features	Shape	Grade	Consistence
			Loam	10 YR 2/2	Concentrations	Granular	Strong	Friable
			Clay Loam	7.5 YR 5/5	Concentrations & Depletions	Blocky	Strong	Friable

OSTP Design Summary Worksheet



Property Owner/Client: Project ID: v 07.14.15
 Site Address: Date:

1. DESIGN FLOW AND TANKS

A. Design Flow: Gallons Per Day (GPD) *Note: The estimated design flow is considered a peak flow rate including a safety factor. For long term performance, the average daily flow is recommended to be < 60% of this value.*

B. Septic Tanks:
 Minimum Code Required Septic Tank Capacity: Gallons, in Tanks or Compartments
 Recommended Septic Tank Capacity: Gallons, in Tanks or Compartments
 Effluent Screen: Alarm:

C. Holding Tanks Only:
 Minimum Code Required Capacity: Gallons, in Tanks
 Designer Recommended Capacity: Gallons, in Tanks
 Type of High Level Alarm:

D. Pump Tank 1 Capacity (Code Minimum): Gallons Pump Tank 2 Capacity (Code Minimum): Gallons
 Pump Tank 1 Capacity (Designer Rec): Gallons Pump Tank 2 Capacity (Designer Rec): Gallons
 Pump 1 GPM Total Head ft Pump 2 GPM Total Head ft
 Supply Pipe Dia. in Dose Volume: gal Supply Pipe Dia. in Dose Volume: gal

2. SYSTEM TYPE

Trench Bed Mound At-Grade Gravity Distribution Pressure Distribution-Level Pressure Distribution-Unlevel
 Drip Holding Tank Other * Selection Required

Benchmark Elevation: ft
 Benchmark Location:

System Type				
<input type="checkbox"/> Type I	<input type="checkbox"/> Type II	<input type="checkbox"/> Type III	<input checked="" type="checkbox"/> Type IV	<input type="checkbox"/> Type V

Type of Distribution Media:
 Drainfield Rock Registered Treatment Media:

3. SITE EVALUATION:

A. Depth to Limiting Layer: in ft
 B. Measured Land Slope %: %
 C. Elevation of Limiting Layer:
 D. Soil Texture:
 E. Loc. of Restrictive Elevation:
 F. Soil Hyd. Loading Rate: GPD/ft²
 G. Minimum Required Separation: in ft
 H. Perc Rate: MPI
 I. Code Maximum Depth of System: in Comments:

4. DESIGN SUMMARY

Trench Design Summary

Dispersal Area ft² Sidewall Depth in Trench Width ft
 Total Lineal Feet ft Number of Trenches Code Maximum Trench Depth in
 Contour Loading Rate ft Designer's Max Trench Depth in

Bed Design Summary

Absorption Area ft² Depth of sidewall in Code Maximum Bed Depth in
 Bed Width ft Bed Length ft Designer's Max Bed Depth in

OSTP Design Summary Worksheet



Mound Design Summary

Absorption Bed Area	<input type="text" value="0.0"/> ft ²	Bed Length	<input type="text" value="0.0"/> ft	Bed Width	<input type="text" value="0.0"/> ft
Absorption Width	<input type="text" value="0.0"/> ft	Clean Sand Lift	<input type="text" value="0.0"/> ft	Berm Width (0-1%)	<input type="text"/> ft
Upslope Berm Width	<input type="text"/> ft	Downslope Berm Width	<input type="text"/> ft	Endslope Berm Width	<input type="text" value="0.0"/> ft
Total System Length	<input type="text" value="0.0"/> ft	Total System Width	<input type="text" value="0.0"/> ft	Contour Loading Rate	<input type="text" value="0.0"/> gal/ft

At-Grade Design Summary

Absorption Bed Width	<input type="text"/> ft	Absorption Bed Length	<input type="text"/> ft	System Height	<input type="text"/> ft
Contour Loading Rate	<input type="text"/> gal/ft	Upslope Berm Width	<input type="text"/> ft	Downslope Berm Width	<input type="text"/> ft
Endslope Berm Width	<input type="text"/> ft	System Length	<input type="text"/> ft	System Width	<input type="text"/> ft

Level & Equal Pressure Distribution Summary

No. of Perforated Laterals	<input type="text" value="3"/>	Perforation Spacing	<input type="text" value="3"/> ft	Perforation Diameter	<input type="text" value="1/4"/> in
Lateral Diameter	<input type="text" value="2.00"/> in	Min. Delivered Volume	<input type="text" value="73"/> gal	Maximum Delivered Volume	<input type="text" value="113"/> gal

Non-Level and Unequal Pressure Distribution Summary

	Elevation (ft)	Pipe Size (in)	Pipe Volume (gal/ft)	Pipe Length (ft)	Perforation Size (in)	Spacing (ft)	Spacing (in)	
Lateral 1								Minimum Delivered Volume <input type="text"/> gal Maximum Delivered Volume <input type="text"/> gal
Lateral 2								
Lateral 3								
Lateral 4								
Lateral 5								
Lateral 6								

5. Additional Info for Type IV/Pretreatment Design

A. Calculate the organic loading

1. Organic Loading to Pretreatment Unit = Design Flow X Estimated BOD in mg/L in the effluent X 8.35 ÷ 1,000,000

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

2. Type of Pretreatment Unit Being Installed:

3. Calculate Soil Treatment System Organic Loading: BOD concentration after pretreatment ÷ Bottom Area = lbs/day/ft²

mg/L X 8.35 ÷ 1,000,000 ÷ ft² = lbs/day/ft²

Comments/Special Design Considerations:

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

Brian Koski
(Designer)

(Signature)

2624
(License #)

04/24/17
(Date)



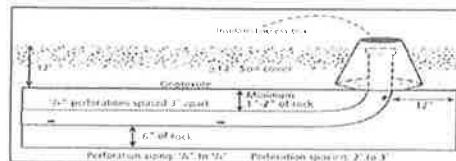
OSTP Pressure Distribution Design Worksheet



Project ID:

v 07.14.15

- Media Bed Width: ft
- Minimum Number of Laterals in system/zone = Rounded up number of $[(\text{Media Bed Width} - 4) \div 3] + 1$.
 $(\text{ } \boxed{10} \text{ } - 4) + 1 = \text{ } \boxed{3} \text{ } \text{laterals}$ *Does not apply to at-grades*
- Designer Selected Number of Laterals: laterals
Cannot be less than line 2 (accept in at-grades)
- Select Perforation Spacing: ft
- Select Perforation Diameter Size: in



- Length of Laterals = Media Bed Length - 2 Feet.
 $\boxed{38} - 2\text{ft} = \boxed{36} \text{ft}$ *Perforation can not be closer than 1 foot from edge.*
- 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 = $\boxed{36} \text{ft} \div \boxed{3} \text{ft} = \boxed{12} \text{Spaces}$

- 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 = $\boxed{12} \text{Spaces} + 1 = \boxed{13} \text{Perfs. Per Lateral}$

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	1 1/4	1 1/2	2	3		1	1 1/4	1 1/2	2	3
2	10	13	18	30	60	2	11	16	21	34	68
2 1/2	8	12	16	28	54	2 1/2	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	1 1/4	1 1/2	2	3		1	1 1/4	1 1/2	2	3
2	12	18	26	46	87	2	21	33	44	74	149
2 1/2	12	17	24	40	80	2 1/2	20	30	41	69	135
3	12	16	22	37	75	3	20	29	38	64	128

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

$\boxed{13} \text{ Perf. Per Lat.} \times \boxed{3} \text{ Number of Perf. Lat.} = \boxed{39} \text{ Total Number of Perf.}$

- Select Type of Manifold Connection (End or Center): End Center

- Select Lateral Diameter (See Table): in



OSTP Pressure Distribution Design Worksheet



12. 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)

ft X ft = ft²

b. *Square Foot per Perforation* = *Bed Area* divided by the *Total Number of Perforations*.

ft² ÷ perforations = ft²/perforations

13. Select *Minimum Average Head*: ft

14. Select *Perforation Discharge* (GPM) based on Table: GPM per Perforation

15. Determine required *Flow Rate* by multiplying the *Total Number of Perfs.* by the *Perforation Discharge*.

Perfs X GPM per Perforation = GPM

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

17. *Volume of Distribution Piping* =

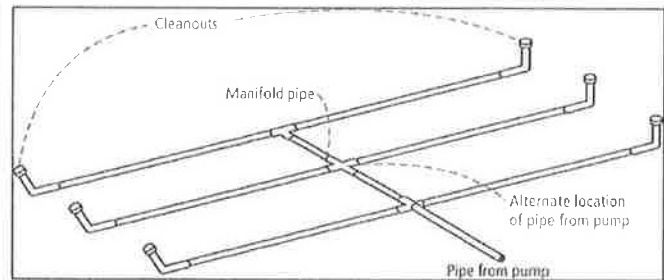
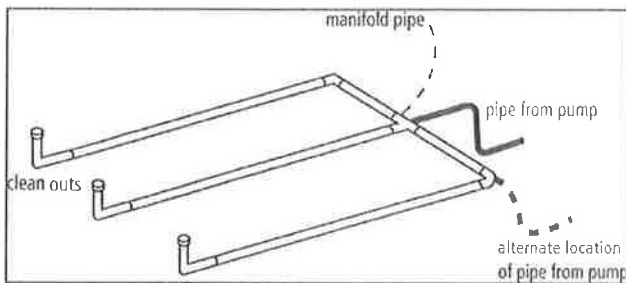
= [Number of Perforated Laterals X Length of Laterals X (Volume of Liquid Per Foot of Distribution Piping)]

X ft X gal/ft = Gallons

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

gals X 4 = Gallons

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:

Blank area for comments and special design considerations.



OSTP Basic Pump Selection Design Worksheet



1. PUMP CAPACITY Project ID:

Pumping to Gravity or Pressure Distribution: Gravity Pressure Selection required

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

2. If pumping to a pressurized distribution system: GPM

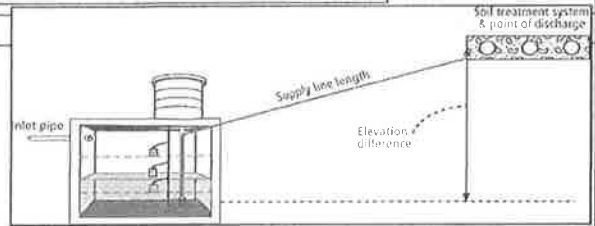
3. Enter pump description:

2. HEAD REQUIREMENTS

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

B. Distribution Head Loss: 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

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

D. 1. Supply Pipe Diameter: in

2. Supply Pipe Length: ft

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

Friction Loss = 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 (D.2) X 1.25 = Equivalent Pipe Length*

ft X 1.25 = ft

G. Calculate *Supply Friction Loss* by multiplying *Friction Loss Per 100ft* (Line E) by the *Equivalent Pipe Length* (Line F) and divide by 100.

Supply Friction Loss = ft per 100ft X ft ÷ 100 = ft

H. *Total Head* requirement is the sum of the *Elevation Difference* (Line A), the *Distribution Head Loss* (Line B), *Additional Head Loss* (Line C), and the *Supply Friction Loss* (Line G)

ft + ft + ft + ft = ft

3. PUMP SELECTION

A pump must be selected to deliver at least **29.0** GPM (Line 1 or Line 2) with at least **16.1** feet of total head.

Comments:

Blank area for comments.

DETERMINE TANK CAPACITY AND DIMENSIONS Project ID: v 07.14.15

1. A. Design Flow (Design Sum 1A): 450 GPD

B. Min. required pump tank capacity: 450 Gal C. Recommended pump tank capacity: 650 Gal

D. Pump tank description: Time to Pressure

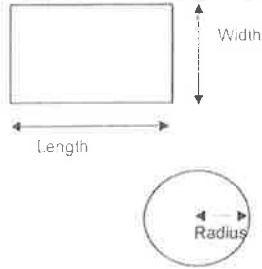
MEASURED TANK CAPACITY (existing tanks):

2. A. Rectangle area = Length (L) X Width (W)
 ft X ft = ft²

B. Circle area = 3.14r² (3.14 X radius X radius)
 3.14 X ² ft = ft²

C. Calculate Gallons Per Inch. Multiply the area from 1.A or 1.B, by 7.5 to determine the gallons per foot the tank holds and divide by 12 to calculate the gallons per inch.
 ft² X 7.5 gal/ft³ ÷ 12 in/ft = Gallons per inch

D. Calculate Total Tank Volume
 Depth from bottom of inlet pipe to tank bottom: in
 Total Tank Volume = Depth from bottom of inlet pipe (Line 4.A) X Gallons/Inch (Line 2)
 in X 15.9 Gallons Per Inch = Gallons



MANUFACTURER'S SPECIFIED TANK CAPACITY (when available):

3. A. Tank Manufacturer: Wieser

B. Tank Model: WLP 550/450/650/-FDL Bio 500

C. Capacity from manufacturer: 650 Gallons

D. Gallons per inch from manufacturer: 15.9 Gallons per inch

E. Liquid depth of tank from manufacturer: 41.0 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

4. 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 (2C or 3E)
10 in + 2 inches) X 15.9 Gallons Per Inch = 191 Gallons

5. Minimum Delivered Volume = 4 X Volume of Distribution Piping:
 Line 17 of the Pressure Distribution or Line 11 of Non-level 73 Gallons (minimum dose)

6. Calculate Maximum Pumpout Volume (25% of Design Flow)
 Design Flow: 450 GPD X 0.25 = 113 Gallons (maximum dose)

7. Select a pumpout volume that meets both Minimum and Maximum: 75 Gallons

8. Calculate Doses Per Day = Design Flow ÷ Delivered Volume
450 gpd ÷ 75 gal = 6 Doses

9. Calculate Drainback:
 A. Diameter of Supply Pipe = 2 inches
 B. Length of Supply Pipe = 40 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
40 ft X 0.170 gal/ft = 6.8 Gallons

10. Total Dosing Volume = Delivered Volume plus Drainback
75 gal + 6.8 gal = 82 Gallons

11. Minimum Alarm Volume = Depth of alarm (2 or 3 inches) X gallons per inch of tank
3 in X 15.9 gal/in = 47.8 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

TIMER or DEMAND FLOAT SETTINGS

Select Timer or Demand Dosing: Timer Demand Dose

A. Timer Settings

12. Required Flow Rate :

A. From Design (Line 12 of Pressure, Line 10 of Non-Level or Line 6 of Pump*): GPM

B. Or calculated: $GPM = \text{Change in Depth (in)} \times \text{Gallons Per Inch} / \text{Time Interval in Minutes}$
 in X gal/in ÷ min = GPM

**Note: This value must be adjusted after installation based on pump calibration.*

13. Flow Rate from Line 12.A or 12.B above. GPM

14. Calculate **TIMER ON** setting:
 Total Dosing Volume/GPM
 gal ÷ gpm = Minutes ON

15. Calculate **TIMER OFF** setting:
 Minutes Per Day (1440)/Doses Per Day - Minutes On
 1440 min ÷ doses/day - min = Minutes OFF

16. Pump Off Float - Measuring from bottom of tank:
 Distance to set **Pump Off Float**=Gallons to Cover Pump / Gallons Per Inch:
 gal ÷ gal/in = Inches

17. Alarm Float - Measuring from bottom of tank:
 Distance to set **Alarm Float** = Tank Depth(4A) X 90% of Tank Depth
 in X 0.90 = in

B. DEMAND DOSE FLOAT SETTINGS

18. Calculate **Float Separation Distance** using Dosing Volume.
 Total Dosing Volume /Gallons Per Inch
 gal ÷ gal/in = Inches

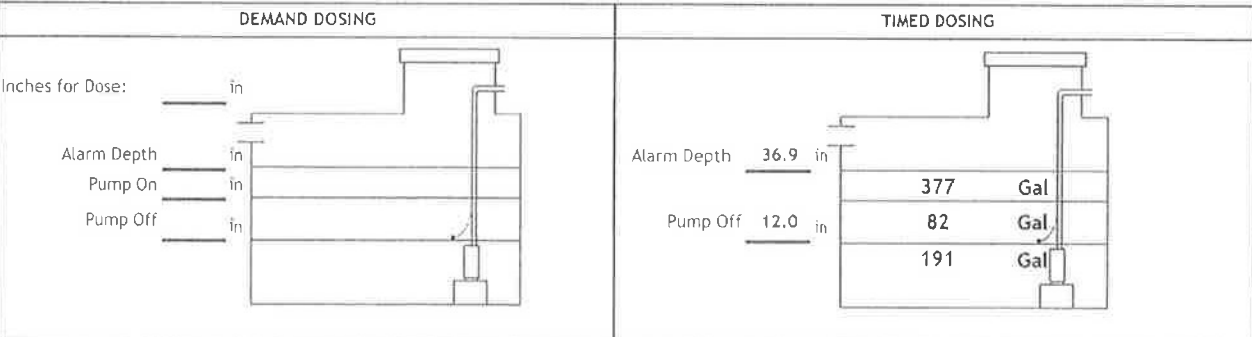
19. Measuring from bottom of tank:

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

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

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

FLOAT SETTINGS





Bio-Microbics
Fixed Film Aerobic Treatment Unit
Flows 1500 gpd or less & Domestic Strength Waste

This Management Plan identifies some basic requirements for proper operation and maintenance of the Bio-Microbics wastewater treatment device for residential use up to 1500 gpd. Refer to the manufacturer's Operation and Maintenance Manual for Bio-Microbics wastewater treatment products for detailed instructions on proper system operation and maintenance. Refer to your soil treatment system management plan (below or above-grade) for additional management requirements.

The Bio-Microbics Manual, submitted by the manufacturer as part of the registration of this product in Minnesota, can be found at the Minnesota Pollution Control Agency's website <http://www.pca.state.mn.us/programs/ists/productregistration.html>.

SYSTEM COMPONENT	TASK	FREQUENCY	RESPONSIBLE PARTY
BIO-MICROBICS RetroFAST® and MicroFAST® Products with Flows up to 1,500 gpd and Domestic Strength Waste	Monitor alarm	On-going	Homeowner
	Clean vents on housing	On-going	Homeowner or Service Provider
	Monitor flow	Annually	Service Provider
	Clean air filter on blower	Annually	Service Provider
	Check mechanical and electrical components	Annually	Service Provider
	Perform operational field tests on influent/effluent quality including odor, color, turbidity, temperature, dissolved oxygen and pH as appropriate	Annually	Service Provider
	Sample effluent as required in the local Operating Permit	See Operating Permit*	Service Provider
	Check sludge level in all tanks; follow manufacturers recommendations for solids removal refilling with clean	Annually	Service Provider and Maintainer

	water with pumped		
	For seasonal use, follow manufacturers guidelines	As required based on seasonal usage	Service Provider

* Systems designed to meet treatment level A or B with UV disinfection must collect effluent sample for fecal coliform annually at a minimum.

At the time of each service visit, Form 7-2: Aerobic Treatment Unit should be completed. See <http://www.onsiteconsortium.org/omspchecklists.html>. **Sampling requirements** are specified in local operating permits. The protocol for collection of wastewater samples is specified in the Bio-Microbics Manual for Minnesota.

Items not permitted in the Bio-Microbics wastewater systems are specified in the Bio-Microbics Manual for Minnesota.



This Management Plan identifies some basic requirements for proper operation and maintenance of the Salcor 3G Ultraviolet Light (UV) disinfection device for residential use. Refer to Salcor's detailed Operation and Maintenance Manual for detailed instructions on proper operation and maintenance requirements.

Information regarding the Salcor UV disinfection device can be found at the Minnesota Pollution Control Agency's website at: <http://www.pca.state.mn.us/programs/ists/productregistration.html>.

SYSTEM COMPONENT	TASK	FREQUENCY	RESPONSIBLE PARTY
Salcor UV disinfection device	Monitor alarm ¹	On-going	Homeowner
	Check influent/effluent quality odor, color, turbidity	Every six months before cleaning and replacing the bulb	Service Provider
	Collect sample for fecal coliform bacteria	Every six months before cleaning and/or replacing the bulb	Service Provider
	Clean bulb ²	Every six months	Service Provider
	Replace bulb ²	May be needed if sampling results do not meet prescribed Treatment Level A or B	
A minimum of every two years per manufacturer requirements			Service Provider

- 1 Alarm activation as indicated by an audible or visual sign indicates the UV light bulb which disinfects the effluent may be malfunctioning. The homeowner is required to contact the Service Provider immediately to have the bulb assessed and fixed. This is a condition of the operating permit – to keep the UV bulb in working order.
- 2 The UV light on this wastewater treatment system has the potential to cause serious eye damage if you look directly at the UV light. The UV light **should never** be looked at directly. Only trained Service Providers can clean and replace UV light bulbs.

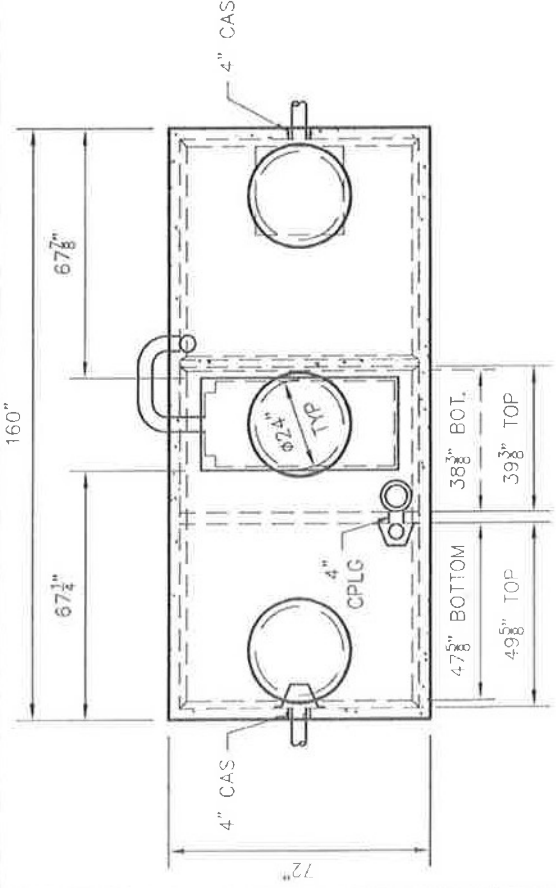
Additional sampling requirements are specified in local operating permits. The protocol for collection of wastewater samples is specified in the Salcor O&M manual.

**WLP550/450/650-FDL BIO 500
GPD MICROFAST[®]0.5
TANK SPECIFICATIONS**

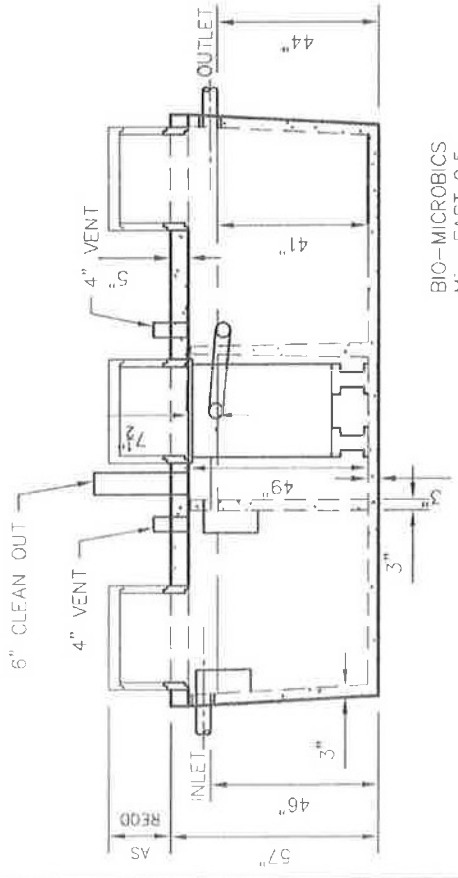
DIMENSIONS:
 WALL: 3"
 BOTTOM: 3"
 COVER: 5"
 MANHOLE: 24" I.D. PRECAST CONCRETE RISER
 HEIGHT: 57"
 LENGTH: 160" O.D.
 WIDTH: 72" O.D.
 BELOW INLET: 46" O.D.
 LIQUID LEVEL: 41"
 WEIGHT: 15,000 LBS.

INLET AND OUTLET:
 4" CAST-A-SEAL BOOT OR EQUAL
INLET AND OUTLET BAFFLE AND FILTER:
 SEE DETAIL #10
LIQUID CAPACITY: 13.61 GAL/IN (SEPTIC)
 11.13 GAL/IN (BIO)
 15.93 GAL/IN (PUMP)
LOADING DESIGN: 8' 0" UNSATURATED SOIL
COVER: MIX DESIGN #8 (NO FIBER)
TANK: MIX DESIGN #9 (SMALL FIBER)

CUSTOMIZED TANKS:
 FOR CUSTOM TANKS CONTACT WIESER CONCRETE



TOP VIEW



SIDE VIEW

TANKS ARE MANUFACTURED TO MEET OR EXCEED ASTM C-1227 REQUIREMENTS

**DRAWINGS SUBMITTED
FOR APPROVAL**

APPROVED BY: _____
 APPROVAL DATE: _____
 PRODUCTS NEEDED BY: _____

SHEET NO.
 1 OF 1

WLP550/450/650-FDL
 500 GPD
 SEPTIC MANUAL

**WIESER
CONCRETE**
 W3716 US HWY 10 MAIDEN ROCK, W 54750
 800-325-8456

FILE: WLP550-450-650-FDL MICROFAST 500
 DATE: 00/00/00
 DRAWN BY: WCP
 SCALE: 1/4"=1'-0"
 REV. _____
 POST-POUR: _____
 PRE-POUR: _____

AITKIN COUNTY ENVIRONMENTAL SERVICES

APPLICATION for an OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

PERMITTEE Ron Schreckenhurst PARCEL NUMBER 24-1-086400

ADDRESS 32681-355th Ave Aitkin MN 56431

LEGAL DESCRIPTION _____

TELEPHONE # 612-363-3404 GIS LOCATION _____

A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM:
(Attach ISTS site evaluation and design; estimated cost of system construction, operation, monitoring, service, component replacement, and management; anticipated system life, hydraulic and organic loading rates)

Install 2 Wieser three compartment treatment tank with 2 microfast O.S. Treatment unit. Reuse existing mound.

B. MONITORING PLAN AND REPORTING FREQUENCY:

PARAMETER	COMPLIANCE LIMIT	SAMPLE LOCATION	SAMPLE FREQUENCY	SAMPLE TYPE	REPORTING FREQUENCY
FLOW	450 gpd	Timer	Annual	recording	Annual
5-DAY BOD	N/A				
TOTAL NITROGEN					
TOTAL PHOSPHORUS					
TSS					
FATS, OILS AND GREASE		L			
FECAL COLIFORM	1000 per 100ml	Pump Tank	Annual	drop sample	Annual
SEPARATION DISTANCE	12"				

_____ will perform the monitoring of this septic system.

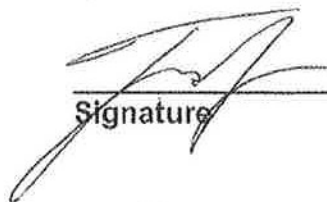
C. MAINTENANCE PLANS

PARAMETER	LOCATION	FREQUENCY

D. MITIGATION PLAN:

Adjust treatment & timer if necessary.

I hereby certify with my signature as the designer, that all data for the operating permit application is true and correct to the best of my knowledge. I agree to indemnify and hold Aitkin County harmless from loses, damages, costs and charges that may be incurred by the County because of the information submitted with this application.



 Signature

2624

 License Number

4/27/17

 Date

Travis Johnson

 Name (please print)

6074 Keystone Rd Mticez

 Address

320-983-2447

 Telephone #

AITKIN COUNTY ZONING

PERMIT NUMBER **42731**

PARCEL NUMBER 24-1-086400

Location 9 2 11 46 26
Lot Block Gov't. Lot Section Twp. Rge.

Issued May 5, 2017 To Ron Schreckenghaust

Nature of Authorization "Other" septic system
with operating permit # 527

New Construction _____ Alteration _____

Sewer Installation

Flood Plain and Lowest Floor Elev. _____

NOTE:

This permit must be posted in a conspicuous place on premises on which work is to be done and remain until work has been completed and inspected.

This permit expires one year from date of issuance
NOT TRANSFERABLE

Kaleas.

ZONING ADMINISTRATOR

No Portion of any Sewage Disposal System shall be Covered Prior to Inspection.

AITKIN COUNTY
CERTIFICATE OF INSTALLATION/~~NOTICE OF NONCOMPLIANCE~~

This certificate of installation/~~notice of noncompliance~~ has been issued this 15th day of May, 2017 to certify compliance/~~noncompliance~~ with Aitkin County's Subsurface Sewage Treatment System Ordinance.

The premises covered by this certificate are legally described as: _____
Lot 9 Block 2 ALLIES DUCK PASS

Section 11 Township 46 Range 26 Lake Section 10 Lake
PERMIT NO. 42731 Owner Name Rose Olson
Address 32681 355th Ave, Aitkin, MN 56431
Installer Name _____ Septic Check _____
Type of System Inspected _____ Tank replacement _____
Parcel Number 24-1-086400

The certificate of installation/~~notice of noncompliance~~ was based on No 1 of the following:

- 1) Inspection of the installation or construction as in accordance with the above referenced permit and application design.

- 2) Review of as-built plans submitted in accordance with Subdivision 9.2 D of Aitkin County's Subsurface Sewage Treatment System Ordinance.

If the above permitted subsurface sewage treatment system is in noncompliance with Aitkin County's Subsurface Sewage Treatment System Ordinance, then the following shall serve as a Notice of Violation:

- 1) Statement of the findings of fact through inspections or investigations:

- 2) List of specific violations of Ordinance: _____

- 3) Requirements for correction or removal of violations: _____

- 4) Time schedule for compliance: _____

Failure to correct or remove the above violation(s) will result in this matter being turned over to the Aitkin County Attorney's Office for further legal action, which may result in revocation of licenses or registrations, fines and/or imprisonment.

INSPECTOR SIGNATURE Bryan Hargrave

**INDIVIDUAL SEWAGE TREATMENT SYSTEM INSPECTION FORM
AITKIN COUNTY, MINNESOTA**

Township Nordland Date of Inspection 5/11/2017 Permit Number 42731
 Owner Rose Olson Parcel Number 24-1-086400
 Project Address 32681 355th Ave Installer Septic Check
 City Aitkin Zip Code 56431 Replacement tank

New Repair

DIST. or DROP BOX & TYPE _____

SETBACKS:

Buildings to tank(s) _____
 Buildings to drainfield _____
 Well(s) 50' or 100' _____
 Lake/Creek/Wetland _____

TRENCHES, BEDS, OR GRAVELLESS LEACHFIELD:

Trench depth _____
 Trench length _____
 Trench bottom width _____
 Trench spacing _____
 Drainfield rock below pipe _____
 Size of gravelless pipe _____
 Depth of backfill _____
 Absorption area: square feet _____
 lineal feet _____

SEPTIC TANKS: New Existing _____

Number of tanks installed 1

Liquid capacity and type Weiser 1650 Tri-chamber

Type of baffle Plastic

Inspection pipes 1 6"

Manholes size 24"

Manhole to grade Yes No _____

30" risers

MOUNDS: Existing

Percent slope _____

Upslope dike width _____

Downslope dike width _____

Sideslope dike width _____

PUMPS: New Existing _____

Tank capacity and type 650G Pump tank - part of

Pump manufacturer & model # Champion Tank

Horsepower & GPM 0.4 HP 29GPM CPE 4A

Feet of head 16.1' min.

Gallons per cycle 75G/cycle

Size of discharge line 2"

Type & location of alarm Elec Alarm on tank

Water meter Event counter on tank

Drainfield rock below pipe _____

Depth of sand below rock _____

Perforation size & spacing _____

Pipe size & spacing _____

Dimensions of rock bed _____

Dimensions of sand base _____

Final cover _____

DRAWING OF SYSTEM: (include soils)

Inspector's Comments: Tank has pretreatment unit in middle Chamber. Tying in to existing 10'x37' mound.
550G/450 PT chamber / 650 Bio Weiser tank
 Inspector's Signature Bryan Hargrave Installer's Signature _____

Permit 42.731
24-1-086400
Septic Check
5/11/2017

355TH AVE



Section 10
Lake



Minnesota Pollution Control Agency

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

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.

Submit completed form to Local Unit of Government (LUG) and system owner within 15 days

Included for Soils information
System replaced with pretreatment 1' separation req.

For local tracking purposes:

letter sent 3-14-17

System Status

System status on date (mm/dd/yyyy): 3/2/2017

Compliant – Certificate of Compliance
(Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)

Noncompliant – Notice of Noncompliance
(See Upgrade Requirements on page 3.)

Reason(s) for noncompliance (check all applicable)

- Impact on Public Health (Compliance Component #1) – Imminent threat to public health and safety
- Other Compliance Conditions (Compliance Component #3) – Imminent threat to public health and safety
- Tank Integrity (Compliance Component #2) – Failing to protect groundwater
- Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwater
- Soil Separation (Compliance Component #4) – Failing to protect groundwater
- Operating permit/monitoring plan requirements (Compliance Component #5) – Noncompliant

Property Information

Parcel ID# or Sec/Twp/Range: 24-1-086400

Property address: 32681 355th Ave Aitkin MN 56431 Reason for inspection: Property Transfer

Property owner: Ron Schreckenghaust Owner's phone: 6123633404

or

Owner's representative: _____ Representative phone: _____

Local regulatory authority: Aitkin County Regulatory authority phone: 218-927-7342

Brief system description: 750/250 Combo tank to a mound.

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.

Inspector name: Tom O'neil Certification number: 3365

Business name: _____ License number: 2132

Inspector signature: Tom O'neil Phone number: (218)927-6070

Necessary or Locally Required Attachments

- Soil boring logs
- System/As-built drawing
- Forms per local ordinance
- Other information (list): _____

1. Impact on Public Health – Compliance component #1 of 5

Compliance criteria:

System discharges sewage to the ground surface.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System discharges sewage to drain tile or surface waters.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System causes sewage backup into dwelling or establishment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

Comments/Explanation:

Verification method(s):

- Searched for surface outlet
- Searched for seeping in yard/backup in home
- Excessive ponding in soil system/D-boxes
- Homeowner testimony (See Comments/Explanation)
- "Black soil" above soil dispersal system
- System requires "emergency" pumping
- Performed dye test
- Unable to verify (See Comments/Explanation)
- Other methods not listed (See Comments/Explanation)

2. Tank Integrity – Compliance component #2 of 5

Compliance criteria:

System consists of a seepage pit, cesspool, drywell, or leaching pit. <i>Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No
Sewage tank(s) leak below their designed operating depth. If yes, which sewage tank(s) leaks:	<input type="checkbox"/> Yes <input type="checkbox"/> No

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

Comments/Explanation:

Tank not pumped due to failing drainfield

Verification method(s):

- Probed tank(s) bottom
- Examined construction records
- Examined Tank Integrity Form (Attach)
- Observed liquid level below operating depth
- Examined empty (pumped) tanks(s)
- Probed outside tank(s) for "black soil"
- Unable to verify (See Comments/Explanation)
- Other methods not listed (See Comments/Explanation)

3. Other Compliance Conditions – Compliance component #3 of 5

- a. Maintenance hole covers are damaged, cracked, unsecured, or appear to be structurally unsound. Yes* No Unknown
- b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. Yes* No Unknown
***System is an imminent threat to public health and safety.**

Explain:

- c. System is non-protective of ground water for other conditions as determined by inspector. Yes* No
***System is failing to protect groundwater.**

Explain:

4. Soil Separation – Compliance component #4 of 5

Date of installation: 7/26/1983 Unknown
(mm/dd/yyyy)
Shoreland/Wellhead protection/Food beverage lodging? Yes No

Compliance criteria:

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: Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Non-performance systems built April 1, 1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment: Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080.2350 or 7080.2400 (Advanced Inspector License required) Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.	<input type="checkbox"/> Yes <input type="checkbox"/> No

Any "no" answer above indicates the system is failing to protect groundwater.

Verification method(s):

Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local requirements differ.

- Conducted soil observation(s) (Attach boring logs)
- Two previous verifications (Attach boring logs)
- Not applicable (Holding tank(s), no drainfield)
- Unable to verify (See Comments/Explanation)
- Other (See Comments/Explanation)

Comments/Explanation:

Indicate depths or elevations

A. Bottom of distribution media	100.1
B. Periodically saturated soil/bedrock	98.8
C. System separation	1.3
D. Required compliance separation*	31" - (2.55')

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

5. Operating Permit and Nitrogen BMP* – Compliance component #5 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? 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. Operating Permit number: _____ Have the Operating Permit requirements been met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
b. Is the required nitrogen BMP in place and properly functioning?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Any "no" answer indicates Noncompliance.

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.

AITKIN COUNTY SHORELAND PERFORMANCE (Structure Placement Guidance)

A property should obtain a score of 100 or more to meet performance standard requirements. A conforming lot is assigned a score of 100. A lot is deemed conforming when the structure meets the required setbacks to the protected water as specified in the Aitkin County Shoreland Management Ordinance (SMO). A structure that fails to meet this definition is considered non-conforming.

To determine the level of non-conformance and score (See Reference Table):

- 1) Determine the DNR classification of the protected water on the lot (SMO-4.13 & 4.14) 1: Rec Lake
- 2) Determine the required "Structure Setback" to that classification of water (SMO 5.2) 2: 100 ft
- 3) Determine the "Actual Setback" of the structure by measuring the closest part of the structure to the protected water, bluff, right-of-way, property line, etc. for which a variance is sought..... 3: 60 ft
- 4) Enter the corresponding 'Score Multiplier' 4: 1.0
- 5) Pre-mitigation 'Lot Score': Determine the percentage of the encroachment as it relates to the standard setback by multiplying the Actual Setback with the 'Score Multiplier' (Note: round to the nearest whole number) 5: 60

Reference Table: Performance Multipliers for structures, septic, bluff, and sidelots in Aitkin County.

Protected Waters Type (DNR Classification; SMO 4.13-4.14)	Required Structure Setback	Score Multiplier Structures	Required Septic Setback	Score Multiplier Septic	Score Multiplier Bluff	Score Multiplier Sidelot
General Development Lake	75'	1.333	75'	1.333	(30' setback) 3.33	(10' setback) 10.000
Recreational Development Lake	100'	1.000	75'	1.333		
Natural Environment Lake	150'	0.667	150'	0.667		
Mississippi River	150'	0.667	125'	0.800		
Tributary Stream	100'	1.000	75'	1.333		
Forested Stream	150'	0.667	100'	1.000		
Remote Stream	200'	0.500	150'	0.667		

Mitigation: To bring a non-conforming structure to a score of 100 the landowner conducts and maintains one or more of the below listed mitigating activities:

- A) Zone A(1): Plant and/or maintain a 12.5' wide natural vegetated buffer zone adjacent to the OHW and record deed restrictions to maintain vegetation in its natural state, prohibit mowing or vegetation removal.* Water access as defined in the Shoreland Management Ordinance is allowed (Section 5.31.B.2.c)..... **15 points**
- Zone A(2): Plant and/or maintain a 25' wide natural vegetated buffer zone adjacent to the OHW and record deed restrictions to maintain vegetation in its natural state, prohibit mowing or vegetation removal.* Water access as defined in the Shoreland Management Ordinance is allowed (Section 5.31.B.2.c)..... **30 points**
- B) Zone B: Plant and/or maintain an additional 12.5' wide natural vegetated buffer zone between Zone A landward. Record deed restrictions to maintain vegetation in its natural state, prohibit mowing or vegetation removal.* A ten-foot (10') access path is allowed. **20 points**
- C) Zone C: Plant and/or maintain an additional 12.5' wide natural vegetated buffer zone between Zone B landward. Record deed restrictions to maintain vegetation in its natural state, prohibit mowing or vegetation removal.* A ten-foot (10') access path is allowed. **10 points**
- D) Construction of rain garden(s) to Wisconsin DNR Manual specifications..... **20 points**
- E) Removal of all other structures that do not meet the standard building setbacks, including water oriented structures..... **20 points**
- F) Removal of impervious surfaces to at least half ordinance limits (SMO 5.52.A)..... **10 points**
- G) Removal of fill all placed in historic wetlands and guarantee of no future wetland fill recorded on deed..... **10 points**
- H) Re-vegetate bluff or steep slopes* and provide screening of structures from the lake. **10 points**
- I) Diversion of all water runoff from impervious surfaces away from the lake into retention ponds, subsurface drains, wetlands, etc. with no outlet to the lake or tributary **10 points**
- J) Existing conditions may apply on the property that warrant credit..... **To be determined by P&Z**

Final Score = Pre-mitigation Lot Score (Line 5) 60 + Mitigation Totals (Lines A-I) 35 = 95

*Note: Plant materials for vegetative buffers shall be native to northern Minnesota. For every 5,000 square feet of buffer area, there shall be a minimum of four types of trees, six types of shrubs, seven forbs, and three grasses planted to achieve a one plant per square foot minimum coverage. Survival of all plants must be guaranteed for a minimum of 5 years

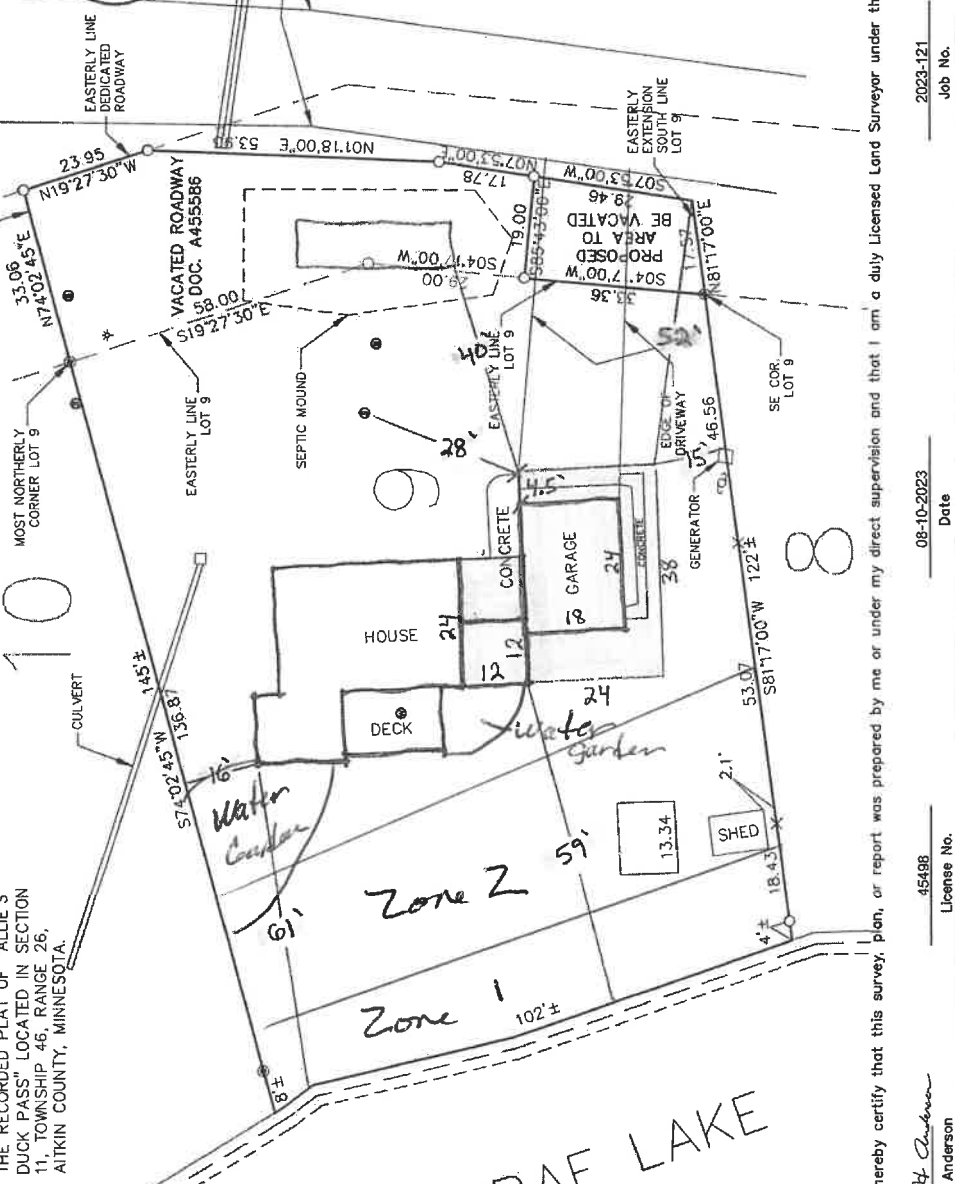
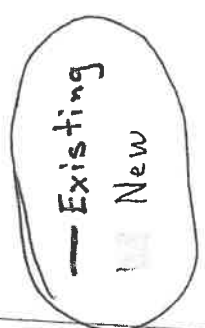
Board of Adjustment Chairperson

Byron Anderson
Applicant

STRAIGHTLINE SURVEYING, INC.
 P.O. Box 510, 530 East Blvd
 Waseca Lake, MN 55987
 Telephone (218)-465-4811
 Fax (218)-465-4811
 E-MAIL: bender@straightlinesurveying.com

SURVEY FOR: BRYON ANDERSON
 1903 WEST MARK STREET
 WINONA, MN 55987

SURVEY OF: LOT 9, BLOCK 2 AND PART OF THE
 ADJACENT VACATED ROADWAY OF
 THE RECORDED PLAT OF "ALLIE'S
 DUCK PASS" LOCATED IN SECTION
 11, TOWNSHIP 46, RANGE 26,
 AITKIN COUNTY, MINNESOTA.



- ⊙ DENOTES FOUND IRON MONUMENT
- DENOTES 3" IRON REBAR MONUMENT SET AND CAPPED "ANDERSON 45498"
- ✕ DENOTES 60# SPIKE SET
- * DENOTES FLAG POLE
- ⊙ DENOTES POWER POLE
- ⊙ DENOTES WELL
- ⊙ DENOTES SEPTIC TANK COVER
- DENOTES CATCH BASIN

I hereby certify that this survey, plan, or report was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor under the laws of the State of Minnesota.

Benjamin H. Anderson
 Benjamin H. Anderson
 License No. 45498
 Date 08-10-2023
 Job No. 2023-121
 Book No. AITKIN 3 P.44

WLADIMIRAF LAKE

EROSION CONTROL PLAN CHECKLIST

**Check the box if completed (leave empty if not applicable).
All items checked must be included on the site diagram.**

Site Characteristics

- North arrow, scale, and site boundary. Indicate and name adjacent streets or roadways.
- Location of existing drainageways, streams, rivers, lakes, wetlands or wells.
- Location of storm sewer inlets.
- Location of existing and proposed buildings and paved areas.
- The disturbed area on the lot.
- Approximate gradient and direction of slopes before grading operations.
- Approximate gradient and direction of slopes after grading operations.
- Overland runoff (sheet flow) coming onto the site from adjacent areas.

Erosion Control Practices

- Location of temporary soil storage piles.
Note: Soil storage piles should be placed behind a sediment fence, a 10 foot wide vegetative strip, or should be covered with a tarp or more than 25 feet from any downslope road or drainageway.
- Location of access drive(s) (driveways, turnarounds, approaches, etc.)
- Location of sediment controls (filter fabric fence, straw bale fence or 10-foot wide vegetative strip) that will prevent eroded soil from leaving the site.
- Location of sediment barriers around on-site storm sewer inlets.
- Location of diversions.
Note: Although not specifically required by code, it is recommended that concentrated flow (drainageways) be diverted (re-directed) around disturbed areas. Overland runoff (sheet flow) from adjacent areas greater than 10,000 sq. ft. should also be diverted around disturbed areas.
- Location of practices that will be applied to control erosion on steep slopes (greater than 12% grade).
Note: Such practices include maintaining existing vegetation, placement of additional sediment fences, diversions, and re-vegetation by sodding or seeding with use of erosion control mats.
- Location of practices that will control erosion on areas of concentrated runoff flow.
Note: Unstabilized drainageways, ditches, diversions, and inlets should be protected from erosion through use of such practices as in-channel fabric or straw bale barriers, erosion control mats, staked sod, and rock rip-rap. When used, a given in-channel barrier should not receive drainage from more than two acres of unpaved area, or one acre of paved area. In-channel practices should not be installed in perennial streams (streams with year round flow).
- Location of other planned practices not already noted.

**Check the box if completed (leave empty if not applicable).
All items checked must be included on the site diagram.**

Management Strategies

- Temporary stabilization of disturbed areas.
Note: It is recommended that disturbed areas and soil piles left inactive for extended periods of time be stabilized by seeding (between April 1 and September 15), or by other cover, such as tarping or mulching.
- Permanent stabilization of site by re-vegetation or other means as soon as possible (lawn establishment).
• Indicate re-vegetation method: (Circle one of the following) Seed Sod
Other _____
• Expected date of permanent re-vegetation: 9-15-2024
• Re-vegetation responsibility of: (Circle one of the following)
Builder Owner/Buyer
• Is temporary seeding or mulching planned if site is not seeded by Sept. 15 or sodded by Nov. 15? (Circle one of the following) Yes No
- Use of downspout and/or sump pump outlet extensions.
Note: It is recommended that flow from downspouts and sump pump outlets be routed through plastic drainage pipe to stable areas such as established sod or pavement.
- Trapping sediment during de-watering operations.
Note: Sediment-laden discharge water from pumping operations should be ponded behind a sediment barrier until most of the sediment settles out.
- Proper disposal of building material waste so that pollutants and debris are not carried off-site by wind or water.
- Maintenance of erosion control practices.
• Sediment will be removed from behind sediment fences and barriers before it reaches a depth that is equal to half the height of the barrier.
• Breaks and gaps in sediment fences and barriers will be repaired immediately. Decomposing straw bales will be replaced (typical bale life is three months).
• All sediment that moves off-site due to construction activity will be cleaned up before the end of the same workday.
• All sediment that moves off-site due to storm events will be cleaned up before the end of the next workday.
• Access drives will be maintained throughout construction.
• All installed erosion control practices will be maintained until the disturbed areas they protect are stabilized.

PART VII: STANDARD EROSION CONTROL PLAN

According to Aitkin County's Shoreland Management Ordinance, soil erosion control information needs to be included on the site plan which is submitted and approved prior to the issuance of zoning permits. The Standard Erosion Control Plan is provided to assist in meeting this requirement.

Instructions:

1. Complete this plan by filling in requested information, completing the site diagram and marking appropriate boxes on the inside of this form.
2. In completing the site diagram, give consideration to potential erosion that may occur before, during and after grading. Water runoff patterns can change significantly as a site is reshaped.
3. A cross section sheet is required for walkout basements and excavations into hillsides for determining volume of fill to be excavated.

Project Location 32681 355 Av. Aitkin MN 56431

Builder Hill Construction Owner Bryan + Marcia Anderson

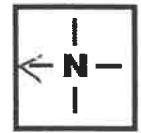
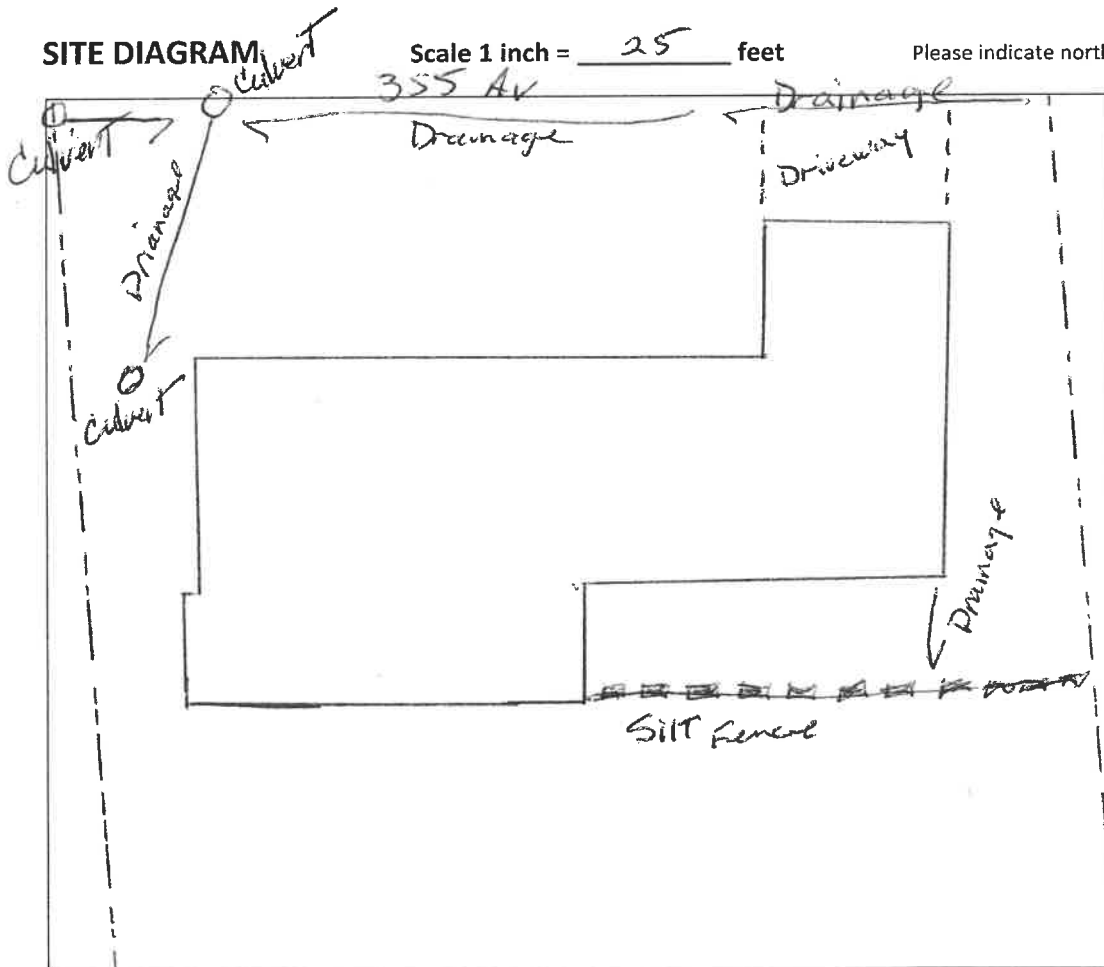
Worksheet Completed By Bryan Anderson Date 3-7-2024

Amount of earthen material to be excavated and/or used for fill 10 cubic yards.

SITE DIAGRAM

Scale 1 inch = 25 feet

Please indicate north by completing the arrow.



EROSION CONTROL PLAN LEGEND

- PROPERTY LINE
- EXISTING DRAINAGE
- TEMPORARY DIVERSION
- FINISHED DRAINAGE
- LIMITS OF GRADING
- SILT FENCE
- STRAW BALES
- GRAVEL
- VEGETATION SPECIFICATION
- TREE PRESERVATION
- STOCKPILED SOIL

Doc No: **A456042**

WAD 3/4

REC FEE \$46.00

NO DELINQUENT TAXES AND TRANSFER ENTERED
THIS 18 DAY OF Mar 2020
CERTIFICATE OF REAL ESTATE VALUE
(FILED - CRV# 47214 () NOT REQUIRED)

Certified, Filed and/or Recorded on
3/18/2020 9:00 AM

Office of the County Recorder
Aitkin County, Minnesota
Michael T. Moriarty, County Recorder

Package: **65544** Mick

Kurt Poyar
AITKIN COUNTY AUDITOR
Elizabeth Harmon
DEPUTY

(Top 3 inches reserved for recording data)

WARRANTY DEED
Individual(s) to Individual(s)

Minnesota Uniform Conveyancing Blanks
Form 10.1.1 (2018)

eCRV number: 1072048

DEED TAX DUE: \$ 560.67

DATE: March 13, 2020
(month/day/year)

FOR VALUABLE CONSIDERATION, Warren D. Pederson and Cindy K. Pederson, spouses married to each other
(insert name and marital status of each Grantor)

_____ ("Grantor"),

hereby conveys and warrants to Bryon J. Anderson and Marcia F. Anderson
(insert name of each Grantee)

_____ ("Grantee"), as

(Check only one box.) tenants in common, (if more than one Grantee is named above and either no box is checked or both boxes are checked, this conveyance is made to the named Grantees as tenants in common.)
 joint tenants,

real property in Aitkin County, Minnesota, legally described as follows:

→ See Exhibit A for legal description.

Check here if all or part of the described real property is Registered (Torrens)

together with all hereditaments and appurtenances belonging thereto, subject to the following exceptions:

Check applicable box:

- The Seller certifies that the Seller does not know of any wells on the described real property.
- A well disclosure certificate accompanies this document or has been electronically filed. (If electronically filed, insert WDC number: _____.)
- I am familiar with the property described in this instrument and I certify that the status and number of wells on the described real property have not changed since the last previously filed well disclosure certificate.

Grantor

Warren D. Pederson

(signature) Warren D. Pederson

Cindy K. Pederson

(signature) Cindy K. Pederson

(signature)

(signature)

State of Minnesota, County of Aitkin

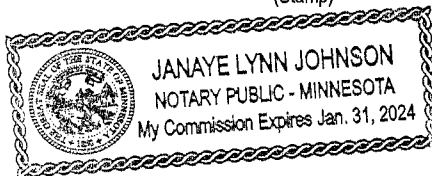
This instrument was acknowledged before me on March 11, 2020, by Warren D. Pederson and Cindy K. Pederson,

(month/day/year)

spouses married to each other

(insert name and marital status of each Grantor)

(Stamp)



Janaye Lynn Johnson

(signature of notarial officer)

Title (and Rank): _____

My commission expires: _____
(month/day/year)

THIS INSTRUMENT WAS DRAFTED BY:
(insert name and address)

Esquire Title Service, LLC
204 2nd Street NW
Aitkin, MN 56431

File 20-0188

TAX STATEMENTS FOR THE REAL PROPERTY DESCRIBED IN THIS INSTRUMENT SHOULD BE SENT TO:
(insert legal name and residential or business address of Grantee)

Bryon J. Anderson and Marcia ^{F.} Anderson
87 Wenonah Road
Minnesota City, MN 55959

AITKIN COUNTY DEED TAX

No. 13287 Date 3-18-20

560.67 Dollars Paid

Lou Grams
COUNTY TREASURER

By Blade Deputy

EXHIBIT A

File No.: 20-0188

Parcel 1:

→ Lot 9, Block 2, Allie's Duck Pass, Aitkin County, Minnesota

→ And vacated road described as follows:

That part of the dedicated road lying adjacent to Lot 9 Block 2, Allie's Duck Pass, Aitkin County, Minnesota, according to the plat of record on file in the office of the county recorder, in and for said county, described as follows: Beginning at the most northerly corner of said Lot 9, thence South 19 degrees 27 minutes 30 seconds East, assumed bearing, 58.00 feet along the easterly line of said Lot 9; thence South 4 degrees 17 minutes 00 seconds West 29.00 feet continuing along the Easterly line of said Lot 9; thence south 55 degrees 43 minutes 00 seconds east 19.00 feet; thence North 7 degrees 53 minutes 00 seconds East 20.00 feet; thence North 1 degree 18 minutes 00 seconds East 68.42 feet to the Easterly line of said dedicated roadway; thence North 19 degrees 27 minutes 30 seconds West 16.14 feet along the Easterly line of said dedicated roadway to its intersection with the Easterly projection of the Northerly line of said Lot 9; thence South 73 degrees 59 minutes 35 seconds West 33.06 feet along said projected line to the point of beginning.

Parcel 2:

→ THAT PART OF THE VACATED DEDICATED ROAD LYING ADJACENT TO LOT 9 BLOCK 2, ALLIE'S DUCK PASS, AITKIN COUNTY, MINNESOTA, ACCORDING TO THE PLAT OF RECORD ON FILE IN THE OFFICE OF THE COUNTY RECORDER, IN AND FOR SAID COUNTY, AND THAT PART OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER (SW1/4-NE1/4) OF SECTION 11, TOWNSHIP 46, RANGE 26, SAID COUNTY, DESCRIBED AS FOLLOWS: COMMENCING AT THE MOST NORTHERLY CORNER OF SAID LOT 9, THENCE NORTH 74 DEGREES 02 MINUTES 45 SECONDS EAST, ASSUMED BEARING, 16.53 FEET ALONG THE EASTERLY PROJECTION OF THE NORTH LINE OF SAID LOT 9 TO THE CENTERLINE OF SAID VACATED ROAD, THE POINT OF BEGINNING OF THE TRACT TO BE DESCRIBED; THENCE SOUTH 19 DEGREES 27 MINUTES 30 SECONDS EAST 24.96 FEET ALONG SAID CENTERLINE; THENCE NORTH 70 DEGREES 32 MINUTES 30 SECONDS EAST 16.50 FEET TO THE EASTERLY LINE OF SAID VACATED ROAD ALSO BEING THE WESTERLY RIGHT OF WAY LINE OF 355TH AVENUE; THENCE NORTH 1 DEGREES 18 MINUTES 00 SECONDS EAST 25.03 FEET ALONG SAID WESTERLY RIGHT OF WAY LINE TO ITS INTERSECTION WITH THE EASTERLY PROJECTION OF THE NORTH LINE OF SAID LOT 9; THENCE SOUTH 74 DEGREES 02 MINUTES 45 SECONDS WEST 25.42 FEET ALONG SAID PROJECTION TO THE POINT OF BEGINNING.

Property Location

Property:	Property Location			Legal Description			Property Attributes		Owner Information	Tax Payer Information
	Parcel Number	Property Address	Township or City Name	Legal Description	Plat Name	Section-Township-Range	Lake Class	Lake Name	Owner Name(s)	Taxpayer Name(s)
	07-0-056704	29662 417th PI AITKIN, MN 56431	FARM ISLAND TWP	.39 AC OF LOTS 2 & 4 IN DOCS 158215 & 324620		S:26 T:46 R:27	RD	SPIRIT LAKE	MORRISON, DONALD & SUSANNE TRUST	MORRISON, DONALD & SUSANNE TRUST
Driving directions to the proposed project from Aitkin:	<p>Aitkin County Court house 209 2nd St NW, Aitkin, MN 56431 1. Head east on 2nd St NW toward 1st Ave NW .2 miles 2. Turn right onto US-169 S / Minnesota Ave N Continue to follow US-169 S 1.2 miles 3. At the traffic circle, continue straight to stay on US-169 S 4.0 miles 4. Turn left onto Diamond Lake St .9 miles 5. Turn right onto 420th Ave .3 miles 6. Turn left onto 417th PI .4 miles Destination will be on the left 29662 417th PI Aitkin, MN 56431</p>									
Is the above parcel located in the Shoreland Zoning District?	<u>Yes</u>									

Detailed Narrative

<p>Enter a Detailed Narrative (If you have a prepared narrative please state "See attached" and attach the document below):</p>	<p>The existing home is a noncomplying structure within the 50 foot setback of the ordinary high water level; it currently sits about 30 feet from the shoreline. The home itself is roughly 20x35 feet with a small 8x13 and 8x10 addition on the back of the house that faces away from the shoreline. The proposal is square off the back addition to add about 184 square feet of living space. The homeowners, who are the trustees of the the trust that owns the home, are in their 70s and desire to move to Aitkin full time. Squaring off the home would provide additional living space that would make it possible for them to live in the cabin year round. Additionally, Susan Morrison requires a walker to get around. Their current home in Elk River has two stories; their cabin in Aitkin is one story and it would be much easier for both owners to get around their home.</p> <p>It has been suggested that the home could be moved 20 feet away from the OHWL to meet the 50 foot set back. The proposed project would produce much less environmental impact. According to the contractor, R & R Landscaping, moving the home would require excavation of soil, excavating and moving the slab, moving sewer pipes, potentially cutting down trees, and revegetation of any damaged vegetation after completion of the job. Simply squaring off the back of the home would accomplish the owners' goals with minimal environmental impact.</p>
<p>Provide the Ordinance(s) and the Section(s) of the Ordinance(s) from which you are requesting a variance:</p>	<p>Zoning Ordinance Section 12, Shoreland Management Ordinance 6.1, 5.21</p>
<p>Are you requesting a variance to a road right-of-way setback in one of these Townships? Fleming, Glen, Lakeside, Pliny, Shamrock, Wagner</p>	<p><u>No</u></p>

Supplemental Data

<p>Attach completed form here:</p>	<p>File 1:  supplemental-data.pdf</p>
------------------------------------	--

A Scaled Drawing or Survey

Scaled Drawing or Survey Checklist:	<p><u>Location and dimensions for all lot lines.</u></p> <p><u>Location and dimensions of all existing and proposed structures/additions.</u></p> <p><u>Location and depth of all existing and proposed wells within 100 feet of the property.</u></p> <p><u>Location and dimensions of all existing and proposed septic system components (septic tank, septic drainfield).</u></p> <p><u>Location and dimensions of all existing and proposed driveways, road right-of-ways, and easements.</u></p> <p><u>Indicate all setback distances for items listed above: ordinary high water level of lakes or rivers, lot lines, road right-of-ways, etc.</u></p>
Attach a Scaled Drawing or Survey:	<p>File 1: image000000.pdf</p>

Certificate of Septic Compliance

<p>Please attach a copy of one of the following:</p> <ul style="list-style-type: none">- A current compliance inspection on the existing septic system.- A design for a new/replacement septic system.	<p>File 1: showdoc.pdf</p>
---	--

Shoreland Performance Worksheet

Complete the Shoreland Performance Worksheet and attach here:	<p>File 1: shoreland_note.pdf</p> <p>File 2: shoreland-performance.pdf</p>
---	--

Standard Erosion Control Plan

Attach the completed Standard Erosion Control Plan here:	<div data-bbox="485 188 1482 290" style="border: 1px dashed black; padding: 5px;">File 1: erosion-control-plan.pdf File 2: image000000.pdf</div>
--	--

Property Deed

Attach the property deed(s):	<div data-bbox="485 492 1482 548" style="border: 1px dashed black; padding: 5px;">File 1: MORRISON_DEED.pdf</div>
------------------------------	---

Terms

General Terms

<p>The landowner or authorized agent hereby certifies that to the best of their knowledge the application and supporting documents are a factual representation of the proposed project. The landowner or authorized agent agrees that, in making application, the landowner grants permission to Aitkin County, at reasonable times, to enter the property to determine compliance of the application with applicable Local, County or State Ordinances or Statutes. It is the applicant's responsibility to contact other Local, County or State agencies to ensure the applicant has complied with all relevant Local, County or State Ordinances or Statutes.</p>
<p>Submittal of the above materials does not always constitute a complete application. Other information may be necessary to complete the application based on the type of request and onsite inspection.</p>
<p>I acknowledge that by submitting this application, the application and its attachments are public information.</p>

Invoice #59866 (03/08/2024) Expected Payment Method: Pay Online - Card or ECheck

Charge	Cost	Quantity	Total
Recording Fee added 03/07/2024 5:13 PM \$46 Flat Fee	\$46.00	x 1	\$46.00
Variance added 03/07/2024 5:13 PM \$650 Flat Fee	\$650.00	x 1	\$650.00
Grand Total			
			Total
			\$696.00
			Payment 03/08/2024
			\$696.00
			Due
			\$0.00

Results ([Go to top](#))
 Signature accepted
 Failed to send [Variance Ready for Action](#) notification to:

Approvals

Approval	Signature
Applicant	Blake Lubinus - 03/08/2024 3:38 PM 8bb6eb9e126b670075f592fedb1dec09 96059f85cedeb3cca0661387bd4557d2
#1 Admin	Kim Burton - 03/11/2024 1:29 PM 7d4bc728a65fde9878d4e3ceac479b87 20e75c1cf48ce1d31eecab1e65975640
#2 Board of Adjustment	

Public Notes

Text:	Total proposed is 184 sq ft
File(s):	<div style="border: 1px dashed black; height: 20px; width: 100%;"></div>

Admin Checklist

This review has been started by:	<input type="text" value="Kim Burton"/>
Zoning District of project location:	<input type="text" value="Shoreland"/>
Project located in the floodplain?	<input type="text" value="No"/>
Is the parcel a Lot of Record before 1-21-92 or have alternate sites been identified?	<input type="text" value="Yes"/>
Is this an after-the-fact application?	<input type="text" value="No"/>

Numbers

	Current Number	Next from Sequence
UID #	210462	<i>not applicable</i>
App. #	<input type="text" value="App-2024-000760"/>	<input type="button" value="««"/> App-2024-000790
Permit #	<input type="text"/>	<input type="button" value="««"/> 2024-0103

Print View



AUTHORIZATION FORM

I hereby authorize the agent named below to act as my authorized agent for all public hearing applications and land use permits on property located at:

Parcel Numbers(s):	07-0-056704
E911 Address of Property:	29662 417th Place, Aitkin, MN 56431

Authorized Agent Information:

Agent name:	Blake D. Lubinus
-------------	------------------

Property Owner Information:

Owner name:	Donald and Susanne Morrison Trust	Phone number:	612-802-2070
Email:	donmorr1954@yahoo.com		
Property Owner Signature:	<i>Donald S Morrison</i> Trustee of Donald and Susanne Morrison Trust	Date:	03 / 07 / 2024

Title	Authorization
File name	morrison authorization.pdf
Document ID	447b2d514ae53130f376f737b6fd53ffccbed79f
Audit trail date format	MM / DD / YYYY
Status	● Signed

Document History



SENT

03 / 07 / 2024

23:19:55 UTC

Sent for signature to Donald Morrison
 (donmorr1954@yahoo.com) from allen@edshawlaw.com
 IP: 47.35.130.107



VIEWED

03 / 07 / 2024

23:24:52 UTC

Viewed by Donald Morrison (donmorr1954@yahoo.com)
 IP: 71.89.73.219



SIGNED

03 / 07 / 2024

23:27:45 UTC

Signed by Donald Morrison (donmorr1954@yahoo.com)
 IP: 71.89.73.219



COMPLETED

03 / 07 / 2024

23:27:45 UTC

The document has been completed.

PART I: SUPPLEMENTAL DATA TO VARIANCE APPLICATION

Aitkin County Environmental Services
307 Second St. NW, Room 219, Aitkin, MN 56431
Phone: 218.927.7342 Fax: 218.927.4372
www.co.aitkin.mn.us

Note: Place an “X” by each item below that applies to your variance 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.

- Setback issues for a proposed new structure: **Complete Section 1**
- Setback issues for an alteration to an existing nonconforming structure: **Complete Section 2**
- Setback issues for a septic system: **Complete Section 3**
- Land alteration: **Complete Section 4**
- Creating a lot not in conformance with the minimum Ordinance standards: **Complete Section 5**
- Other: attach separate sheet explaining variance request

Section 1 – New Structure(s)

Check all that apply and fill in requested information:

- | | |
|--|--|
| <input type="checkbox"/> Basement | <input type="checkbox"/> One Story Level |
| <input type="checkbox"/> Crawlspace | <input type="checkbox"/> Story-and-a-Half Level |
| <input type="checkbox"/> Walk-out Basement | <input type="checkbox"/> 2 nd Story Level |

Proposed # of Bedrooms _____ Proposed Structure Height _____ ft.
Existing Total Building Coverage _____% Proposed Total Building Coverage 9.5 %
Existing Total Impervious Surface Coverage 11.2 % Proposed Total Impervious Surface Coverage 12.4 %

“Building Coverage” means the ground surface covered by any building or appurtenance, including, but not limited to, decks, platforms, overhangs and projections therefrom, outdoor furnaces, fishhouses, sheds, carports, lean-to’s, or any similar building. –as per the Aitkin County Shoreland Management Ordinance.

“Impervious surface coverage” means any structure, facility or surface that sheds water including structures and facilities, sewage treatment system absorption areas (equal to 190 sq.ft./bedroom), retaining walls, and roadway surfaces and parking areas. Impervious surface does not include eaves of two feet and less. – Per the Aitkin Count Shoreland Management Ordinance.

Itemized square footage of proposed structure(s):

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.

Proposed Structure Type (indicate with or without living quarters) _____

_____ Ordinary High Water Level (OHWL)	Proposed Setback _____ ft.
_____ Property Line	Proposed Setback _____ ft.
_____ Road Right-of way ___ Twp ___ Co. ___ State	Proposed Setback _____ ft.
_____ Bluff	Proposed Setback _____ ft.
_____ Other: _____	Proposed Setback _____ ft.

Section 2 – Alteration(s) to Existing Nonconforming Structure(s)

Check all that apply and fill in requested information:

Existing Structure

Basement
 Crawlspace
 Walk-out Basement
 One Story Level
 Story-and-a-Half Level
 2nd Story Level

Proposed Addition(s)

Basement
 Crawlspace
 Walk-out Basement
 One Story Level
 Story-and-a-Half Level
 2nd Story Level

Existing Structure Height _____ ft.

Proposed Addition(s) Height _____ ft.

Existing # of Bedrooms _____

Final # of bedrooms after remodel _____

Existing Building Coverage 8.4 %

Proposed Building Coverage 9.5 %

Existing Total Impervious Surface Coverage 11.2 %

Proposed Total Impervious Surface Coverage 12.4 %

“Building Coverage” means the ground surface covered by any building or appurtenance, including, but not limited to, decks, platforms, overhangs and projections therefrom, outdoor furnaces, fishhouses, sheds, carports, lean-to’s, or any similar building. –as per the Aitkin County Shoreland Management Ordinance.

“Impervious surface coverage” means any structure, facility or surface that sheds water including structures and facilities, sewage treatment system absorption areas (equal to 190 sq.ft./bedroom), retaining walls, and roadway surfaces and parking areas. Impervious surface does not include eaves of two feet and less. – Per the Aitkin Count Shoreland Management Ordinance.

Itemized square footage of proposed structure(s):

The current structure is approximately 878 square feet. Owner is seeking to square off structure to add approximately 120 square feet to the back of the structure, away from the shoreline for a structure of approximately 1060 square feet.

See attached drawing.

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.

Proposed Alteration Type Adding a "square off" addition to the back of structure (away from shoreline) of about 120 square feet

<input type="checkbox"/> Ordinary High Water Level (OHWL)	Existing Setback _____ ft.	Proposed Setback _____ ft.
<input type="checkbox"/> Property Line	Existing Setback _____ ft.	Proposed Setback _____ ft.
<input type="checkbox"/> Road Right-of way __ Twp __ Co. __ State	Existing Setback _____ ft.	Proposed Setback _____ ft.
<input type="checkbox"/> Bluff	Existing Setback _____ ft.	Proposed Setback _____ ft.
<input checked="" type="checkbox"/> Other: <u>Addition to existing nonconforming structure</u>	Existing Setback <u>30</u> ft.	Proposed Setback <u>30</u> ft.

Section 3 – Septic System

Check the item(s) from which you are requesting a variance and fill in the proposed setback distance.

<input type="checkbox"/> Ordinary High Water Level (OHWL)	Proposed Setback _____ ft.
<input type="checkbox"/> Property Line	Proposed Setback _____ ft.
<input type="checkbox"/> Road Right-of way __ Twp __ Co. __ State	Proposed Setback _____ ft.
<input type="checkbox"/> Bluff	Proposed Setback _____ ft.
<input type="checkbox"/> Other: _____	Proposed Setback _____ ft.

Section 4 – Land Alteration

What is your land alteration? Check all categories that apply and indicate the total amount of excavation or placement of fill.

<input type="checkbox"/> More than 10 cubic yards on steep slopes and shore and bluff impact zones.	Total Cubic Yds. _____
<input type="checkbox"/> Other: _____	Total Cubic Yds. _____

Section 5 – Creating Nonconforming Lot(s)

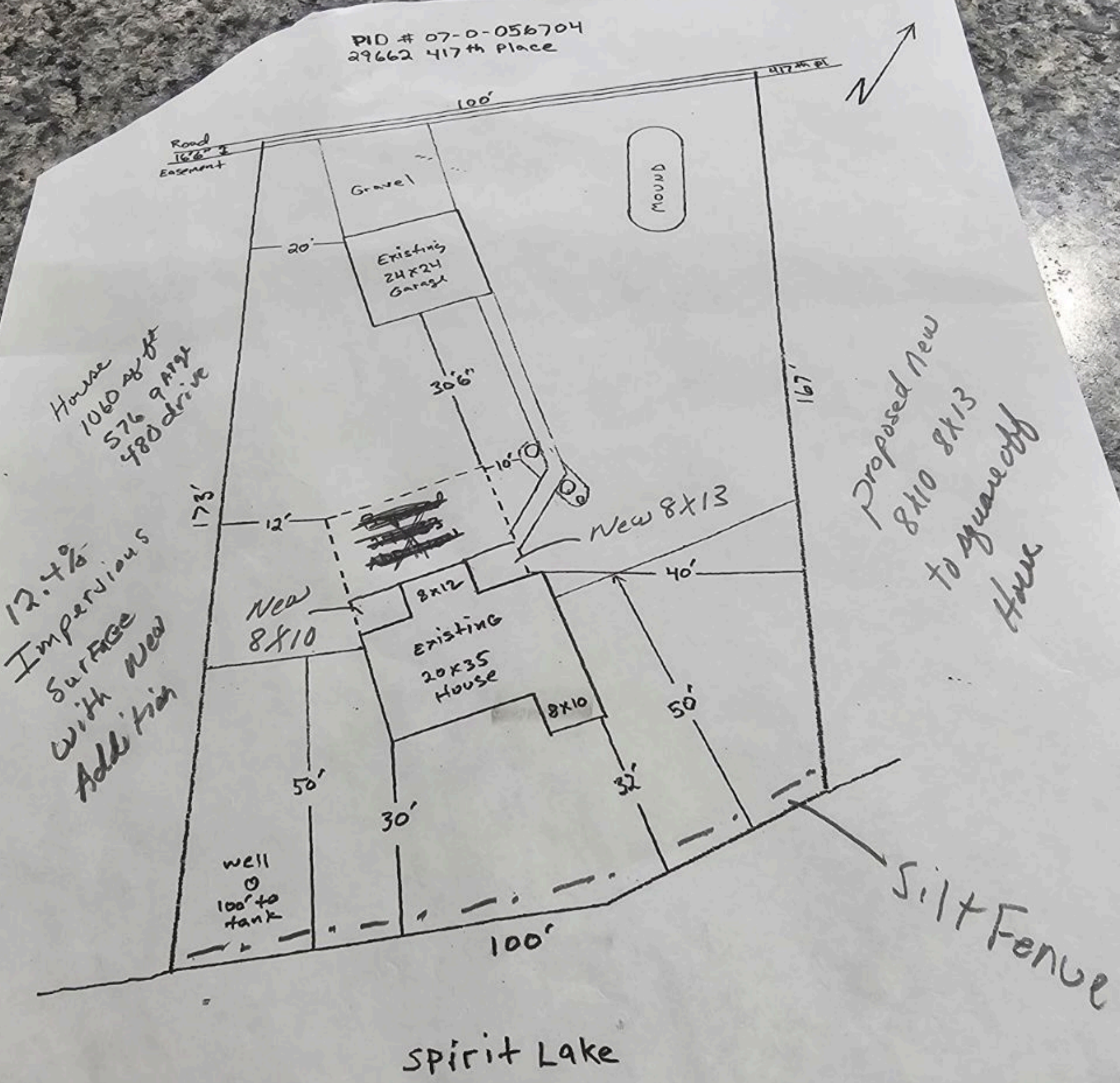
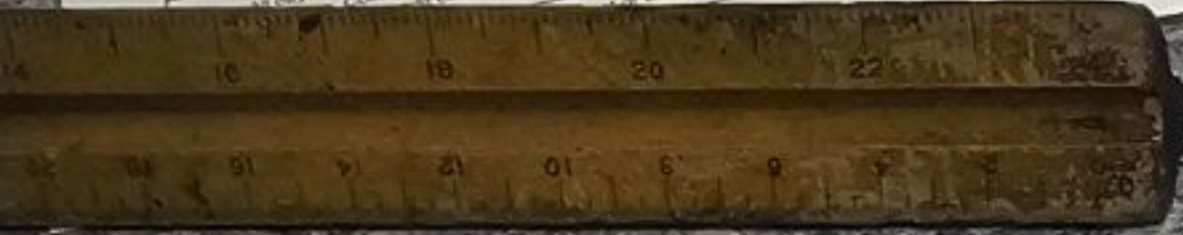
Check the item(s) from which you are requesting a variance and fill in the proposed dimensions.

<input type="checkbox"/> Property Width	Proposed Property Width _____
<input type="checkbox"/> Property Area	Proposed Property Area _____
<input type="checkbox"/> (2) Standard Septic Sites	
<input type="checkbox"/> Legal Access	

Additional Fee	\$0.74 per loaded mile
Delivery over 50 Mi	May be implemented if the vessel
Fuel Surcharge	\$495.00
Saturday Charge	\$90.00 per half-hour after 6:00 p.m.
Overtime	\$300.00 per hour less the time the truck leaves our plant.
Remove A Fleet	\$225.00 standard if tank placed up at our plant.
Tank Discount	\$320.00 + Mileage (if testing is done on job site)
Vacuum Testing	

MEMORANDUM
ORDER PICK-UP - ITEMS RECEIVED
 DATE: 03/05/12 BY: [Signature]
 ITEM PICKED UP: USED SLOTTED
 BULKY ITEMS: [Signature]
 HAZARDOUS FLUIDS: [Signature]
 4172422
 THANK YOU

Rebate Receipt
 [Barcode]
 [Signature]
 [Signature]
 [Signature]



1" = 20' scale



Septic System Compliance Inspection – Existing System

Date: 7/14/2021

Property Owner: Donald and Susanne Morrison

Ordered By: Danny enroute Donald 612 802 2070

Address: 29662 417th Pl., Aitkin, MN 56431

Property ID#: 07-0-056704

Inspector: Tim Woodrow

A compliance inspection was performed at the above location. Soil evaluation was conducted to determine the level of seasonal saturated soil. The Soil Treatment Area (Drain field) was also inspected to ensure there was no ponding or leaking. The septic tank was pumped and inspected. This onsite system was found to be **Compliant**.

- **Impact On Public Health:**
System is Compliant
- **Tank Integrity:**
Tank(s) are compliant
- **Other Compliance Conditions:**
None
- **Soil Separation**
Soils are compliant
- **Operating Permit and Nitrogen BMP**
NA

I have included a copy of the compliance documents for your record. I have also sent a copy to Aitkin County for their records. If you have any questions, please do not hesitate to give us a call.

Thanks!

Tim Woodrow
Owner

218-927-6175

218-927-6175

1037 1st St. NW Aitkin, MN 56431

WWW.GOBLESSEWERSERVICE.COM



DISCLAIMER:

The septic system inspection conducted for this property meets MPCA requirements for existing systems.

We recommend this system to be serviced and evaluated at least every 36 months by a septic professional.

This inspection does not guarantee future performance.

Any additions to the home or increased use of the home may require an increase in system capacity.

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: 07-0-056704 Reason for Inspection Transfer

Local regulatory authority info: Aitkin County

Property address: 29662 417th Pl., Aitkin, MN 56431

Owner/representative: Donald and Susanne Morrison Owner's phone: 612 802 2070

Brief system description: 1000 Septic and 300 Lift to a 10' x 33' Mound

System status

System status on date (mm/dd/yyyy): 7/14/2021

Compliant – Certificate of compliance*

Noncompliant – Notice of noncompliance

(Valid for 3 years from report date unless evidence of an imminent threat to public health or safety requiring removal and abatement under section 145A.04, subdivision 8 is discovered or a shorter time frame exists in Local Ordinance.)

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.

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

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: Timber Lakes Septic Service Certification number: C7644

Inspector signature: Tim Woodrow License number: L455

(This document has been electronically signed) Phone: 218-927-6175

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): _____

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

Compliance criteria:

System discharges sewage to the ground surface	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
System discharges sewage to drain tile or surface waters.	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
System causes sewage backup into dwelling or establishment.	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No

Attached supporting documentation:

- Other: _____
- Not applicable

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

Describe verification methods and results:

2. Tank integrity – Compliance component #2 of 5

Compliance criteria:

System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
Sewage tank(s) leak below their designed operating depth?	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
If yes, which sewage tank(s) leaks:	

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 7/12/2021
(mm/dd/yyyy): (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: _____

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

Describe verification methods and results:

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:

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)

5. Soil separation – Compliance component #5 of 5

Date of installation _____ Unknown
(mm/dd/yyyy)

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.

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	100
B. Periodically saturated soil/bedrock	97.4
C. System separation	2.6
D. Required compliance separation*	2.55'

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

**Any "no" answer above indicates the system is failing to protect groundwater.*

Describe verification methods and results:

Upgrade requirements: (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, 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.

SKETCH SHEET AND SOIL BORING LOG



INSPECTOR: Tim Woodrow
DATE: 7/14/2021
PID#: 07-0-056704
SITE ADDRESS: 29662 417th Pl., Aitkin, MN 56431
Equipment: Bucket Auger
Elevation of Limiting Layer: 97.4'
Vegetation: Mowed Grass
Weather: Sunny & Clear
Benchmark (EL = 100'): Bottom of Rock in STA



SOIL BORING #1 EL: 99.3'		
DEPTH	TEXTURE	COLOR
0 - 15"	Top Soil Sand/Loam	10 YR 4/4
15" - 20"	Sand/Loam	10 YR 4/2
20" - 28"	Clay/Loam	10 YR 5/2
	Redox @ 23" EL:97.4	W/7.5 YR 5/6

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: Donald and Susanne Morrison

Property address: 29682 417th Pl., Aitkin, MN 56431

Local Regulatory Authority: Aitkin County

Parcel ID: 07-0-056704

System status

System status on date (mm/dd/yyyy): 7/12/2021

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: Timber Lakes Septic Service Inc

Business license number: L455

Designated Certified Individual (DCI) information

Print name: Dan Swanson

Certification number: C6023

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: Dan Swanson

(This document has been electronically signed.)

Date (mm/dd/yyyy): 7/12/2021

Homeowner reports native vegetation that he maintains along the shoreline that has previously been approved of by the county and that he should get credit for. The addition will not add any additional shore impact pressure, though is willing to listen to any county recommendations.

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

307 Second Street NW, Room 219
Aitkin, Minnesota 56431

PH: (218) 927-7342
FX: (218) 927-4372



PART VI: VARIANCE APPLICATION

“Aitkin County Shoreland Performance” Worksheet **Instructions:**

Are you applying for a variance from the Aitkin County Shoreland Management Ordinance? If so, you must complete the “Aitkin County Shoreland Performance” sheet. This is used as an attempt to evaluate your property and project as it relates to the required setbacks and the intent of the Ordinance to protect water quality, habitat and aesthetics. Your project will receive a ranking/score that relates to a “percentage” of compliance with the Department of Natural Resources guidelines and Aitkin County Ordinances.

STEP 1: Determine the level of non-conformance and score by completing 1-5 on the worksheet. The actual setback will be multiplied by the corresponding ‘score multiplier’ to determine your “Pre-mitigation Lot Score”.

STEP 2: Review the mitigation options and circle those that you would be willing to implement as a condition of your variance. See letters A-J.

*As a note, if you will be creating a buffer zone or other landscape project as part of your mitigation plan, please be prepared to present an approved plan to the Board of Adjustment. Although not familiar with specifics of the “Aitkin County Shoreland Performance” worksheet, the Aitkin County Soil & Water Conservation District [SWCD] (218-927-7284) and the University of Minnesota Extension Master Gardeners (218-927-2538) may be resources that would be able to provide you with planting suggestions and landscaping ideas.

STEP 3: A final score is determined by adding your “Pre-mitigation Lot Score” with your “Mitigation Total”. *Please note, the property should obtain a score of 100 or more to meet performance standard requirements.*

After a practical difficulty has been determined, the Board of Adjustment may use the “Aitkin County Shoreland Performance” sheet submitted with your application and/or use their own completed sheet to attempt to mitigate impacts to the water-body and/or adjoining properties.

If you have any questions, please contact Aitkin County Environmental Services – Planning & Zoning at (218) 927-7342.

AITKIN COUNTY SHORELAND PERFORMANCE

(Structure Placement Guidance)

A property should obtain a score of 100 or more to meet performance standard requirements. A conforming lot is assigned a score of 100. A lot is deemed conforming when the structure meets the required setbacks to the protected water as specified in the Aitkin County Shoreland Management Ordinance (SMO). A structure that fails to meet this definition is considered non-conforming.

To determine the level of non-conformance and score (See Reference Table):

- 1) Determine the DNR classification of the protected water on the lot (SMO-4.13 & 4.14) 1: 101
- 2) Determine the required "Structure Setback" to that classification of water (SMO 5.2) 2: 100
- 3) Determine the "Actual Setback" of the structure by measuring the closest part of the structure to the protected water, bluff, right-of-way, property line, etc. for which a variance is sought..... 3: 30
- 4) Enter the corresponding 'Score Multiplier' 4: 1.000
- 5) Pre-mitigation 'Lot Score': Determine the percentage of the encroachment as it relates to the standard setback by multiplying the Actual Setback with the 'Score Multiplier' (Note: round to the nearest whole number) 5: 30

Reference Table: Performance Multipliers for structures, septic, bluff, and sidelots in Aitkin County.

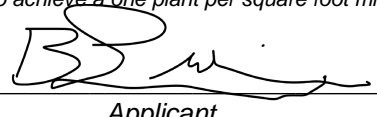
Protected Waters Type (DNR Classification; SMO 4.13-4.14)	Required Structure Setback	Score Multiplier Structures	Required Septic Setback	Score Multiplier Septic	Score Multiplier Bluff (30' setback)	Score Multiplier Sidelot (10' setback)
General Development Lake	75'	1.333	75'	1.333	3.33	10.000
Recreational Development Lake	100'	1.000	75'	1.333		
Natural Environment Lake	150'	0.667	150'	0.667		
Mississippi River	150'	0.667	125'	0.800		
Tributary Stream	100'	1.000	75'	1.333		
Forested Stream	150'	0.667	100'	1.000		
Remote Stream	200'	0.500	150'	0.667		

Mitigation: To bring a non-conforming structure to a score of 100 the landowner conducts and maintains one or more of the below listed mitigating activities:

- A) Zone A(1): Plant and/or maintain a 12.5' wide natural vegetated buffer zone adjacent to the OHW and record deed restrictions to maintain vegetation in its natural state, prohibit mowing or vegetation removal.* Water access as defined in the Shoreland Management Ordinance is allowed (Section 5.31.B.2.c)..... **15 points**
- Zone A(2): Plant and/or maintain a 25' wide natural vegetated buffer zone adjacent to the OHW and record deed restrictions to maintain vegetation in its natural state, prohibit mowing or vegetation removal.* Water access as defined in the Shoreland Management Ordinance is allowed (Section 5.31.B.2.c)..... **30 points**
- B) Zone B: Plant and/or maintain an additional 12.5' wide natural vegetated buffer zone between Zone A landward. Record deed restrictions to maintain vegetation in its natural state, prohibit mowing or vegetation removal.* A ten-foot (10') access path is allowed. **20 points**
- C) Zone C: Plant and/or maintain an additional 12.5' wide natural vegetated buffer zone between Zone B landward. Record deed restrictions to maintain vegetation in its natural state, prohibit mowing or vegetation removal.* A ten-foot (10') access path is allowed. **10 points**
- D) Construction of rain garden(s) to Wisconsin DNR Manual specifications..... **20 points**
- E) Removal of all other structures that do not meet the standard building setbacks, including water oriented structures..... **20 points**
- F) Removal of impervious surfaces to at least half ordinance limits (SMO 5.52.A) **10 points**
- G) Removal of fill all placed in historic wetlands and guarantee of no future wetland fill recorded on deed **10 points**
- H) Re-vegetate bluff or steep slopes* and provide screening of structures from the lake. **10 points**
- I) Diversion of all water runoff from impervious surfaces away from the lake into retention ponds, subsurface drains, wetlands, etc. with no outlet to the lake or tributary **10 points**
- J) Existing conditions may apply on the property that warrant credit...SAM..... To be determined by P&Z

Final Score = Pre-mitigation Lot Score (Line 5) 30 + Mitigation Totals (Lines A-I) 75 = 105

*Note: Plant materials for vegetative buffers shall be native to northern Minnesota. For every 5,000 square feet of buffer area, there shall be a minimum of four types of trees, six types of shrubs, seven forbs, and three grasses planted to achieve a one plant per square foot minimum coverage. Survival of all plants must be guaranteed for a minimum of 5 years

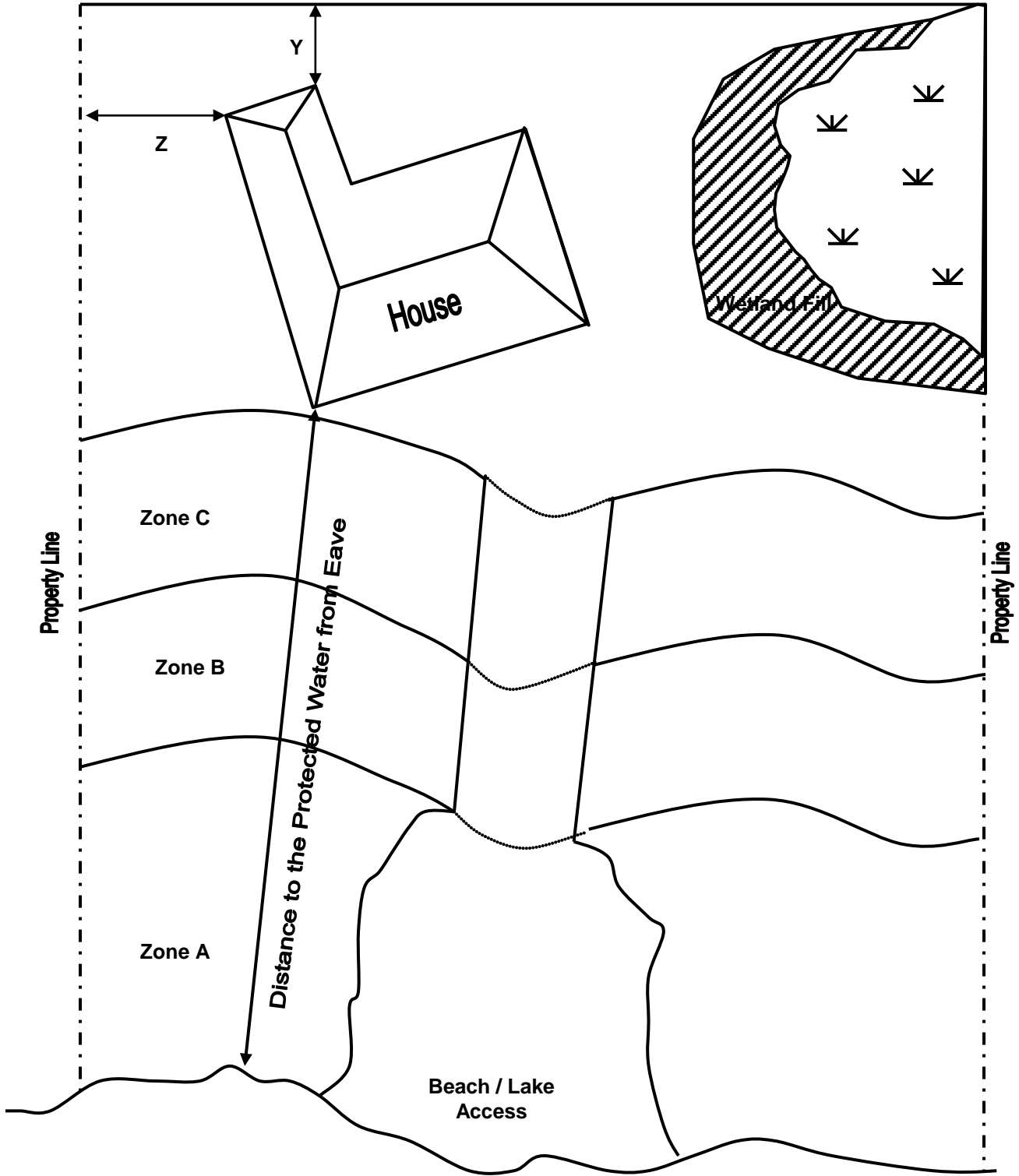


Board of Adjustment Chairperson

Applicant

AITKIN COUNTY SHORELAND PERFORMANCE
(Example)

Road right-of-way (ROW)



Recreational Development Lake (RD)

EROSION CONTROL PLAN CHECKLIST

**Check the box if completed (leave empty if not applicable).
All items checked must be included on the site diagram.**

Site Characteristics

- North arrow, scale, and site boundary. Indicate and name adjacent streets or roadways.
- Location of existing drainageways, streams, rivers, lakes, wetlands or wells.
- Location of storm sewer inlets.
- Location of existing and proposed buildings and paved areas.
- The disturbed area on the lot.
- Approximate gradient and direction of slopes before grading operations.
- Approximate gradient and direction of slopes after grading operations.
- Overland runoff (sheet flow) coming onto the site from adjacent areas.

Erosion Control Practices

- Location of temporary soil storage piles.
Note: Soil storage piles should be placed behind a sediment fence, a 10 foot wide vegetative strip, or should be covered with a tarp or more than 25 feet from any downslope road or drainageway.
- Location of access drive(s) (driveways, turnarounds, approaches, etc.)
- Location of sediment controls (filter fabric fence, straw bale fence or 10-foot wide vegetative strip) that will prevent eroded soil from leaving the site.
- Location of sediment barriers around on-site storm sewer inlets.
- Location of diversions.
Note: Although not specifically required by code, it is recommended that concentrated flow (drainageways) be diverted (re-directed) around disturbed areas. Overland runoff (sheet flow) from adjacent areas greater than 10,000 sq. ft. should also be diverted around disturbed areas.
- Location of practices that will be applied to control erosion on steep slopes (greater than 12% grade).
Note: Such practices include maintaining existing vegetation, placement of additional sediment fences, diversions, and re-vegetation by sodding or seeding with use of erosion control mats.
- Location of practices that will control erosion on areas of concentrated runoff flow.
Note: Unstabilized drainageways, ditches, diversions, and inlets should be protected from erosion through use of such practices as in-channel fabric or straw bale barriers, erosion control mats, staked sod, and rock rip-rap. When used, a given in-channel barrier should not receive drainage from more than two acres of unpaved area, or one acre of paved area. In-channel practices should not be installed in perennial streams (streams with year round flow).
- Location of other planned practices not already noted.

**Check the box if completed (leave empty if not applicable).
All items checked must be included on the site diagram.**

Management Strategies

- Temporary stabilization of disturbed areas.
Note: It is recommended that disturbed areas and soil piles left inactive for extended periods of time be stabilized by seeding (between April 1 and September 15), or by other cover, such as tarping or mulching.
- Permanent stabilization of site by re-vegetation or other means as soon as possible (lawn establishment).
 - Indicate re-vegetation method: (Circle one of the following) Seed Sod
Other _____
 - Expected date of permanent re-vegetation: _____
 - Re-vegetation responsibility of: (Circle one of the following)
Builder Owner/Buyer
 - Is temporary seeding or mulching planned if site is not seeded by
Sept. 15 or sodded by Nov. 15? (Circle one of the following) Yes No
- Use of downspout and/or sump pump outlet extensions.
Note: It is recommended that flow from downspouts and sump pump outlets be routed through plastic drainage pipe to stable areas such as established sod or pavement.
- Trapping sediment during de-watering operations.
Note: Sediment-laden discharge water from pumping operations should be ponded behind a sediment barrier until most of the sediment settles out.
- Proper disposal of building material waste so that pollutants and debris are not carried off-site by wind or water.
- Maintenance of erosion control practices.
 - Sediment will be removed from behind sediment fences and barriers before it reaches a depth that is equal to half the height of the barrier.
 - Breaks and gaps in sediment fences and barriers will be repaired immediately. Decomposing straw bales will be replaced (typical bale life is three months).
 - All sediment that moves off-site due to construction activity will be cleaned up before the end of the same workday.
 - All sediment that moves off-site due to storm events will be cleaned up before the end of the next workday.
 - Access drives will be maintained throughout construction.
 - All installed erosion control practices will be maintained until the disturbed areas they protect are stabilized.

PART VII: STANDARD EROSION CONTROL PLAN

According to Aitkin County's Shoreland Management Ordinance, soil erosion control information needs to be included on the site plan which is submitted and approved prior to the issuance of zoning permits. The Standard Erosion Control Plan is provided to assist in meeting this requirement.

Instructions:

1. Complete this plan by filling in requested information, completing the site diagram and marking appropriate boxes on the inside of this form.
2. In completing the site diagram, give consideration to potential erosion that may occur before, during and after grading. Water runoff patterns can change significantly as a site is reshaped.
3. A cross section sheet is required for walkout basements and excavations into hillsides for determining volume of fill to be excavated.

Project Location 29662417th PI, AITKIN, MN56431

Builder R and R Landscaping Owner Donald and Susan Morrison Trust

Worksheet Completed By Blake D. Lubinus Date 03/08/2024

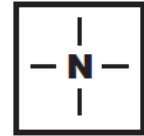
Amount of earthen material to be excavated and/or used for fill _____ cubic yards.

SITE DIAGRAM

Scale 1 inch = 20 feet

Please indicate north by completing the arrow.

see attached diagram. Proposed erosion control plan is a silt fence, if necessary.



EROSION CONTROL PLAN LEGEND

- PROPERTY LINE
- > EXISTING DRAINAGE
- > TD TEMPORARY DIVERSION
- > FINISHED DRAINAGE
- - - LIMITS OF GRADING
- SILT FENCE
- STRAW BALES
- GRAVEL
- VEGETATION SPECIFICATION
- TREE PRESERVATION
- STOCKPILED SOIL

NO DELINQUENT TAXES
AND TRANSFER ENTERED

This 14 Day Nov 2016

Kirk Payson
County Auditor

Elizabeth Harmon
Deputy



A436608

Office of the County Recorder
Aitkin County, Minnesota

I HEREBY CERTIFY THE WITHIN INSTRUMENT WAS
FILED, AND/OR RECORDED ON 11/14/2016 9:00 AM

PACKAGE: 52724

REC FEE: \$46.00

2/2

Michael T. Moriarty, Aitkin County Recorder

CERTIFICATE OF REAL ESTATE
VALUE () FILED () NOT
REQUIRED CERTIFICATE OF REAL
ESTATE VALUE NO _____

(Top 3 inches reserved for recording data)

WARRANTY DEED
Individual(s) to Individual(s)

Minnesota Uniform Conveyancing Blanks
Form 10.1.1 (2013)

eCRV number: _____

DEED TAX DUE: \$ 1.65

DATE: May 18, 2016
(month/day/year)

FOR VALUABLE CONSIDERATION, Donald G. Morrison and Susanne C. Morrison, husband and wife
(insert name and marital status of each Grantor)

_____ ("Grantor"),
hereby conveys and warrants to Donald G. Morrison and Susanne C. Morrison, as Trustees of the Donald G. Morrison and Susanne
(insert name of each Grantee)

C. Morrison Trust under Agreement dated May 18, 2016 ("Grantee"), real property
in Aitkin County, Minnesota, legally described as follows:

See attached "Schedule A"

Consideration is less than \$500.00

AITKIN COUNTY DEED TAX
No. 10009 Date 11-14-16
1.65 Dollars
Joni Evans
County Treasurer
By Jessie Hughes Deputy

Check here if all or part of the described real property is Registered (Torrens)

together with all hereditaments and appurtenances belonging thereto, subject to the following exceptions:

None.

Check applicable box:

- The Seller certifies that the Seller does not know of any wells on the described real property.
- A well disclosure certificate accompanies this document or has been electronically filed. (If electronically filed, insert WDC number: _____.)
- I am familiar with the property described in this instrument and I certify that the status and number of wells on the described real property have not changed since the last previously filed well disclosure certificate.

Grantor
Donald G Morrison
(signature) Donald G. Morrison
Susanne C Morrison
(signature) Susanne C. Morrison

State of Minnesota, County of Sherburne

This instrument was acknowledged before me on May 18, 2016, by Donald G. Morrison and Susanne C.
(month/day/year)

Morrison, husband and wife
(insert name and marital status of each Grantor)

(Stamp)



Marycathleen Fenske
(signature of notarial officer)

Title (and Rank): Notary Public - MN

My commission expires: Jan 31, 2020
(month/day/year)

THIS INSTRUMENT WAS DRAFTED BY:
(insert name and address)

White & Associates
19230 Evans Street, Suite 116
Elk River, MN 55330

TAX STATEMENTS FOR THE REAL PROPERTY DESCRIBED IN THIS INSTRUMENT SHOULD BE SENT TO:
(insert legal name and residential or business address of Grantee)

Donald G. Morrison and Susanne C. Morrison, Trustees
19029 Yale Circle
Elk River, MN 55330

SCHEDULE A

That part of Government Lot Two (2), Section Twenty-six (26), Township Forty-six (46), Range Twenty-seven (27), commencing at the iron pipe set on the lake shore at the southeast corner of said Lot Two (2); Thence North, assumed bearing, along the East line of said Lot Two (2), a distance of one hundred fifty (150.0) feet; Thence South Sixty-four degrees zero minutes zero seconds ($64^{\circ}00'00''$) West Three hundred seventy-five (375.00) feet to the point of beginning of the tract to herein be described; Thence South Sixty-four degrees zero minutes zero seconds ($64^{\circ}00'00''$) West Seventy-five (75.0) feet; Thence South Thirty degrees forty-six minutes zero seconds ($30^{\circ}46'00''$) West Eighty (80.00) feet; Thence South Thirty-three degrees thirty-seven minutes zero seconds ($33^{\circ}37'00''$) East, one hundred eighty-two (182.00) feet, more or less, to the shore of Spirit Lake; Thence Northeasterly along the shore of said Lake to a point which bears South Six degrees Forty-nine minutes thirty-one seconds ($6^{\circ}49'31''$) East from the point of beginning; Thence North Six degrees Forty-nine minutes thirty-one seconds ($6^{\circ}49'31''$) West, One hundred ninety (190.00) feet, more or less, to the point of beginning, lying Southwesterly of the following described line, hereinafter called "Line A": Commencing at the iron pipe set on the lake shore at the southeast corner of said Government Lot Two (2); thence North 00 degrees 03 minutes 52 seconds West on an assigned bearing, along the East line of said Government Lot 2 a distance of 150.00 feet; thence South 63 degrees 56 minutes 08 seconds West a distance of 375.00 feet; thence continuing South 63 degrees 56 minutes 08 seconds West, a distance of 75.00 feet; thence South 30 degrees 42 minutes 07 seconds West, a distance of 70.6 feet, the actual point of beginning of said Line A; thence South 30 degrees 53 minutes 41 seconds East to an iron monument on the shore of Spirit Lake and there terminating.

AND

Starting at a point on the East line of Government Lot Two (2) Section Twenty-six (26), Township Forty-six (46) North, Range Twenty-seven (27) West, 4th Principal Meridian, Aitkin County, Minnesota, said point being 150.0 ft. North of an iron pipe meander corner on the Northerly shore of Spirit Lake and assuming said East line of Government Lot Two (2) as the true North and South line. Thence S $64^{\circ}00'$ West, a distance of 450.0 ft., thence South $30^{\circ}46'$ West, a distance of 80.0 ft., to the point of beginning. Thence continuing S $30^{\circ}46'$ West, a distance of 100.0 ft, thence South $32^{\circ}31'$ East, a distance of 174.8 ft., more or less, to Spirit Lake shore, thence Northeasterly along said lake shore a distance of 100.0 feet, more or less, to a point having a direction of S $33^{\circ}37'$ East, from the point of beginning, thence in a direction North $33^{\circ}37'$ West, a distance of 182.0 feet, more or less, to the point of beginning, the same containing 0.35 acres in Government Lot Two (2) and 0.02 acre in Government Lot Four (4), Section Twenty-six (26), all located in the County of Aitkin, State of Minnesota.