

ZIERKE SOIL TESTING

Wayne Kolden
22845 Perkins Ave N
Scandia, MN 55073

2/23/2024

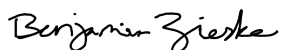
Dear Wayne Kolden,

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 septic system is compliant. A certification of compliance is in effect for three years from the date it is issued. To be clear, this should not be construed as a guarantee of future system function – there are too many factors that influence the lifespan of a septic system for an inspector to predict or even guess how long a septic system will last. A copy of this report will be filed with your local unit of government for their records.

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: 1203220210007 Reason for Inspection Sale

Local regulatory authority info: Washington County

Property address: 22845 Perkins Ave N Scandia, MN 55073

Owner/representative: Wayne Kolden Owner's phone: 605-660-4382

Brief system description: (2) 1000 gallon septic tanks, gravity rock trench drainfield

System status

System status on date (mm/dd/yyyy): 2/23/2024

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

Root infiltration is occurring above the operating level on both tanks - tank one is slightly worse. Recommend clearing roots and monitoring root growth at future maintenance visits.

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): Previous soil observations

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:

None of the above observed.

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:

Present for pumping by Smilies Sewer 2/23/24. Tanks water tight and baffles in place. Some root issues observed above the operating levels of the tanks.

Attached supporting documentation:

Empty tank(s) viewed by inspector

Name of maintenance business: Smilies

License number of maintenance business: 2428

Date of maintenance: 2/23/2024

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: _____

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 9/4/1998 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	24"
B. Periodically saturated soil/bedrock	80"+
C. System separation	56"+
D. Required compliance separation*	36"

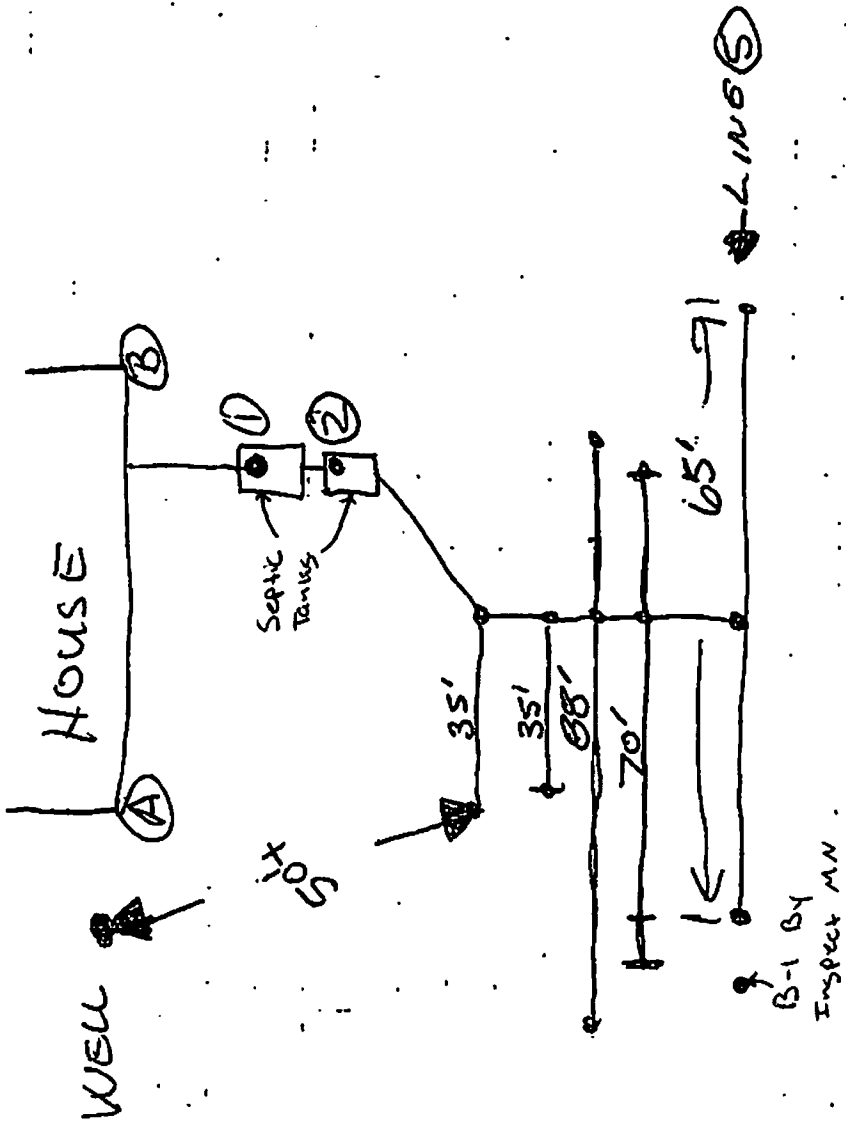
*May be reduced up to 15 percent if allowed by Local Ordinance.

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

Describe verification methods and results:

Verified trench depth - previous soil observations used to satisfy soil requirements.

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.



	A	B
①	65'	24'
②	70'	36'
③	65'	24'

Log Of Soil Borings

Location of Project:		22845 Perkins Avenue N, Scandia, MN 55073	
Borings Made By:		Inspect Minnesota	Date: 4/20/10
Auger Used:		Hand/Bucket	Classification System: USDA
Boring Number:		1	Boring Number:
Surface Elevation of Boring	Same ground surface as inspection cap at west end of last drainfield trench		Surface Elevation of Boring
Depth In Inches	<u>Soils Encountered</u>	Depth In Inches	<u>Soils Encountered</u>
0-18	10YR 3/3 Loamy Fine Sand		
18-34	7.5YR 3/4 Loamy Fine Sand		
34-42	7.5YR 4/4 Silt Loam		
42-54	7.5YR 4/4 Loam		
54-70	7.5YR 4/4 Sandy Silt Loam		
70-80	7.5YR 4/4 Loamy Fine Sand		
80"	Depth To End Of Boring Or Mottled Soils		Depth To End Of Boring Or Mottled Soils
Same	Elevation Of Boring Relative To System		Elevation Of Boring Relative To System
-22"	Depth To Bottom Of System		Depth To Bottom Of System
≥58"	Of Separation		Of Separation
End Of Boring At:	80"	End Of Boring At:	
Mottled Soil Present At:	None	Mottled Soil Present At:	
Standing Water Present At:	None	Standing Water Present At:	

Bottom Of Distribution Medium At: 22 Inches



WASHINGTON COUNTY, MINNESOTA
 Department of Health, Environment,
 and Land Management 612/430-6708

PERMIT NUMBER **NEW SCANDIA TOWNSHIP**
0010990000 SEWAGE PERMIT

Owner : **TERRY/KARLYON BORCK**
22946 PERKINS AVE. N
SCANDIA MN 55073
 Applicant : **TERRY/KARLYON BORCK** **612-433-2766**

DRAINFIELD REPLACEMENT PERMIT	70.00
SEPTIC APPLICATION/SOIL REVIEW	150.00
Total Fees :	220.00
Total Paid :	.00
Total Due :	220.00

PERMISSION IS HEREBY GRANTED

To execute the work specified in this permit on the following described property upon express condition that said persons and their agents, employees and workmen shall conform in all respects to the provisions of the Building Code, and/or Ordinances.
 This permit may be revoked at any time upon the violation of any of the provisions of said code and ordinances.

Project Address : **22946 PERKINS AVE N** **SCANDIA MN 55073**
 Legal Description: **LOT 004 BLOCK 001** **PRAIRIE HOLLOW** **Geo : 12-032-20-21-0007**
 Flow Capacity **500 Gal/Day** **Tank Volume 2000**
 Soil Conditions: **Depth to Restriction 75 Inches** **Pave Rate 16 Min/Inch**

Soil Treatment Type:
Bottom Area 1000 **Bank Depth 12**

- Authorized Work / Special Conditions
- Install individual sewage treatment system as per approved design in area tested and shown on site plan.
 - THIS SYSTEM MUST BE INSTALLED BY A CERTIFIED/LICENSED SEWAGE TREATMENT SYSTEM INSTALLER HOLDING A CURRENT LICENSE WITH THE MINNESOTA POLLUTION CONTROL AGENCY. (A list of installers is available at your request.)
 - Maximum trench depth 40 inches into natural soil.
 - install 220 linear ft. drainfield trench with 24" of rock.

** Permit Expiration Date : **Sewage Treatment : 1999-07-10**

A CERTIFICATE OF OCCUPANCY MUST BE REQUESTED AND ISSUED PRIOR TO USE OR OCCUPANCY OF WORK PERMITTED BY A BUILDING PERMIT.

** This permit shall expire and be null and void if the work authorized by the Building Permit is not commenced within 60 days of the date of issuance or if work is abandoned or suspended for a period of 120 days. Term of the Building Permit is 12 months from date of issue. Term of sewage treatment permit is 12 months from date of issue.

Penalty for violation of any of the provisions of building code: Fine not to exceed five hundred dollars (\$500.00) or imprisonment for not more than ninety (90) days, or both.

Permit Issue Date **1998-07-10** Code Enforcement Officer *Allen B...*

0010-98080

INSPECTION RECORD

0310-3229-0100

BUILDING	DATE	INSP.	COMMENTS
Foundation.....			
Foundation Wall.....			
Plumbing (Groundwork).....			
Heating (Groundwork).....			
Rough Plumbing.....			
Rough Gas Piping.....			
Rough Heating and Ventilation.....			
Framing.....			
Insulation.....			
Fireplace.....			
Chimney.....			
Wallboard or Lath and Plaster.....			
Final Electrical.....			
Final Plumbing.....			
Final Gas Piping.....			
Final Heating and Ventilation.....			
Final Building.....			<i>fine and</i>

SEWAGE TREATMENT SYSTEM	DATE	INSP.	COMMENTS
Installation.....	<i>9-4-98</i>	<i>OK</i>	<i>gravity</i> Tank Size: <i>2-1000</i> Treatment Area: <i>1000 sq ft</i>
As Built.....			Installer: <i>Bauer Trukey</i>

DRIVEWAY	DATE	INSP.	COMMENTS
Access.....			
Installation.....			

NOTES:



SOIL REVIEW/SEPTIC PERMIT APPLICATION

RECEIVED

JUL 07 1998

HELM

Washington County Health, Environment & Land Management

14900 61st Street N., P.O. Box 3803

Stillwater, MN 55082-3803

612/430-6708 or 612/430-6656 FAX 612/430-6730

FEE _____

Receipt # _____

Make checks payable to WASHINGTON COUNTY TREASURER

- \$150 - Application Fee (site review)
- \$150 - New Drainfield System Permit Fee
- \$250 - New Mound System Permit Fee
- \$75 - Additional Review Fee (1 hour minimum)
- \$70 - Replacement Drainfield System Permit Fee
- \$170 - Replacement Mound System Permit Fee
- \$100 base fee, plus \$50 per lot - Subdivision Fee

0010-98080

Legal Description and Parcel Identification Number (especially if this is for a NEW SUBDIVISION OR MINOR SUBDIVISION)
 Lot 4 Block 1 Prairie Hollow 920:12-032-20-21-0007

Applicant Karlon & Terry Boeck Address 22845 Perkins Ave N City Scandia MN State MN Zip 55073 Phone _____

Owner (if different from applicant) as above Address _____ City _____ State _____ Zip 612 433 2785 Phone _____

New Home Existing Home New Business Existing Business Number Of Bedrooms: _____ Gallons Per Day: _____

Check the following fixture(s) which are or will be installed: Garbage Disposal _____ Recreational Bathing Facility: (jacuzzi, hot tub, etc.) _____

New Drainfield System New Mound System Replacement Drainfield System Replacement Mound System Permit Renewal
 Approval Only If this site has been approved, attach copy of approval letter Additional Soil Test Data for Previously Approved Site _____

The following exhibits are required as part of this application and shall be attached hereto: Percolation Test Reports; 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; one (1) copy of the System Design; and one (1) copy of the Final Building Plan. The house and the drainfield areas must be staked. Inaccurate or incomplete information will result in delays in processing.

AGREEMENT: The undersigned hereby makes Application for Permit to Install or Extend Sewage Treatment System herein specified, agreeing that all such work shall be done in strict accordance with ordinances and regulations of the County of Washington, Minnesota. Applicant agrees that the Site Plan, Sketches and Design submitted herewith, and which are reviewed by the Washington County Building Official or his agent, 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 to provide access, at reasonable times, to the Building Official or his agent for the purpose of performing inspections required and 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; ANY DEVIATION FROM THE APPROVED LOCATION WILL VOID THE PERMIT. It shall be the responsibility of the applicant for the permit to notify the Office of the Building Official that the installation is ready for inspection.

In connection with your request for a soil review/septic permit, you are hereby giving us permission to enter upon your property during normal business hours for the purpose of determining the suitability of the location, which may include minor excavation or soil borings.

Karlon O Boeck 7/7/98
 Signature of Applicant (Owner or Builder) Date

THE AREA BELOW IS FOR COUNTY USE ONLY

SITE EVALUATION: BY INSPECTOR OT Goodman DATE 7-7-98

Setbacks:	Required [circle appropriate item(s)]					Actual
	50'	75'	100'	150'		
Well (including adjacent property)						
Wetland, Pond, Lake, Stream, River, or Bluffline						

CONCLUSIONS: Site Suitable: Site Unsuitable: Additional Tests Required: _____ Verify Use: _____ Bedrooms _____

NOTES: Lot Size _____ Year Built _____

EXISTING HOUSE fine sand gravity system
downslope from house on side slope open grassy

An Equal Employment Opportunity Affirmative Action Employer

If You Need Assistance Due to Disability or Language Barrier, Please Call 430-6650 OR 430-6708 (TDD 439-3220)

Logs of Soil Borings

Property Owner: Tenny Boeck Permit No: _____
 Legal Description: Lot 4 Block 1 Prairie Hollow Date: 4-18-98
 Test hole or Borings made by: Howe Landstroom #642
 Method Used: Backhoe _____ Hand Auger Probe _____

Depth, in feet	Boring number <u>1</u> Record soil texture and Color from Munsell Color Book North west corner of proposed area	Depth, in feet	Boring number <u>2</u> Record soil texture and Color from Munsell Color Book North east corner of proposed area
	Ground Surface		Ground Surface
0		0	
1	7" <u>10 YR 4/3 loamy sand</u>	1	10" <u>10 YR 4/3 Sandy loam</u>
2	<u>10 YR 4/5</u>	2	<u>10 YR 4/4 loamy sand</u>
3	<u>Fine Sand</u>	3	10" <u>7.5 YR 4/4 Clayey sand</u>
4		4	
5		5	5" <u>10 YR 4/5 slightly loamy</u>
6		6	<u>Fine Sand</u>
3"		3"	
7		7	

End of boring at 6.25 feet.

Mottled soil:

Observed at _____ feet of depth.

Not present in boring hole .

Standing water table:

Present at _____ feet of depth,

_____ hours after boring.

Not present in boring hole .

Observations and comments:

End of boring at 6.25 feet.

Mottled soil:

Observed at _____ feet of depth.

Not present in boring hole .

Standing water table:

Present at _____ feet of depth,

_____ hours after boring.

Not present in boring hole .

Observations and comments:

Logs of Soil Borings

Property Owner: Terry Beck Permit No: _____
 Legal Description: Lot 4, Block 1 Prairie Hollow Date: 4-18-98
 Test hole or Borings made by: Hans Lindstrom # 642
 Method Used: Backhoe _____ Hand Auger Probe _____

Depth, in feet	Boring number <u>3</u> Record soil texture and Color from Munsell Color Book Ground Surface	Depth, in feet	Boring number <u>4</u> Record soil texture and Color from Munsell Color Book Ground Surface
0 ---		0 ---	
1 ---	10 YR 4/2 loam	1 ---	10 YR 4/3 loamy sand
2 ---	10 YR 4/4 sandy loam	2 ---	10 YR 4/4 slightly loamy sand
3 ---		3 ---	
4 ---		4 ---	
5 ---		5 ---	
6 ---	10 YR 4/4 sandy clay	6 ---	
7 ---		7 ---	

End of boring at 6.25 feet.
Mottled soil:
 Observed at _____ feet of depth.
 Not present in boring hole .
Standing water table:
 Present at _____ feet of depth,
 _____ hours after boring.
 Not present in boring hole .
 Observations and comments:

End of boring at 6.25 feet.
Mottled soil:
 Observed at _____ feet of depth.
 Not present in boring hole .
Standing water table:
 Present at _____ feet of depth,
 _____ hours after boring.
 Not present in boring hole .
 Observations and comments:



AS-BUILT REPORT INDIVIDUAL SEWAGE TREATMENT SYSTEM



Washington County Health, Environment & Land Management
14900 61ST ST N, PO BOX 3803, STILLWATER, MN 55082-3803
612/430-6708 or 612/430-6656 FAX 612/430-6730

Legal Description or Complete Street Address		City or Township		
TERRY ROECK		22845 PERKINSAVE SCANDIA MN 55073		
Owner Name	Mail Address	City	State	Zip
SAME				
Installer	Mail Address	City	State	Zip
Bauer Trucking 17751 63rd ave N Maple Grove, MN. 55311				
Septic Tank Information		Liquid Capacity:		
Tank Manufacturer: Eull's Manufacturing		2 - 1000 GAL		

PUMP CHAMBER (if installed)			
Tank Manufacturer:	Liquid Capacity:	Horsepower of Pump:	Type of Warning Device:
Pump Discharge in Gallons Per Minute:	at	Feet of	Number of Gallons Pumped Per Cycle:
Head			

DRAINFIELD TRENCH		BED OR MOUND	
Width: 36"	Length of Each Trench: 35' 35' 88' 70' 65'	Rock Bed Length:	Width: Area:
Depth of Trench Bottom from Finished Grade: 18" — 30" LINES		Bed Depth from Grade:	
Method of Distribution: <input type="checkbox"/> Pressure <input type="checkbox"/> Distribution Box <input checked="" type="checkbox"/> Drop Box		MOUND: Upslope Sand Base Depth: Downslope Sand Base Depth:	
Depth of Rock Under Distribution Pipe: 12" LINES 24"		Depth of Rock Under Pipe:	
Square Footage of Tested Area Used: 1000		PRESSURE DISTRIBUTION SYSTEM:	
Trench Bottom Square Footage Required: 1000	Area As Built:	Lateral Inside Diameter:	Length: Perforation Size:
		Spacing:	Number: Perforation Spacing:

Complete site plan on attached sheet. On the site plan, include location of the following items.
Structures, septic tank, pump chamber, line from house to tank treatment system, distribution lines, distribution or drop boxes, well, and driveway. Show all distances applicable to the sewage treatment system (distance from structure to tank, tank to treatment system, distance between distribution lines, length of distribution lines, and distance between well and sewage treatment system). Indicate NORTH on the site plan and the scale of the plan.

I hereby certify that the system at the above referenced address was installed according to the Washington County Individual Sewage Treatment System Ordinance requirements.

Signed: Robert Bauer MPCA License #: 99 Dated: 10-22-98

ASBUILT.FRM:DC 2/97

WASHINGTON COUNTY SEPTIC PERMIT NUMBER 00 1098080

AN EQUAL EMPLOYMENT OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER
IF YOU NEED ASSISTANCE DUE TO DISABILITY OR LANGUAGE BARRIER, PLEASE CALL 430-6708 (TDD 439-3220).