

# ZIERKE SOIL TESTING

Blaine Erickson  
9150 64<sup>th</sup> St N  
Stillwater, MN 55082

May 13th, 2024

Dear Blaine Erickson,

At your request, I have conducted a septic inspection to determine the compliance status of your septic system pursuant to Minnesota Rules Chapter 7080.1500.

The compliance test set out in 7080.1500 has three main inquiries: 1). Is the system functioning hydraulically (disposing of effluent in a manner that prevents it from coming in contact with people)? 2). Are the septic tanks water tight? 3). Does the system have sufficient vertical separation between the bottom of the septic system and restrictive layers (bedrock, standing water, seasonally wet layers, etc) to provide full treatment of effluent?

Based off of these criteria, your system is non-compliant due to a lack of vertical separation between the bottom of your drain field and indicators of seasonally wet soil (redoximorphic features). The septic tank is also considered non-compliant because we opted not to pump it after the system failed on the soils portion of the test. This system is considered "failing to protect groundwater" and is not considered an imminent threat to public health. I am required to provide copies of this report to you and to Washington County. You should contact them as to the next steps that will be required to bring the system into compliance.

Sincerely,



Benjamin Zierke  
MPCA Lic 119, Cert 9594

ADDRESS:  
28587 Jeffrey Ave  
Chisago City, MN 55013

PHONE 651-249-1346  
EMAIL benzierke@gmail.com

# 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: 3403021320011 Reason for Inspection Sale  
 Local regulatory authority info: Washington County  
 Property address: 9150 64<sup>th</sup> St N Stillwater, MN 55082  
 Owner/representative: Blaine Erickson (Karin Moore daughter) Owner's phone: Karin612-490-5471  
 Brief system description: 1200 gallon pre-cast septic tank, gravity rock trench drainfield

### System status

System status on date (mm/dd/yyyy): 5/13/2024

**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: Zierke Soil Testing Certification number: 9594  
 Inspector signature: *Benjamin Zierke* License number: 119  
 (This document has been electronically signed) Phone: 651-249-1346

### 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): Permit Information

## 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:**

None of the above observed.

## 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 type="checkbox"/> No
If yes, which sewage tank(s) leaks:	

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

**Attached supporting documentation:**

- Empty tank(s) viewed by inspector
- Name of maintenance business: \_\_\_\_\_
- License number of maintenance business: \_\_\_\_\_
- Date of maintenance: \_\_\_\_\_
- Existing tank integrity assessment (Attach)
- Date of maintenance (mm/dd/yyyy): \_\_\_\_\_ (must be within three years)
- (See form instructions to ensure assessment complies with Minn. R. 7082.0700 subp. 4 B (1))
- Tank is Noncompliant (pumping not necessary – explain below)
- Other: \_\_\_\_\_

**Describe verification methods and results:**

System failed for lack of soil separation. Tank not inspected and thus considered non-compliant. Operating level appeared normal during site visit 5/13/2024

### 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 8/10/1979  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	94.9'
B. Periodically saturated soil/bedrock	99.0'
C. System separation	-4.1'
D. Required compliance separation*	2.0'

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

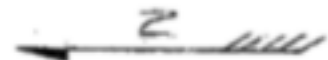
**\*Any "no" answer above indicates the system is failing to protect groundwater.**

**Describe verification methods and results:**

See attached boring log and elevations.

**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.

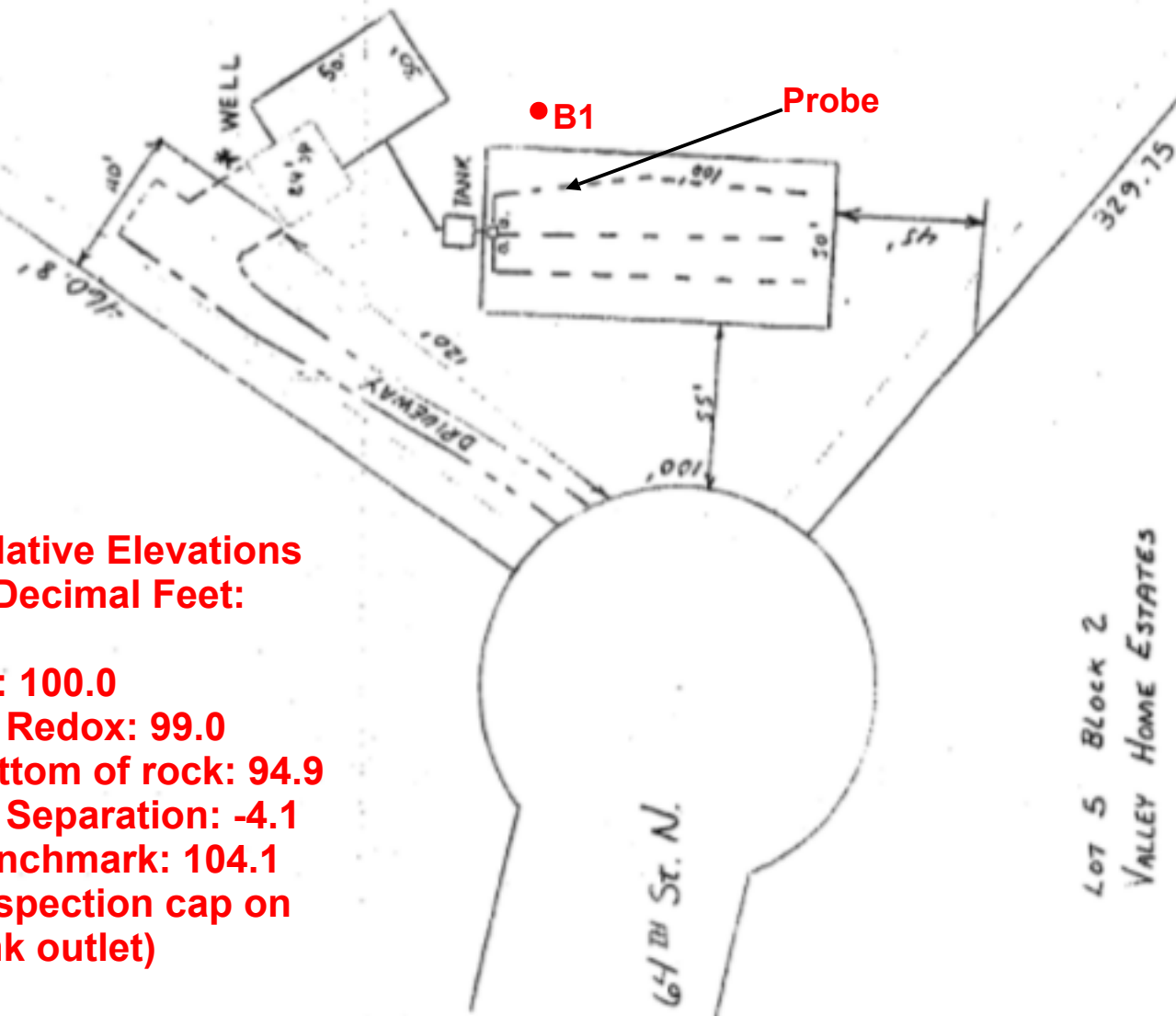
**\*Site Visit Notes  
from 5/13/2024 in RED\***



1" = 50'

**Relative Elevations  
in Decimal Feet:**

**B1: 100.0  
B1 Redox: 99.0  
Bottom of rock: 94.9  
B1 Separation: -4.1  
Benchmark: 104.1  
(inspection cap on  
tank outlet)**



LOT 5 BLOCK 2  
VALLEY HOME ESTATES

BLAINE ERICKSON  
13682 30th ST. CIR N.  
STILLWATER MN 55082  
439-2305 - HOME  
733-7314 - WORK

REV	DATE
1	1-4-79
2	2-5-79

## Logs of Soil Borings

Location of Project: 9150 64th St N Stillwater, MN 55082

Borings Made by Ben Zierke

Date: 5/13/2024

Hand bucket auger used for borings; USDA - SCS Soil Classification used.

Depth, in Inches	Boring Number 1	Depth, in Inches	Boring Number 2
0-----	-----	0-----	-----
0-12"	10YR 3/2 fine sandy loam		
12-23"	10YR 4/2 silt loam, 7.5YR 5/6 iron staining (redox)		
23-48"	10YR 5/4 silty clay loam, 10YR 5/2 depletions at 23", stronger 7.5YR 5/8 concentrations and 10YR 6/1 redox below 40"		

End of boring at 4 feet  
**Standing water table:**  
 Present at \_\_\_\_\_ feet of depth \_\_\_\_\_ Hours after boring  
 Standing water not present in hole   
**Mottled Soil:**  
 Observed at 1 feet of depth   
 Mottled soil not present in bore hole   
 Comments:

End of boring at \_\_\_\_\_ feet  
**Standing water table:**  
 Present at \_\_\_\_\_ feet of depth \_\_\_\_\_ Hours after boring  
 Standing water not present in hole   
**Mottled Soil:**  
 Observed at \_\_\_\_\_ feet of depth   
 Mottled soil not present in bore hole   
 Comments:

Depth, in Inches	Boring Number 3	Depth, in Inches	Boring Number 4
0-----	-----	0-----	-----

End of boring at \_\_\_\_\_ feet  
**Standing water table:**  
 Present at \_\_\_\_\_ feet of depth \_\_\_\_\_ Hours after boring  
 Standing water not present in hole   
**Mottled Soil:**  
 Observed at \_\_\_\_\_ feet of depth   
 Mottled soil not present in bore hole   
 Comments:

End of boring at \_\_\_\_\_ feet  
**Standing water table:**  
 Present at \_\_\_\_\_ feet of depth \_\_\_\_\_ Hours after boring  
 Standing water not present in hole   
**Mottled Soil:**  
 Observed at \_\_\_\_\_ feet of depth   
 Mottled soil not present in bore hole   
 Comments:

Permit Fee \$ 25.00

OFFICE OF THE ZONING ADMINISTRATOR  
WASHINGTON COUNTY, MINNESOTA  
Tel. 439-3220

PERMIT TO INSTALL SEWAGE DISPOSAL SYSTEM

Owner Blaine ERICKSON Permit No. 2098  
NAME ADDRESS LOT 5, Block Valley Home Estates

MINIMUM SYSTEM REQUIRED: 3 Bedrooms, Percolation Rate 15 M in/Inch

Septic Tank 1200 Gal. Liquid Capacity Lift Station N/A Gal.

Distribution Box Concrete with Drop Box Removable Cover

Absorption Trench - Square Feet 570 Lineal Feet 285 Width 24"

Depth of Rock Below Tile Lines 12 Inches, Above Tile 2 Inches

Depth of Trench - Minimum Cover 18 Inches, Maximum Cover 18 Inches

Minimum Number of Lines 3 Maximum Length of Individual Line 100 Ft.

Recommended Number of Lines 3 @ 95'

Minimum Spacing of Lines 6 1/2 Ft. Center to Center.

Inspection of Installation Must Be Accomplished By This Office Before Any Portion of System is Covered.

Special Conditions System to go in Area Tested and shown on Attached Site Plan, Line from House to TANK to be CAST IRON TRENCHES NO DEEPER than 24" INTO NATURAL SOIL

System Inspected 8-10-79  
DATE

Installation Approved C. Borden  
INSPECTOR

Comments 2 lines 3' wide - Deeper than should be BUT soil appears OK - OK for cover first line to get at 2nd line -

PERMIT: Permission is hereby granted to the above named applicant to perform the work described in the application, to the specifications shown under minimum system required. This permit is granted upon express condition that the person to whom it is granted, and his agents, employees and workmen shall conform in all respects to ordinances of Washington County, Minnesota. This permit may be revoked at any time upon violation of any said ordinance, and permit shall be void if work is not commenced within (6) months. Installer must hold current Septic Installer License with Washington County.

Approved: C. Borden 2-7-79  
ZONING ADMINISTRATOR (DATE)



APPLICATION FOR PERMIT TO INSTALL SEWAGE DISPOSAL SYSTEM  
WASHINGTON COUNTY PLANNING DEPARTMENT

1	Legal Description <b>LOT 5, BLOCK 2 VALLEY HOME ESTATES</b>				
2	Owner	Mail Address	City	Zip	Phone
	<b>BLAINE R. ERICKSON</b>	<b>13682 30<sup>TH</sup> ST. C.R. N.</b>	<b>STILLWATER</b>	<b>MIN 55082</b>	<b>439-2305</b>
3	Tester	Mail Address	City	Zip	Phone
	<b>SELF</b>				
4	Installer	Mail Address	City	Zip	Phone
	<b>NOT DETERMINED, INSTALLATION DUE 7-79</b>				
5	Use of Building: <b>RESIDENTIAL</b>		Number of Bedrooms or Gallons Per Day <b>3 BDRM</b>		
6	Type of Work:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Alteration	<input type="checkbox"/> Repair	<input type="checkbox"/> Approval Only
7	Has site previously been reviewed by Washington County? (If previously approved, attach letter of approval)			<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes Approved <input checked="" type="checkbox"/> Denied

The following exhibits are required as a part of this application and shall be attached hereto: Percolation Test Logs; Soil Boring Logs; Site Plan drawn to scale showing location of Buildings, Lot Lines, Percolation Test Holes, Soil Boring Holes, Proposed Location of System, and Well. Also, the house and the drainfield area must be staked. One copy of the final building plan must be made available for review at the time application is processed. Improper or inadequate test or information will result in delays in processing.

Agreement: The undersigned hereby makes Application for Permit to Install or Extend Sewage Disposal System herein specified, agreeing that all such work shall be done in strict accordance with ordinances and regulations of the County of Washington, Minnesota and Minnesota Department of Health. Applicant agrees that the Site Plan, Sketches, and Specifications submitted herewith, and which are approved by the Washington County Zoning Administrator, together with any requirement and/or restriction made necessary by conditions peculiar to a particular location, shall become a part of the permit. Applicant further agrees that no part of the system shall be covered until it has been inspected and accepted. Application is for an installation at a specific location on the site; any deviation from the approved location will cause the permit to become void. It shall be the responsibility of the applicant for the permit to notify the Office of the Zoning Administrator that the installation is ready for inspection.

2-5-79

DATE

*Blaine R. Erickson*

SIGNATURE OF APPLICANT

**RESUBMITAL**

FOR OFFICE USE ONLY

Reviews: Planner: \_\_\_\_\_ Inspector: *al & al* Date: *2/6/79*

Site Evaluation:

Soil Boring Evaluation: Depth to Water Table, Seasonal Water Table (Mottled Soil), Impervious Layer or Bedrock:

Soils Map Data: \_\_\_\_\_ Percolation Test Evaluation: *15 MP*

Topography: \_\_\_\_\_ Pump System Required:  Yes  No

Setbacks: \_\_\_\_\_ Required (circle) \_\_\_\_\_ Actual \_\_\_\_\_

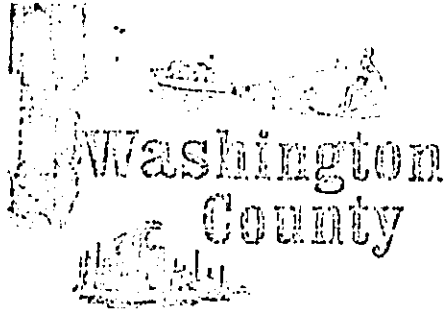
Well (including adjacent property) ..... 50', 75'  
Lake, Pond, Stream, River, or Bluffline ..... 40', 75', 100', 150', 200'  
Buildings (including adjacent property) ..... 20'  
Property Lines ..... 10'

Conclusions:

Site Suitable:  Site Unsuitable:  Additional Tests Required:  Verify No. Bedrooms:

Notes:

*Trenches No Deeper Than 24" INTO NATURAL SOIL*



PLANNING DEPARTMENT

WASHINGTON COUNTY COURT HOUSE • 14900 61ST STREET NORTH  
STILLWATER, MINNESOTA 55082

WILLIAM A. SCHWAB  
COUNTY PLANNING COORDINATOR

January 29, 1979

Elaine R. Erickson  
13682 30th St. Circle No.  
Stillwater, Mn. 55082

Dear Mr. Erickson,

We have reviewed the soil tests you submitted, and have inspected your site, being Lot 5, Block 2 Valley Home Estates. I am sorry to inform you that under present codes the area tested would not be suitable for the installation of an on-site sewage disposal system, due to a saturated soil condition indicated by mottled soil at 40" in perc hole #5. It appears the area tested is in a water collection area. Further testing should be done much higher up.

If you have any further questions regarding this matter please feel free to contact me.

Sincerely,

Al Borsheim  
Building Inspector

AMB/snm

RECEIVED

APPLICATION FOR PERMIT TO INSTALL SEWAGE DISPOSAL SYSTEM  
WASHINGTON COUNTY PLANNING DEPARTMENT

JAN 03 1979

1	Legal Description <i>LOT 5 BLOCK 2 VALLEY HOME ESTATES</i>				
2	Owner	Mail Address	City	Zip	Phone
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3	Tester	Mail Address	City	Zip	Phone
	<i>BLAINE R. ERICKSON</i>	<i>SAME</i>			
4	Installer	Mail Address	City	Zip	Phone
	<i>NOT KNOWN, TEST REQUIRED FOR CLOSING ON LOT</i>				<i>INSTALLATION SCHEDULED JUNE OR JULY '79</i>
5	Use of Building: <u><i>RESIDENTIAL</i></u>		Number of Bedrooms or Gallons Per Day <u><i>3</i></u> <i>Bedrm</i>		
6	Type of Work: <input checked="" type="checkbox"/> New <input type="checkbox"/> Alteration <input type="checkbox"/> Repair <input type="checkbox"/> Approval Only				
7	Has site previously been reviewed by Washington County? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If previously approved, attach letter of approval)				<input type="checkbox"/> Approved <input type="checkbox"/> Denied

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*1-2-78*

DATE

*Blaine R. Erickson*

SIGNATURE OF APPLICANT

*439-2305*

*733-9314*

FOR OFFICE USE ONLY

Reviews: Planner: \_\_\_\_\_ Inspector: \_\_\_\_\_ Date: \_\_\_\_\_

Site Evaluation:

Soil Boring Evaluation: Depth to Water Table, Seasonal Water Table (Mottled Soil), Impervious Layer or Bedrock:

Soils Map Data: \_\_\_\_\_ Percolation Test Evaluation: \_\_\_\_\_

Topography: \_\_\_\_\_ Pump System Required:  Yes  No

Setbacks: \_\_\_\_\_ Required (circle) \_\_\_\_\_ Actual \_\_\_\_\_

Well (including adjacent property) ..... 50', 75'

Lake, Pond, Stream, River, or Bluffline ..... 40', 75', 100', 150', 200'

Buildings (including adjacent property) ..... 20'

Property Lines ..... 10'

Conclusions:

Site Suitable:  Site Unsuitable:  Additional Tests Required:  Verify No. Bedrooms:

Notes:

*go in on snowmobile trail off end of cul-de-sac.*

*Heavy mottled soil at 40" Hole #5 Test taken in low swail*