



191727538

Onsite Septic System Application

Becker County Planning & Zoning
 915 Lake Ave, Detroit Lakes, MN 56501
 Phone (218)-846-7314; Fax (218)-846-7266

PARCEL	
APP	SEPTIC
YEAR	
SCANNED	
LAKE	

1. PROPERTY DATA (as it appears on the tax statement, purchase agreement or deed)

Parcel Number(s) of property where the system will be installed: 191 727 538

Is this a split of an existing property? Yes No

(If yes and a parcel number has not yet been assigned, indicate the main parcel number from which the new parcel was split.)

Section 5 Township 138 Range 41 Township Name Lake View

Lake Name _____ Lake Classification _____

Legal Description: Ridge View 138 41 Block 003 Lot 4

Project Address: 15803 Ridge View Ln E

2. PROPERTY OWNER INFORMATION (as it appears on the tax statement, purchase agreement or deed)

Owner's First Name Wugget Investments LLC Owner's Last Name _____

Mailing Address PO Box 297 City, State, Zip Hailey MN 56549

Phone Number 218 - 290 - 1468

3. DESIGNER/INSTALLER INFORMATION

Designer Name Patricia Stock Company Name A - I Septic License # 2029

Address 3043 300th Mahanomen Phone Number 218 966 7295

Installer Name Same Company Name _____ License # _____

Address _____ Phone Number _____

4. SYSTEM DESIGN INFORMATION

System Status

What will new system serve? Check one

- ☒ Vacant Lot-No existing system-new structure
☐ Replacement - structure removed and being rebuilt
☐ Failing -Replacement- cesspool/seepage pit or other
☐ Enlargement of system-Undersized
☐ Repairs Needed to existing
☐ Additional system on property

- ☒ Dwelling
☐ Resort/Commercial
☐ Commercial (Non-resort)
☐ Other - explain below

6-28-16 Date of site evaluation

Design Flow 600 Gallons Per Day
 Number of Bedrooms 4
 Garbage Disposal Yes ☒ No
 Dishwasher Yes ☒ No
 Lift station in House Yes ☒ No
 Grinder pump in House Yes ☒ No

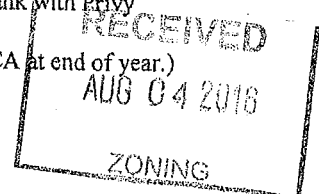
Well Depth Deep
 Depth of other wells within
 100 ft of system _____

Original Soil ☒ Compacted Soil _____
 Type of Soil Observation
☒ Pit _____ Probe _____ Boring
 Depth to Restricting Layer 22
 Maximum Depth of System 16

Size of All Tanks to be installed
1500 gal Single Compartment Septic Tank 1600 gal Separate Lift Station
 _____ gal Compartmented Tank _____ gal Holding Tank
 _____ Pit Privy _____ Existing Tank to be used

_____ Existing tank w/new Additional Tank
 _____ Existing tank w/new Lift Station
 _____ Holding Tank with Privy

Total Number of tanks to be installed in this system 2 (This # will be reported to MPCA at end of year.)



Rock trench _____ sq ft
 Gravelless _____ sq ft
 Mound _____ sq ft ***
 X Pressure Bed 769 sq ft ***
 Seepage Bed _____ sq ft ***
 At-grade _____ sq ft ***
 Alternative / _____ sq ft ***
 Performance

Alarm? Yes X No _____
 Type of Alarm _____
 Size of Lift Pump 1/2 house
 Size of Lift Line 2"

PROPOSED SETBACKS

	TANK	DRAINFIELD
Distance to Well	<u>50</u>	<u>50</u>
Distance to Building	<u>10</u>	<u>50</u>
Distance to Property Line	<u>10</u>	<u>10</u>
Distance to OHW of Lake	<u>N/A</u>	<u>N/A</u>
Distance to Pressure Line	<u>50</u>	<u>50</u>
Distance to Wetland/Protected Water	<u>N/A</u>	<u>N/A</u>

Perc Rate _____ Soil Sizing Factor _____ *If SSF other than .83, attach Perc Test Data

Soil Borings (three are required)

Depth	Texture	Color	Structure		Depth	Texture	Color	Structure
	See Attached Sheets							

Depth	Texture	Color	Structure		Depth	Texture	Color	Structure

5. REQUIRED DOCUMENTS

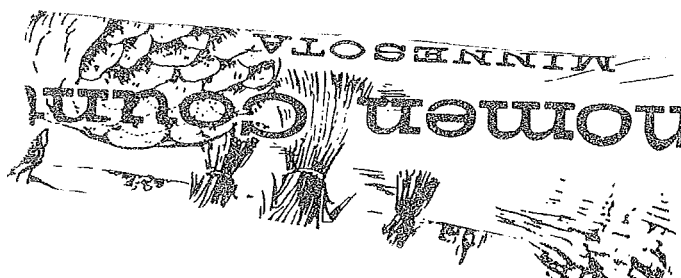
U of MN worksheets are required for mounds, pressure beds, seepage beds, at-grades or Type IV or Type V systems. Are the required worksheets attached? X Yes _____ No

6. DESIGNER'S CERTIFIED STATEMENT

Patricia Stock certify that I have completed the preceding design work in accordance with all applicable requirements (including, but not limited to Minnesota Chapter 7080 and the Becker County Individual Sewage Treatment System Ordinance).

Patricia Stock
Signature of Designer

7-3-16
Date



well not in yet
will be 50" away

60.52

45.58

W

1500gal septic tank

18X44 pressure bed

to client



1000gal pump tank

Brown

garage

4bd house

15803 Ridgeview Ln. E

Parcel #191727538

(Date)

Additional Percolation Data

UNIVERSITY
OF MINNESOTA



Test hole: #2

Location:

Starting time:

Depth**:

** 12 in. for mounds & at-grades,
depth of absorption area for trenches
and beds

Soil texture description:

Depth (in)	Soil Texture

Reading	Start Time	End Time	Start Reading (in)	End Reading (in)	Perc rate (mpi)	% Difference Last 3 Rates	Pass
1						NA	NA
2						NA	NA
3							

Chosen Percolation Rate for Test Hole #2 mpi

Test hole: #3

Location:

Date reading taken:

Elevation:

Starting time:

Depth**:

** 12 in. for mounds & at-grades,
depth of absorption area for trenches
and beds

Soil texture description:

Depth (in)	Soil Texture

Reading	Start Time	End Time	Start Reading (in)	End Reading (in)	Perc rate (mpi)	% Difference Last 3 Rates	Pass
1						NA	NA
2						NA	NA
3							

Chosen Percolation Rate for Test Hole #3 mpi

Additional Percolation Data

UNIVERSITY
OF MINNESOTA



Test hole: #4

Location:

Date reading taken:

Elevation:

Starting time:

Depth**:

** 12 in. for mounds & at-grades,
depth of absorption area for trenches
and beds

Soil texture description:

Depth (in)	Soil Texture

Reading	Start Time	End Time	Start Reading (in)	End Reading (in)	Perc rate (mpi)	% Difference Last 3 Rates	Pass
1						NA	NA
2						NA	NA
3							

Chosen Percolation Rate for Test Hole #4 mpi

Test hole: #5

Location:

Date reading taken:

Elevation:

Starting time:

Depth**:

** 12 in. for mounds & at-grades,
depth of absorption area for trenches
and beds

Soil texture description:

Depth (in)	Soil Texture

Reading	Start Time	End Time	Start Reading (in)	End Reading (in)	Perc rate (mpi)	% Difference Last 3 Rates	Pass
1						NA	NA
2						NA	NA
3							

Chosen Percolation Rate for Test Hole #5 mpi



v 11.3.28

1. Contact Information

Property Owner/Client:	Raymond Redding	Client Phone Number:	
Mailing Address			
Site Address	15803 Ridgeview Lane Detroit Lakes MN		
Parcel I.D.	191727538	Township #	
		Range #	W Section
Date	6/28/16	Township name	
		Legal Desc or Lat/Long	
Evaluation for system type	☒ New Construction	☐ Replacement	Parcel dimensions

2. Flow Information

Client-Provided Information

Type(s) of use (all that apply)	☒ Residential	☐ Commercial	☐ Other Use (Specify)	
No. of bedrooms* (if applicable)		Unfinished space (ft ²)		
No. of residents in home	☐ Adults	☐ Children	☐ Teenagers	☐ Daycare
Existing flow measurements	☐ Yes (If Yes, attach readings) ☐ No			
Water-using devices (check all that apply)	☐ Garbage Disposal	☐ Water Softener*	☐ Iron Filter*	
	☐ Dishwasher	☐ Sump Pump*	Other (specify)	
	☐ Large Bathtub/Jacuzzi	☐ High Efficiency Furnace*	* Clear water source	
	☐ Laundry/Large Tub on 2nd Floor	☐ Hot Tub*		
Water use concerns (check all that apply)	☐ Faucet/Toilet	☐ Multiple Loads of Laundry/Day	☐ Long-Term Prescription Meds	
	☐ In-Home Business	☐ No Lint Screen	☐ Use of Anti-Bacterial Soap	☐ Frequent Entertaining of Out-of-Town Guests
Any additional current or future uses on this parcel (specify)				
Any non-sewage discharges to system (specify)				
Sewage ejector or grinder pump in home	☐ Yes ☒ No			
I acknowledge the above is complete and accurate	(Client(s) signature and date)			

Designer-determined Flow Information

A. Estimated Design Flow (gallons per day)	600	
Anticipated waste strength values:	☒ Domestic	☐ High Strength
BOD:		mg/L
CBOD:		mg/L
TSS:		mg/L
O&G:		mg/L

3. Preliminary Site Information

B(1). Water supply well(s) within 100 ft of absorption area	☒ Yes	☐ No
Well(s) were located	☐ Direct Observation	☐ County Well Index Maps
	☐ Personal Communication	MN Unique Well Id #:
Depth of well(s)	not in yet	ft
Well casing depth(s)		ft
Source		
B(2). Site within 200 ft of noncommunity transient supply well	☐ Yes	☒ No
Source		
B(3). Site within a drinking water supply management area	☐ Yes	☒ No
Source		
B(4). Location of all existing and proposed buildings and improvements on lot (see Site Evaluation map)		
B(5). Buried water supply pipes within 50 ft of proposed system	☐ Yes	☒ No
Source		
C. Location of all easements on lot (see Site Evaluation map)		
D. Elevation of ordinary high water level (OWHL) - MN DNR (if adjacent to parcel)		
E. Floodplain designation and flood elevation		Source
F. Determine property lines (see Site Evaluation map)	☒ Survey	☐ Plat Map
	☐ Other	
Site located in a shoreland district/area	☐ Yes	☒ No
G. Distance of setbacks	☒ Property Lines	☐ OHWL
	☐ Other Buildings	☐ Easements
		☐ Water Supply Pipes
		☒ Well(s)
H. Soil Survey Information (from web soil survey)	☐ Map	Map Units on Parcel
List landforms		Slope Range
Parent materials - check all that apply	☐ Till	☐ Outwash
	☐ Lacustrine	☐ Organic
	☐ Alluvium	☐ Cut/Fill
	☐ Colluvium	☐ Bedrock
		☐ Landscape Position (check all that apply)
		☐ Summit
		☐ Shoulder
		☐ Backslope
		☐ Footslope
		☐ Toeslope
		☐ Depression
		☐ Stream
		☐ Terrace
		☐ Manmade
		☐ Plain
Minimum bedrock depth:		inches
Maximum bedrock depth:		inches
Minimum bedrock depth:		inches
Maximum bedrock depth:		inches
Map Unit	Septic Tank Absorption Field - Trench (MN)	
Ratings	Septic Tank Absorption Field - At-grade (MN)	
	Septic Tank Absorption Field - Mound (MN)	

OSTP Preliminary Evaluation Form



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4. Preliminary Soil Profile Information (from web soil survey - map unit description & official series descriptions)

Enter information here or attach map and description.

Map Unit	Depth	Texture(s)	Structure(s)	Consistence	Other (flooding, ponding, etc.)
Horizon 1					
Horizon 2					
Horizon 3					
Horizon 4					
Horizon 5					

Map Unit	Depth	Texture(s)	Structure(s)	Consistence	Other (flooding, ponding, etc.)
Horizon 1					
Horizon 2					
Horizon 3					
Horizon 4					
Horizon 5					

Map Unit	Depth	Texture(s)	Structure(s)	Consistence	Other (flooding, ponding, etc.)
Horizon 1					
Horizon 2					
Horizon 3					
Horizon 4					
Horizon 5					

Map Unit	Depth	Texture(s)	Structure(s)	Consistence	Other (flooding, ponding, etc.)
Horizon 1					
Horizon 2					
Horizon 3					
Horizon 4					
Horizon 5					

5. Local Government Unit Information

Name of LGU			LGU Contact	
LGU-specific setbacks				
LGU-specific design requirements				
LGU-specific installation requirements				

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

(Designer)

(Signature)

(License #)

(Date)



1. Contact Information

Property Owner/Client Raymond Redding

Client Phone Number:

Address 15803 Ridgeview Lane Detroit Lakes MN

Date 6/28/2016

Weather Conditions

sunny

2. Utility and Structure Information

Utility Locations Identified

☐ Gopher State One Call #☐ Any Private Utilities

Property Lines

☐ Determined and Approved By Client☒ Determined But Not Approved☐ Approximate☐ Property Lines Surveyed

Client's Approval (initial)

Locate and Verify (see Site Evaluation map)

☐ Existing Buildings☐ Improvements☐ Easements☐ Setbacks

3. Site Information

Percent Slope

2

Slope Direction

downslope

Landscape Position

Slope Shape

linear

Vegetation type(s)

grasses

Evidence of cut, fill, compacted or disturbed areas

☐ Yes☒ No☐ Locate Areas on Site Evaluation Map

Discuss the flooding or run-on potential of site

Identify benchmarks and elevations (Site Evaluation Map)

Proposed soil treatment area adequately protected

☒ Yes☐ No

4. General Soils Information

Original soils

☒ Yes☐ No

Type of observation

☐ Soil Probe☐ Soil Boring☒ Soil Pit*

*Soil pit required if determining loading rate without perc test

Number of soil observations

1

Soil observations were conducted in the proposed system location

☒ Yes☐ No

A soil observation was made within the most limiting area of the proposed system

☒ Yes☐ No

Soil boring log forms completed and attached

☒ Yes☐ No

Percolation tests performed, forms completed and attached

☒ Yes☐ No

5. Phase I. Reporting Information

Depth to standing water

na

inches

Flood elevation

feet

Depth to bedrock

inches

Anticipated construction issues

Depth to periodically saturated soil

72

inches

Maximum depth of system

inches

Elevation at system bottom

18

feet

Differences between soil survey and field evaluation

Percolation rate

10

min/inch

Loading rate

0.78

gpd/ft²

Contour loading rate

6

gpd/ft

Site evaluation issues / comments

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

(Designer)

(Signature)

(License #)

(Date)



Date

Time

Client/ Address:

Raymond Redding

Legal Description/ GPS

15803 Ridgeview Lane Detroit Lakes MN

Landscape position

downslope

Vegetation

grasses

Soil parent materials
(Check all that apply)☒ Outwash☐ Lacustrine☐ Loess☒ Till☐ Alluvium☐ Bedrock☐ Organic

Observation #/Location:

Soil survey map units

Depth (in)	Texture	Coarse Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	----- Structure -----		
							Shape	Grade	Consistence
0-10	medium sandy loam		10yr 2/2				Granular	Weak	Friable
11-30	medium sandy loam		10yr 5/3				Blocky	Weak	Friable
31-60	coarse sandy loam		10yr 4/3				Blocky	Weak	Friable
61-72	medium loamy sand		10yr 6/3				Single grain	Structureless	Loose

Comments

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

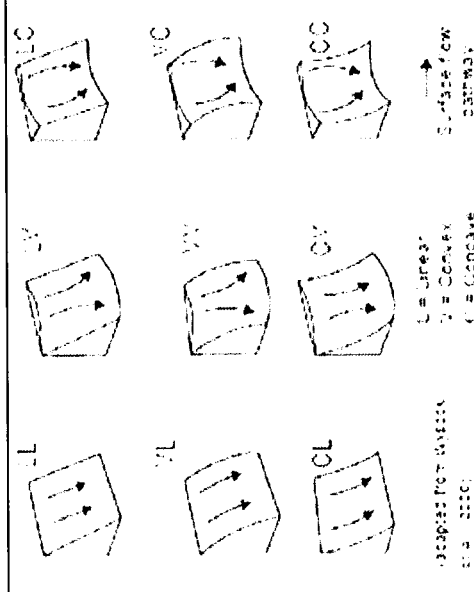
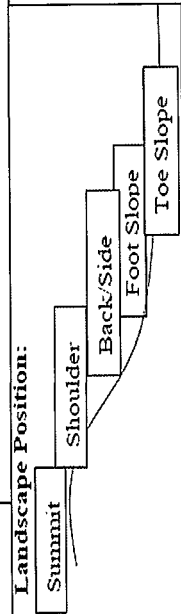
(Designer)

(Signature)

(License #)

(Date)

Textures:	Subsoil Indicator(s) of Saturation:	Consistence:
c-clay	S1. Distinct gray or red redox features	Intact specimen not available
sic-silty clay	S2. Depleted matrix (value > / = 4 and chroma < / = 2)	Slight force between fingers
sc-sandy clay	S3. 5Y chroma < / = 3	Moderate force between fingers
cl-clay loam	S4. 7.5 YR or redder faint redox concentrations or redox depletions	Moderate force between hands or slight foot pressure
sicl-silty clay loam	If yes to one of the above indicators then:	Foot pressure
scl-sandy clay loam	Topsoil Indicator(s) of Saturation:	Slope Shape:
si-silt	T1. Wetland Vegetation	Slope shape is described in two directions: up and down slope (perpendicular to the contour), and across slope (along the horizontal contour); e.g. Linear, Convex or LV'.
sil-silt loam	T2. Depressional Landscape	
l-loam	T3. Organic texture or organic modifiers	
sl-sandy loam	T4. N 2.5/ 0 color	
ls-loamy sand	T5. Redox features in topsoil	
s-sand	T6. Hydraulic indicators	
Soil Structure		
Grade:		
<u>Massive-</u>	No observable aggregates, or no orderly arrangement of natural lines of weakness	
<u>Weak-</u>	Poorly formed, indistinct peds, barely observable in place	
<u>Moderate-</u>	Well formed, distinct peds, moderately durable and evident, but not distinct in undisturbed soil	
<u>Strong-</u>	Durable peds that are quite evident in un-displaced soil, adhere weakly to one another, withstand displacement, and become separated when soil is disturbed	
<u>Loose-</u>	No peds, sandy soil	
Soil Structure		
Shape:		
<u>Granular-</u>	The peds are approximately spherical or polyhedral and are commonly found in topsoil. These are the small, rounded peds that hang onto roots when soil is turned over.	
<u>Platy-</u>	The peds are flat and plate like. They are oriented horizontally and are usually overlapping. Platy structure is commonly found in forested areas just below the leaf litter or shallow topsoil.	
<u>Blocky-</u>	The peds are block-like or polyhedral, and are bounded by flat or slightly rounded surface that are casting of the faces of surrounding peds. Blocky structure is commonly found in the lower topsoil and subsoil.	
<u>Prismatic-</u>	Flat or slightly rounded vertical faces bound the individual peds. Peds are distinctly longer vertically, and faces are typically cast or molds of adjoining peds. Prismatic structure is commonly found in the lower subsoil.	
<u>Single Grain-</u>	The structure found in a sandy soil. The individual particles are not held together.	



Additional Soil Observation Logs

**ON-SITE
SEWAGE
TREATMENT
PROGRAM**



Date _____

time

Client/ Address: **Raymond Redding**

Legal Description/ GPS

15803 Ridgeview Lane Detroit Lakes MN

Soil parent materials
(Check all that apply)

☐ Outwash☐ Lacustrine

Loess

☐ Till

☐ Alluvium

☐ Bedrock

☐ Organic

Landscape position

Vegetation

Observation #/Location:

Soil survey map units

Soil parent materials

slope

Depth (in)

Texture

Coarse Frag. %	Fine Frag. %	Gravel %	Clay %	Water %	Organic %	Other %
100	0	0	0	0	0	0
90	10	0	0	0	0	0
80	20	0	0	0	0	0
70	30	0	0	0	0	0
60	40	0	0	0	0	0
50	50	0	0	0	0	0
40	60	0	0	0	0	0
30	70	0	0	0	0	0
20	80	0	0	0	0	0
10	90	0	0	0	0	0
0	100	0	0	0	0	0

Matrix Color(s)

Mottle Color(s)

Redox Kind(s)

Indicator(s)

Shape

Grade

Consistence

Structure

Comments

Observation #/Location:

Depth (in)

Texture

Coarse Frag. %	Medium Frag. %	Fine Frag. %	Very Fine Frag. %	Clay %	Organic Matter %	Other %
100	0	0	0	0	0	0
90	10	0	0	0	0	0
80	20	0	0	0	0	0
70	30	0	0	0	0	0
60	40	0	0	0	0	0
50	50	0	0	0	0	0
40	60	0	0	0	0	0
30	70	0	0	0	0	0
20	80	0	0	0	0	0
10	90	0	0	0	0	0
0	100	0	0	0	0	0

Matrix Color(s)

Mottle Color(s)

Redox Kind(s)

Indicator(s)

Shape

Grade

Consistence

Structure-----

Comments

YEAR

***** FOR OFFICE USE ONLY *****

Application Approved by: Steve MottDate: 8-5-16Amount Paid 150.00Receipt Number 221815Permit Number 634367

NOTES: _____

INSPECTION REPORT

Home Information

Does the structure contain any of the following elements?

Garbage disposer Yes ☒ NoDishwasher Yes ☒ NoGrinder pump Yes ☒ NoLift pump in basement Yes ☐ NoEffluent screen installed? Yes ☒ No

Effluent screen manufacturer _____

Alarm required? Yes ☐ No ☐ Alarm Type _____ Alarm manufacturer _____Lift pump in system? Yes ☐ No ☐ Pump manufacturer _____Number of bedrooms 4

Component Information

Tank size 1500 21C

Tank manufacturer _____

Drainfield size 769

Drainfield medium _____

Medium manufacturer _____

Drainfield medium size/depth _____

Soil Verification

Vertical separation verified for Boring #1 on 10/24/16 Depth 0-18"

Vertical separation verified for Boring #2 on _____ Depth _____

Vertical separation verified for Boring #3 on _____ Depth _____

Setback Verification

Distance to Well

Distance to Building

Distance to Property Line

Distance to OHW of Lake

Distance to Pressure Line

Distance to Wetland/Protected Water

TANK
30+
10+
10+
—
—
—DRAINFIELD
30+
20+
10
—
—
—Date System Installed 10/24/16Installer PSI LockInspector Tatna

CERTIFICATE OF COMPLIANCE

() Certificate Is Hereby Denied

(x) Certificate is Hereby Granted Based upon the Application, addendum from, plans, specifications and all other supporting data. With property maintenance, this system can be expected to function satisfactory, however, this is not a guarantee.

Signature TatnaTitle InspectorDate 10/31/16

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