180283000-2023

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

Certificate of Compliance
Inspection Report - Permit #: SS2023-1888

Owner & Property Information

Owner Name:	KEITH FISCHER
Mailing Address:	KEITH FISCHER 17421 BIJOU CIR LAKE PARK MN 56554
Parcel #:	180283000
Secondary Parcel #:	

Site Address:	17421 BIJOU CIR
Township - Sec/Twp/Rng:	LAKE PARK - 29/139/043
Legal Description:	Lot Block 001 of BIJOU HEIGHTS 139 43|LOTS 49, 50.
Designer:	Cubed B LLC, L4142 (Brant Bigger)
Installer:	Stenger Excavating LLC, L553 (Timothy Stenger)

Inspector Verified Specifications

Insp- Effluent Screen Installed:	No
Insp- Alarm Required:	Yes
Insp- Lift Pump in System:	No
Insp- Number of Bedrooms:	2

Insp- Tank Nbr/Size:	2/2250
Insp- Drainfield Type:	No Drainfield
Insp- Drainfield Size:	NA
Insp- Soil Verification:	#1:N/A #2:N/A #3:N/A

Inspector Verified Setbacks

Insp- Tank Dist to Road	ROW AGREEMENT
Insp- Tank Dist to Nearest Prop Line	5' PLA
Insp- Tank Dist to Nearest Structure	10+
Insp- Tank Dist to Well	50'
Insp- Tank Dist to OHW	100+
Insp- Tank Dist to Pond/Wetland	NA
Insp- Tank Dist to Pressure Line	NA

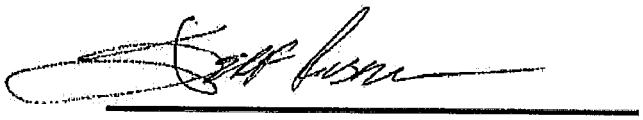
Insp- Drainfield Dist to Road	NA
Insp- Drainfield Dist to Nearest Prop Line	NA
Insp- Drainfield Dist to Nearest Structure	NA
Insp- Drainfield Dist to Well	NA
Insp- Drainfield Dist to OHW	NA
Insp- Drainfield Dist to Pond/Wetland	NA
Insp- Drainfield Dist to Pressure Line	NA

Certificate of Compliance

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

Certification Date: 10/23/2023

Zoning Office Signature:



Jeff Rusness - ISTS Inspector

*** Certificate of Compliance is not valid unless signed by a Registered Qualified Employee ***

Field Review Form

Permit # SS2023-1888

Property and Owner

Owner: **KEITH FISCHER**	Parcel Number: **180283000**
Site Address: **17421 BIJOU CIR**	Secondary Parcel:

Home Information

Does the structure contain any of the following elements?	Designer submitted	Inspector verified
	Garbage disposal: No Dishwasher: Grinder pump: Lift pump in bsmt:	Garbage disposal? Y (N) Dishwasher? (Y) N Grinder pump? Y (N) Lift pump in basement? Y (N)
Number of bedrooms: **2**	Review - Number of bedrooms: 2	
Effluent screen	Effluent screen installed? Y (N) Mfr:	
Alarm: **Yes** Type: **manual**	Review - Alarm? (Y) N Type & Mfr: Manual Flow	
Lift pump in system: **No**	Review - Lift pump in system? Y N Mfr: NA	

Component Information

Tank size: **two 2,250 gallon holding tanks**	Review - Tank nbr: 2 size: 2250 Mfr: Brown/Wilbert
Drainfield type:	Review - Drainfield type: NA
Drainfield size: Full size - Reduced/warr. size -	Review - Drainfield status: none / installed / next spring Review - Drainfield size: NA
Absorption area size:	Review - Absorption area size:
Chamber type/num: Trench sqft/chamber -	Review - Chamber type: Review - Trench sqft/chamber: Num:
Drainfield rock depth:	Review - Rock depth:

Soil Verification

Vertical separation verified	Boring #1: NA Boring #2: Boring #3:

Setback Verification

	Designer submitted		Inspector verified	
Distance to...	Tank	Drainfield	Tank	Drainfield
Road	up to the ROW	N/A	ROW Agree	NA
Nearest prop line	5'	N/A	5+ PLA	
Nearest structure	>20'	N/A	10+	
Well	>50'	N/A	50+	
OHW	>100'	N/A	100+	
Pond/Wetland	N/A	N/A	NA	
Pressure line	>50'	N/A	NA	

Date System Installed: 10-11-2023 Installer: [signature] Inspector: [signature]

BRANT B. BIGGER
Owner

13248 US Hwy 10
Lake Park, MN 56554

218-234-6906

brant.bigger@gmail.com

cubedbllc.com

Cubed B LLC
SEPTIC SYSTEM DESIGN
& INSPECTION

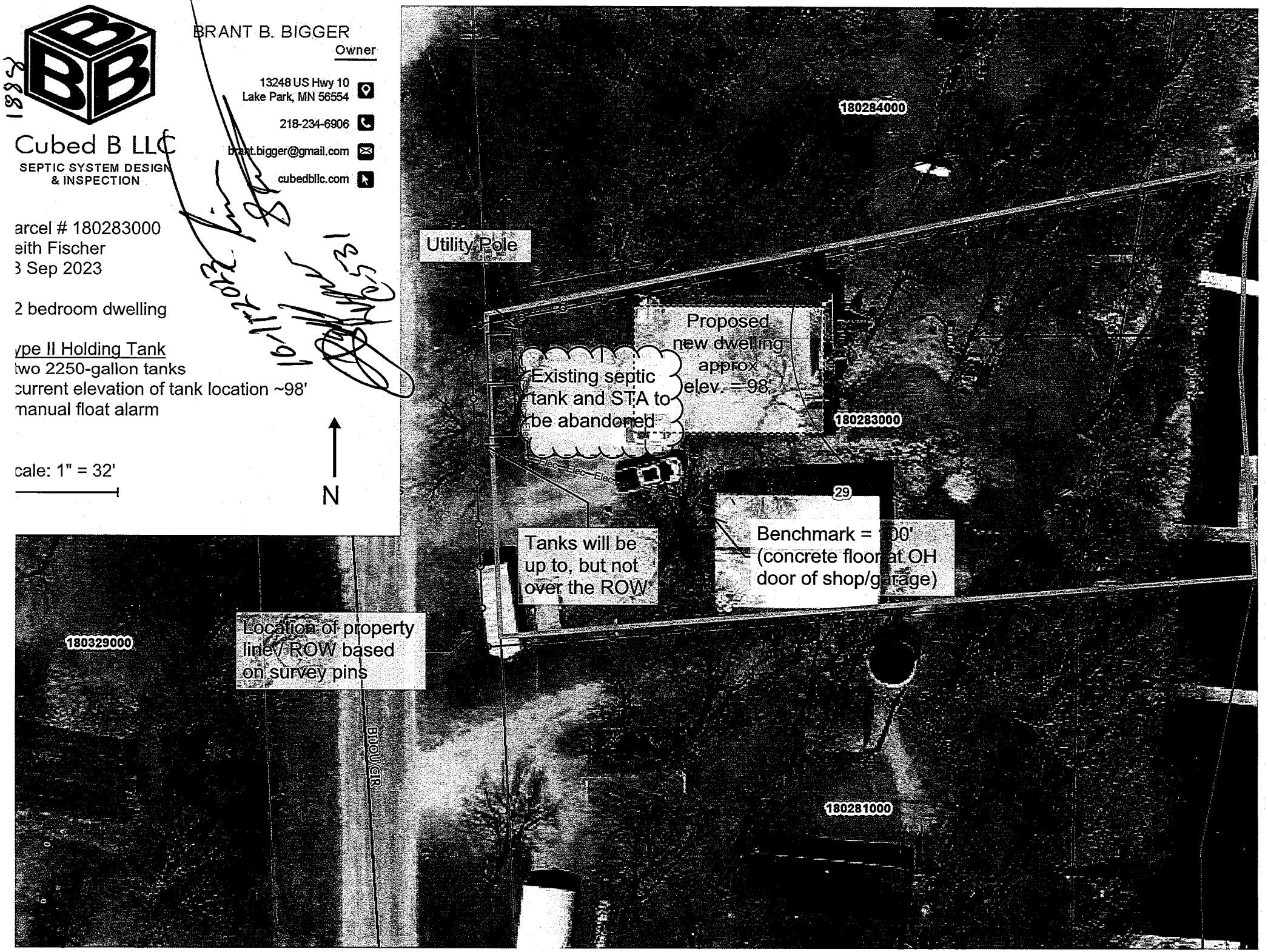
arcel # 180283000
eith Fischer
3 Sep 2023

2 bedroom dwelling

ype II Holding Tank
two 2250-gallon tanks
current elevation of tank location ~98'
manual float alarm

cale: 1" = 32'

N



University of Minnesota Onsite Sewage Treatment Program

Preliminary Evaluation Worksheet

MINNESOTA POLLUTION CONTROL AGENCY

1. Contact Information

v 03.15.2023

Property Owner/Client:	Keith Fischer	Date Completed:	9/6/2023
Site Address:	17421 BIJOU CIR, LAKE PARK MN 56554	Project ID:	
Email:	kthfischer@yahoo.com	Phone:	701-238-6429
Mailing Address:	17421 BIJOU CIR, LAKE PARK MN 56554	Alt Phone:	
Legal Description:	BIJOU HEIGHTS Block 1 LOTS 49 & 50		

Parcel ID: 180283000 SEC: 29 TWP: 139 RNG: 043

2. Flow and General System Information

A. Client-Provided Information

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

Project Use: ☑ Residential ☐ Other Establishment:

Residential use: # Bedrooms: 2 Dwelling sq.ft.: Unfinished sq.ft.:

Adults: 2 # Children: # Teenagers:

In-home business (Y/N): No If yes, describe:

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

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

* Clear water source - should not go into system

Additional current or future uses:

Anticipated non-domestic waste:

The above is complete & accurate: spoke with property owner on 06 Sep 2023

Client signature & date

B. Designer-determined Flow and Anticipated Waste Strength Information

Attach additional information as necessary.

Design Flow: 300 GPD Anticipated Waste Type: Residential

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

3. Preliminary Site Information

A. Water Supply Wells

#	Description	Mn. ID#	Well Depth (ft.)	Casing Depth (ft.)	Confining Layer	STA Setback	Source
1	deep well					50'	owner
2							
3							
4							

Additional Well Information:

University of Minnesota Onsite Sewage Treatment Program

Preliminary Evaluation Worksheet

MINNESOTA POLLUTION CONTROL AGENCY

Site within 200' of noncommunity transient well (Y/N)	No	Yes, source:	
Site within a drinking water supply management area (Y/N)	No	Yes, source:	
Site in Well Head Protection inner wellhead management zone (Y/N)	No	Yes, source:	
Buried water supply pipes within 50 ft of proposed system (Y/N)	No		
B. Site located in a shoreland district/area?	Yes	Yes, name:	BIJOU
Elevation of ordinary high water level:	ft	Source:	
Classification: Lake- Recreational	Tank Setback: 75 ft.	STA Setback: 75 ft.	
C. Site located in a floodplain?	No	Yes, Type(s):	N/A
Floodplain designation/elevation (10 Year):	N/A ft	Source:	N/A
Floodplain designation/elevation (100 Year):	N/A ft	Source:	N/A

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

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

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

Map Units:	422B—Bygland silty clay loam	Slope Range:	1-6 %
List landforms:	Hillslopes on moraines		
Landform position(s):	Summit, shoulder, backslope		
Parent materials:	Silty and clayey glaciolacustrine sediments		
Depth to Bedrock/Restrictive Feature:	>80 in	Depth to Watertable:	30-47 in

Map Unit Ratings

Septic Tank Absorption Field- At-grade:	Extremely Limited
Septic Tank Absorption Field- Mound:	Extremely Limited
Septic Tank Absorption Field- Trench:	Extremely Limited

5. Local Government Unit Information

Name of LGU:	Becker County
LGU Contact:	Kyle Vareberg
LGU-specific setbacks:	
LGU-specific design requirements:	
LGU-specific installation requirements:	
Notes:	

University of Minnesota Onsite Sewage Treatment Program

Design Summary Page

MINNESOTA POLLUTION CONTROL AGENCY

1. PROJECT INFORMATION

v 03.15.2023

Property Owner/Client: Keith Fischer | Project ID:

Site Address: 17421 BIJOU CIR, LAKE PARK MN 56554 | Date: 09/09/23

Email Address: kthfischer@yahoo.com | Phone: 701-238-6429

2. DESIGN FLOW & WASTE STRENGTH

Attach waste strength data/estimated strength for Other Establishments

Design Flow: 300 GPD | Anticipated Waste Type: Residential

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

Treatment Level: *Select Treatment Level C for residential septic tank effluent*

3. HOLDING TANK SIZING

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

Code Minimum **Holding Tank** Capacity: 1000 Gallons with 1 Tanks or Compartments

Recommended **Holding Tank** Capacity: 4500 Gallons with 2 Tanks or Compartments

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

Comments:

4. SEPTIC TANK SIZING

A. Residential dwellings:

Number of Bedrooms (Residential): 2

Code Minimum **Septic Tank** Capacity: Gallons with Tanks or Compartments

Recommended **Septic Tank** Capacity: Gallons with Tanks or Compartments

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

B. Other Establishments:

Waste received by: GPD x Days Hyd. Retention Time

Code Minimum **Septic Tank** Capacity: Gallons with Tanks or Compartments

Recommended **Septic Tank** Capacity: Gallons with Tanks or Compartments

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

* Other Establishments Require Department of Labor and Industry Approval and Inspection for Building Sewer *

5. PUMP TANK SIZING

Soil Treatment Dosing Tank

Pump Tank Capacity (Minimum): Gal

Pump Tank Capacity (Recommended): Gal

Pump Req: GPM Total Head ft

Supply Pipe Dia. in Dose Vol: gal

Other Component Dosing Tank:

Pump Tank Capacity (Minimum): Gal

Pump Tank Capacity (Recommended): Gal

Pump Req: GPM Total Head ft

Supply Pipe Dia. in Dose Vol: Gal

* Flow measurement device must be incorporated for any system with a pump: Elapsed Time Meter and/or Event Counter *

University of Minnesota Onsite Sewage Treatment Program

Design Summary Page

MINNESOTA POLLUTION CONTROL AGENCY

6. SYSTEM AND DISTRIBUTION TYPE

Project ID:

Soil Treatment Type:		Distribution Type:	
Elevation Benchmark:	100.0 ft	Benchmark Location:	concrete floor at overhead door c
MPCA System Type:		Distribution Media:	
Type III/IV/V Details:			

7. SITE EVALUATION SUMMARY:

Describe Limiting Condition:

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

Note:

	Depth		Depth		Elevation of Limiting Condition	
Limiting Condition:		inches		ft		ft
Minimum Req'd Separation:		inches		ft	Elevation	
Code Max System Depth*:		inches		ft		ft

Critical for system compliance

Distribution Elevation >Code Max Depth

*This is the maximum depth to the bottom of the distribution media for required separation. Negative Depth (ft) requires a mound.

Designed Distribution Elevation: ft Minimum Sand Depth: inches

A. Soil Texture:

B. Organic Loading Rate (optional): lbs/sq.ft/day 0

C. Soil Hyd. Loading Rate: GPD/ft^2 D: Percolation Rate: MPI

E. Contour Loading Rate: Note:

F. Measured Land Slope: 5.0 % Note:

Comments:

8. SOIL TREATMENT AREA DESIGN SUMMARY

Trench:

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

Bed:

Dispersal Area	sq.ft	Sidewall Depth	in	Maximum Bed Depth	in
Bed Width	ft	Bed Length	ft	Designed Bed Depth	in

Mound:

Dispersal Area	sq.ft	Bed Length	ft	Bed Width	ft
Absorption Width	ft	Clean Sand Lift	ft	Berm Width (0-1%)	ft
Upslope Berm Width	ft	Downslope Berm	ft	Endslope Berm Width	ft
Total System Length	ft	System Width	ft	Contour Loading Rate	gal/ft

University of Minnesota Onsite Sewage Treatment Program

Design Summary Page

MINNESOTA POLLUTION CONTROL AGENCY

Project ID:

At-Grade:

Dispersal Area		sq.ft	Bed Length		ft	Bed Width		ft
Upslope Berm		ft	Downslope Berm		ft	Finished Height		ft
System Length		ft	Endslope Berm		ft	System Width		ft

Level & Equal Pressure Distribution Soil Treatment Area

No. of Laterals			Lateral Diameter		in	Lateral Spacing		ft
Perforation Spacing		ft	Perforation Diameter		in	Drainback Volume		gal
Min Dose Volume		gal	Max Dose Volume		gal	Total Dosing Volume		gal

Non-Level and Unequal Pressure Distribution Soil Treatment Area

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

Minimum Dose Volume: _____ gal

Maximum Dose Volume: _____ gal

Total Dosing Volume: _____ gal

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

Organic Loading to Soil Treatment

A. Starting BOD Concentration = Design Flow X 0.7 X Starting BOD (mg/L) X 8.35 ÷ 1,000,000

_____ gpd X _____ mg/L X 8.35 ÷ 1,000,000 = _____ lbs. BOD/day (Organic Loading Design)

B. Organic Loading to Soil Treatment Area: (enter loading value in 7B)

_____ mg/L X _____ gpd X 0.7 X 8.35 ÷ 1,000,000 ÷ _____ sq.ft = _____ lbs./day/sqft

HSW Technology Strength Reduction

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

0 gpd X 1000 mg/L X 8.35 ÷ 1,000,00 = 0.00000 lbs. BOD/day (HSW Technology Design)

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

_____ gpd X _____ mg/L X 8.35 ÷ 1,000,00 = _____ lbs. BOD/day (HSW Technology Design)

Lbs. BOD To Be Removed: _____ lbs. BOD/day (HSW Technology Design)

Pretreatment Technology: _____ *Must Meet or Exceed Target

Disinfection Technology: _____ *Required for Levels A & B

10. Comments/Special Design Considerations:

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

Brant Bigger	Bigger	L4142	9-Sep-23
(Designer)	(Signature)	(License #)	(Date)

Township
Right-of-Way Encroachment

The Lake Park **Township hereby grants permission to:**

NAME: KEITH FISCHER

ADDRESS: 17421 BIJOU CIR, LAKE PARK MN 56554

PROPERTY ID #: 180283000

LOCATION DESCRIPTION: BIJOU HEIGHTS Block 1 LOTS 49 & 50

X Place holding tanks up to the Township road right-of-way

OR

_____ To extrend the drainfield for the septic no more than _____ feet into the Township right-of-way.

The Lake Park Township will not be liable for any damages to said septic system due to road construction.

PERMIT NUMBER: SS2023-169531

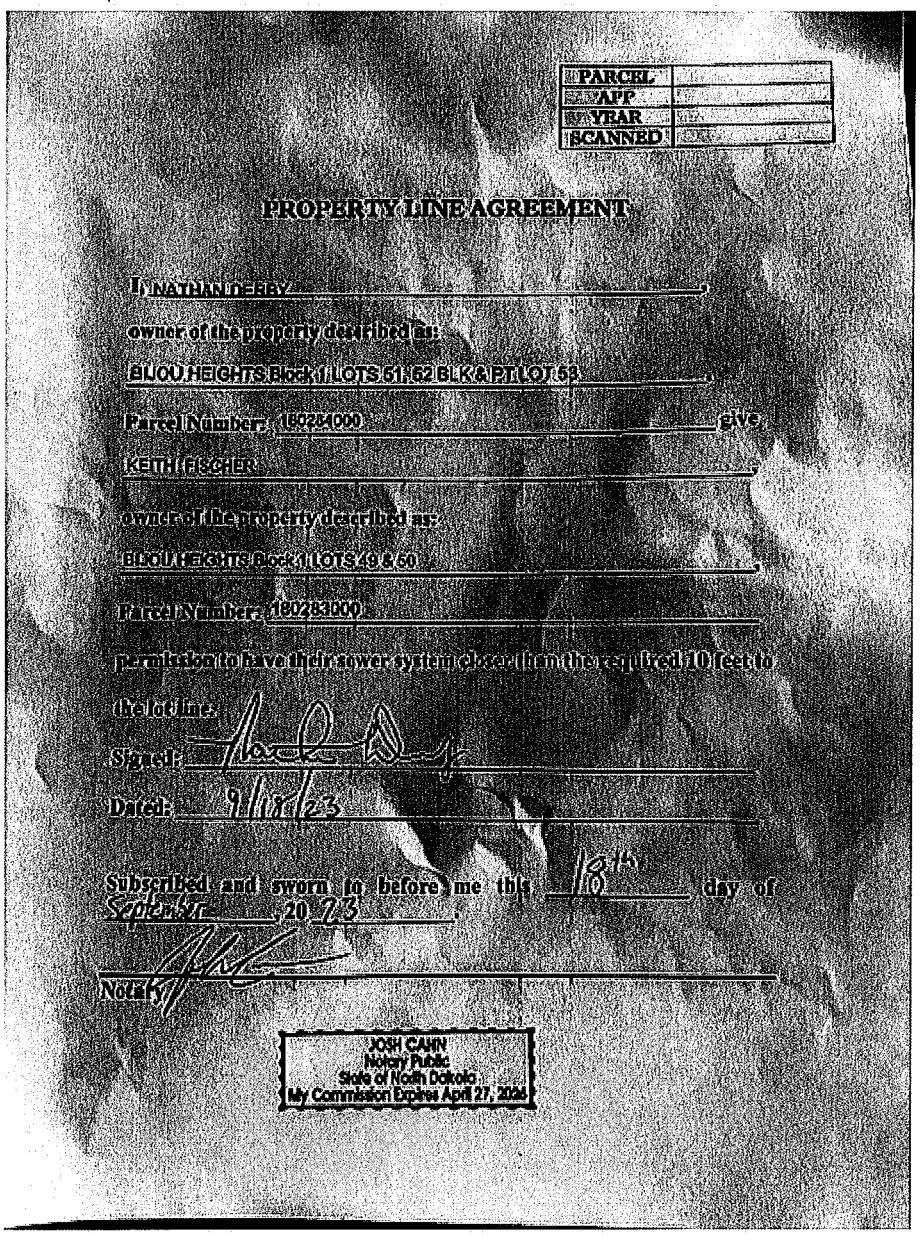
SIGNATURES:

Landowner: Keith Fischer Date: 9/10/23

Township: Bradley A Lindstrom Date: 9/11/23

Township: Tyler B Date: 9/11/23

Township: John Madson Date: 9-11-23



PARCEL	
APP	
YEAR	
SCANNED	

PROPERTY LINE AGREEMENT

I, NATHAN DEBBY,

owner of the property described as:

BLOU HEIGHTS Block 1 LOTS 51 52 BLK & PT LOT 53,

Parcel Number: 180284000 give,

KEITH FISCHER,

owner of the property described as:

BLOU HEIGHTS Block 1 LOTS 49 & 50,

Parcel Number: 180283000,

permission to have their sewer system closer than the required 10 feet to the lot line.

Signed: [signature]

Dated: 9/18/23

Subscribed and sworn to before me this 18th day of September, 2023.

[signature]

Notary

JOSH CAHN
Notary Public
State of North Dakota
My Commission Expires April 27, 2026

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Septic System Management Plan for Holding Tank Systems

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

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

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

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

Property Owner: Keith Fischer

Property Address: 17421 BIJOU CIR, LAKE PARK MN 56554 Property ID: 180283000

System Designer: Cubed B LLC License #: L4142

System Installer: Stenger Excavating LLC License #: L553

Service Provider/Maintainer: Phone:

Permitting Authority: Becker County Phone: 218-846-7314

Permit #: SS2023-173704 Date Inspected:

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

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

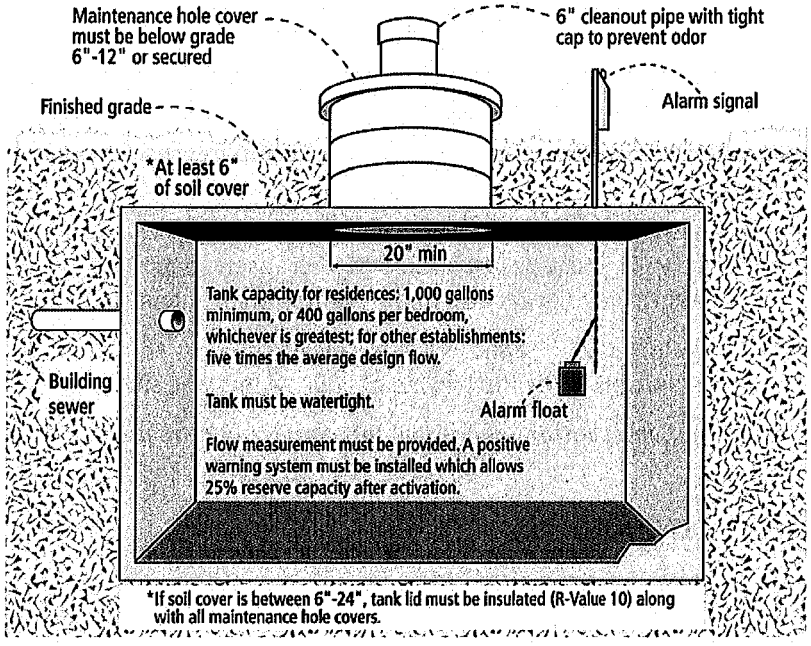
For a copy of the *Septic System Owner's Guide*, call 1-800-876-8636 or go to http://shop.extension.umn.edu/

http://septic.umn.edu

UNIVERSITY OF MINNESOTA

Septic System Management Plan
For Holding Tank Systems

Your Holding Tank



Dwelling Type	Well Construction
Number of bedrooms: 2	Well depth (ft): deep
System capacity/ design flow (gpd): 300	☐ Cased well Casing depth: _____
Anticipated average daily flow (gpd): _____	☐ Other (specify): _____
Comments_____	Distance from septic (ft): >50
In-home business? ___ What type? _____	Is the well on the design drawing? ◉ Y ○ N
Number of occupants 2	

Holding Tank	
○ One tank: *Tank volume:* 2250 *gallons*	☐ Flow measurement device: no
◉ Two tanks: *Tank volume:* 2250 *gallons*	☐ Location: west of house near road
☐ Tank is constructed of concrete	☐ Alarm ✔ visual _____ audible
	☐ Reserve %: 25
☐ Service contract held by: _____	
☐ Service contract is attached to this management plan	

UNIVERSITY OF MINNESOTA

Septic System Management Plan
For Holding Tank Systems

Homeowner Management Tasks

These op*eration and maintenance ac*tivities are your responsibility. *Use the chart on page 6 to track your activities.*

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

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

OR

Within 24 hours of alarm signal

System Designer: check every 45 days

Local Government: check every _____ days

My tank needs to be emptied every 365 days

Seasonally

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

Annually

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

During each visit by a pumper/maintainer

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

Professional Management Tasks

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

- ☐ Written record provided to homeowner after each visit.

Plumbing/Source of Wastewater

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

Holding Tanks

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

All other components – inspect as listed here:

_____

_____

_____

Water-Use Appliances and Equipment in the Home

Appliance	Impacts on Holding Tank	Management Tips
Garbage disposal	• Uses water and increases pumping frequency and expense.	• Use of a garbage disposal is not recommended. • Minimize garbage disposal use. Compost instead.
Washing machine	• Uses water and increases pumping frequency and expense.	• Choose a front-loader or water-saving top-loader, these units use less water than older models. • Wash only full loads. • Do laundry off site.
Dishwasher	• Uses water and increases pumping frequency and expense.	• Wash only full loads.
Large bathtub (whirlpool)	• Uses water and increases pumping frequency and expense.	• Take short showers to conserve water.
Clear Water Uses	**Impacts on Holding Tank**	**Management Tips**
High-efficiency furnace	• Drip may result in frozen pipes during cold weather.	• Re-route water into a sump pump or directly out of the house. Do not route furnace recharge to your holding tank.
Water softener Iron filter Reverse osmosis	• Uses water and increases pumping frequency and expense.	• These sources produce water that is not sewage and should not go into your holding tank. • Reroute water from these sources to another outlet, such as a dry well, drain tile or old drainfield. • When replacing, consider using a demand-based recharge vs. a time-based recharge. • Check valves to ensure proper operation; have unit serviced per manufacturer directions
Surface drainage Footing drains	• Uses water and increases pumping frequency and expense.	

Maintenance Log

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

Activity	Date accomplished/measured water usage									
Check daily for a period of time and weekly once average use is determined:										
Water usage rate (gallons per day)										
Leaks: check for plumbing leaks										
Annually:										
Establish and maintain contract for holding tank pumping services										
Water use appliances – review use										

Water Meter Reading and Tank Evacuation Schedule			
Date	**Water Meter Reading (in gallons)**	**Tank Contents Removed?**	**Total Gallons Removed**

Notes:

Mitigation/corrective action plan:

"As the owner of this SSTS, I understand it is my responsibility to properly operate and maintain the sewage treatment system on this property, utilizing the Management Plan. If requirements in this Management Plan are not met, I will promptly notify the permitting authority and take necessary corrective actions.

Property Owner Signature: Date

Management Plan Prepared By: Brant Bigger Certification # C1835

Permitting Authority: Becker County