

ZIERKE SOIL TESTING

David Schultz
23964 Itasca Ave N
Forest Lake, MN 55025

6/26/2019

Dear David Schultz,

At your request, I have conducted a septic inspection to determine the compliance status of your 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 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. Proper care and maintenance of the system can prolong lifespan – see <https://septic.umn.edu/septic-system-owners> for more information. A copy of this report will be filed with your local unit of government for their records.

Sincerely,



Benjamin Zierke

ADDRESS:
28587 Jeffrey Ave
Chisago City, MN 55013

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



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

For local tracking purposes:

System Status

System status on date (mm/dd/yyyy): 6/26/2019

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: _____

Property address: 23964 Itasca Ave N Forest Lake, MN 55025 Reason for inspection: Sale

Property owner: David Schultz Owner's phone: 612-282-8451

or

Owner's representative: _____ Representative phone: _____

Local regulatory authority: Washington County Regulatory authority phone: 651-430-6655

Brief system description: Two 1000 gallon septic tanks, 1000 gallon lift station, mound dispersal system

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: Benjamin Zierke Certification number: C9594

Business name: Zierke Soil Testing License number: L119

Inspector signature: Phone number: 651-249-1346

Necessary or Locally Required Attachments

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

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:

Homeowner has not had any issues with the system. No signs of past leakage or ponding during site visit 6/24/2019.

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 checked="" type="checkbox"/> No
Sewage tank(s) leak below their designed operating depth. If yes, which sewage tank(s) leaks:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

Comments/Explanation:

Tanks pumped and OK'ed by Olson's. See attached tank integrity form.

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: 6/19/2002 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: Yes No

Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.

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.*

"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) Yes No

Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.

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	101.2'
B. Periodically saturated soil/bedrock	98.0'
C. System separation	3.2'
D. Required compliance separation*	3.0'

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

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

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: _____ Yes No
Have the Operating Permit requirements been met?

b. Is the required nitrogen BMP in place and properly functioning? Yes 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.

Logs of Soil Borings

Location of Project: 23964 Itasca Ave N Forest Lake, MN 55025

Borings Made by Ben Zierke

Date: 6/24/2019

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-----	-----
0-10"	10YR 3/3 fine sandy loam		
10-28"	10YR 5/4 fine sandy loam, redox present below 24"		

End of boring at 2.3 feet

Standing water table:

Present at _____ feet of depth _____ Hours after boring

Standing water not present in hole

Mottled Soil:

Observed at 2 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

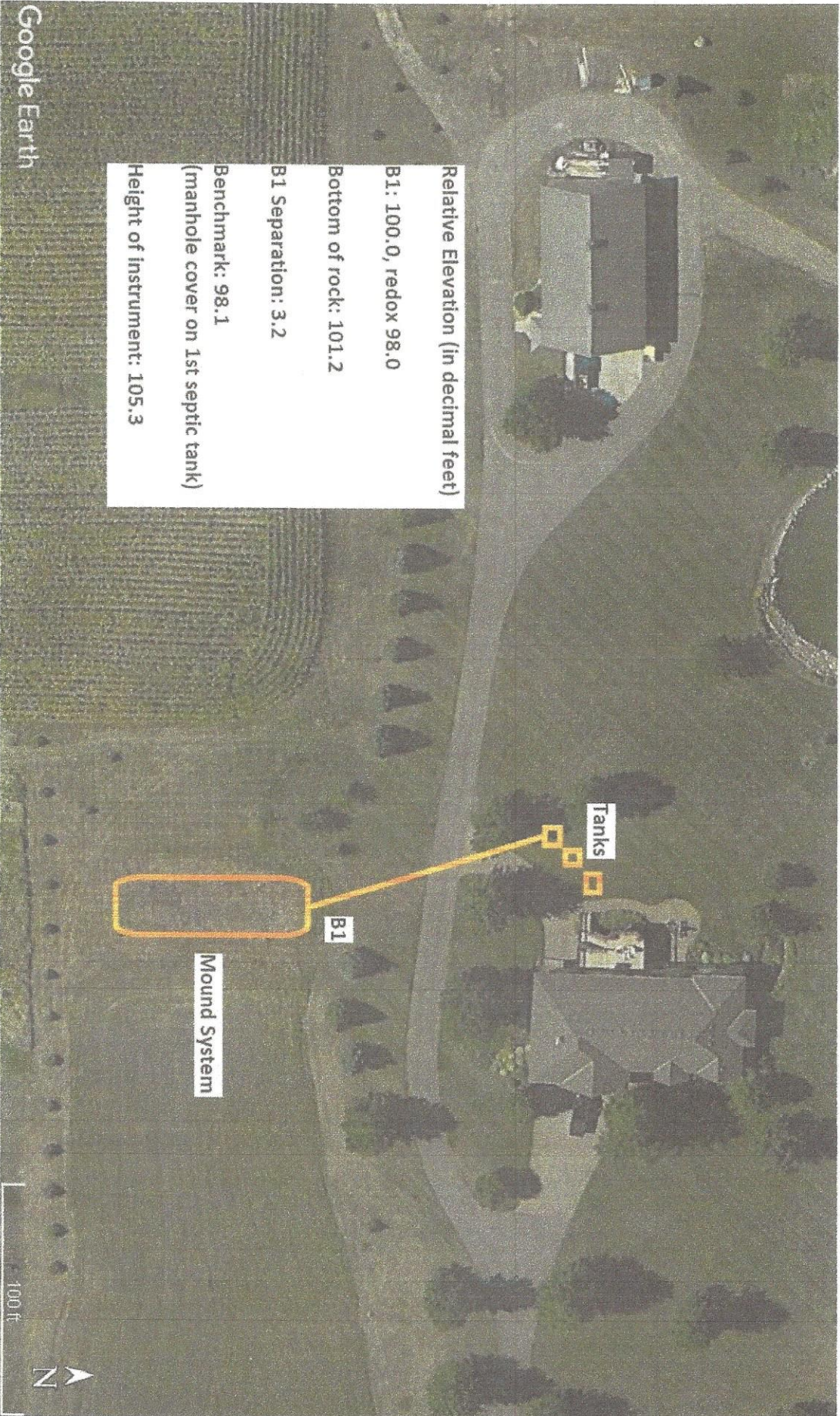
Standing water not present in hole

Mottled Soil:

Observed at _____ feet of depth

Mottled soil not present in bore hole

Comments:



Relative Elevation (in decimal feet)
B1: 100.0, redox 98.0
Bottom of rock: 101.2
B1 Separation: 3.2
Benchmark: 98.1
(manhole cover on 1st septic tank)
Height of instrument: 105.3

Tanks

B1

Mound System

100 ft



Google Earth

Service Order

Service Order #: 91834

Olson's Sewer Service, Inc. 17638 Lyons Street N.E. Forest Lake, MN 55025 651-464-2082

Date: 6/25/2019 Preferred Time: 7:00 AM Road Restrictions (Tons) **IMPORTANT NOTE**

Addr: 23964 Itasca Avenue North

Ben called & will not be there; did his part on Monday so JH or BD need to pump this site.

Name: David Schultz H: (651) 464-1407
 City: Forest Lake, MN 55025 C1: (612) 282-8451
 Cty: Washington
 Twp:

Driving Dir 2-4-03 - NO alarm went off here. Dave's cell # 612-282-8451 (He is the son; parents out of town. Dad's name is also David.) Work # is son's h

	PreT	T1	T1C	T2	T3	LS
Tank Type Pre-cast						
Treatment Type Mound System						
Treatment Area	Sizes: 1000			1000		1000
Dist to Tank 1 100 Ft	Depth to MH: 3" C			3" C		Grade
Dist to Lift Tank 100 Ft	Riser Feet: 1.5			1		1.5
	LS Outlet to Bottom:					

	PreT	T1	T1C	T2	T3	LS
Water Meter						
Effluent Filter N						
Two Techs						
City Sewer N						
Install Date 6/13/2002						
Installer Mitch Perry						
As Built						
Cleanout						
Power Disconnect at Lift						
Looped						
# Bedrooms 4						
Pump Breaker						
Baseline Equal Dist Hgt						
	1	4				
	2	5				
	3	6				
Covers Secure:	Y			Y		Y
Infiltration ↑ OL:	N			N		N
Infiltration ↓ OL:	N			N		N
Scum Depth:	10			0		0
Sludge Depth:	10			5		4
Inlet Baffle Intact:	Y			Y		
Outlet Baffle Intact:	Y			Y		
Pump Function:						Y
Alarm Function:						Y
Filter Alarm Function:						

Lift Pump 34gpm@20' of head W/150 gallons per dose

Service Type	Last Service Date	Mobilize Time	At Site Time	Complete Time	Disposal Time	Leave Disposal Time
1 Lift Station Maintenance		10:15 AM	11:05 AM	12:25 PM		
2 Maintenance Pumping	2/5/2003					
3 LUG Permit						

Time Dosing	Iron Filter	S&E Quality	Eq Dist Hgt 1	Readings	Previous	Functioning
Lint Filter	Sump Pump	PH Reading	2	Event/Cycle Ctr		
Switch Tree	Ejector Pump	Non Dom Wastes	3	Elapsed Time		
Event Counter	Mgmt Plan	TA Visual Insp	4	Time Dosing		
Garbage Disp.	Monitoring		5	Water Meter		
Water Softener	Irrigation		6			

Dump Site	Gal Pumped	CSR NS	Garden Hose	Y	Chemicals	Reminder	6/25/2022
Metro	2530	CBYD/Date				Lift Station Last Service	
Total:	2530					Vehicle	09
						Service Person	BD
						Inv #	89405
						Follow Up	

Service Order Dave will have manhole covers exposed for us - we are NOT meeting Ben Zierke so need JH or BD to do this. Customer never called Ben to confirm this date/time. Covers ARE dug open.

Site Comments

Price Quoted \$520.00 plus \$17.00 permit
 Post Pumped tanks.
 Comments

Property address: 23964 Hasca Ave North

Inspector initials/Date: _____
(mm/dd/yyyy)

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