ZIERKE SOIL TESTING

Steve Bergeron
16315 209th St N
Scandia, MN 55073

9/24/2020

Dear Steve Bergeron,

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. 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

Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

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): 9/24/2020

☒ **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: 16315 209th St N Scandia, MN 55073
Reason for inspection: Sale
Property owner: Steve Bergeron
Owner's phone: 651-248-6808
or
Owner's representative:
Representative phone:
Local regulatory authority: Washington County
Regulatory authority phone: 651-430-6655
Brief system description: (2) 1000 gallon pre-cast septic tanks, gravity drop box rock trench drainfield
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): County Permit w/soil information

Property address: 16315 209th St N Scandia, MN 55073 Inspector initials/Date: BZ | 9/24/2020 (mm/dd/yyyy)

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.

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)*

Comments/Explanation:

Steve has not had any issues with the system. No signs of ponding or seepage observed during site visit 9/21/2020.

2. Tank Integrity – Compliance component #2 of 5

Compliance criteria:	
System consists of a seepage pit, cesspool, drywell, or leaching pit. *Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.*	☐ Yes ☒ No
Sewage tank(s) leak below their designed operating depth. If yes, which sewage tank(s) leaks:	☐ Yes ☒ No

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

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)*

Comments/Explanation:

Present for pumping by Smilies Sewer 9/21/2020. Tanks watertight and baffles in place.

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:

Property address: 16315 209th St N Scandia, MN 55073 Inspector initials/Date: BZ | 9/25/2020 (mm/dd/yyyy)

4. Soil Separation – Compliance component #4 of 5

Date of installation: 4/10/2000 (mm/dd/yyyy) ☐ Unknown

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: Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No
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: Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*	☒ Yes ☐ No
"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) Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No

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

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:

See attached design boring logs and inspector notes.

Indicate depths or elevations

A. Bottom of distribution media	36"
B. Periodically saturated soil/bedrock	72"
C. System separation	36"
D. Required compliance separation*	36"

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

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

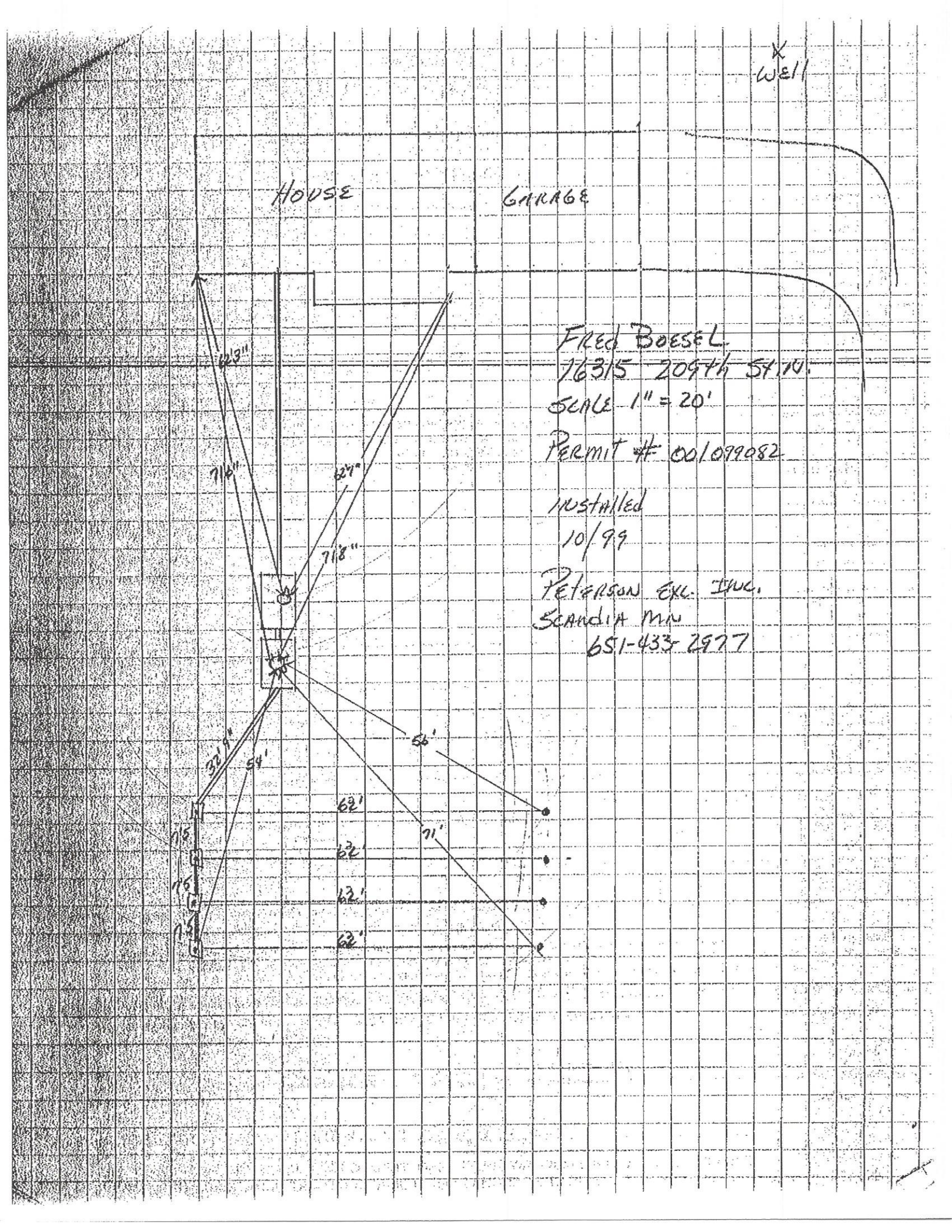
If the answer to both questions is "no", this section does not need to be completed.

Compliance criteria

a. Operating Permit number: _____ 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.

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.*


WELL
HOUSE
GARAGE
62 3/8"
7 1/8"
62"
7 1/8"
54'
32' 8"
54'
62'
62'
62'
62'
71'
7 5/8
7 5/8
7 5/8
FRED BOESEL
16315 209th ST. N.
SCALE 1" = 20'
PERMIT # 00/099082
INSTALLED
10/99
PETERSON EXC. INC.
SCANDIA MN
651-433-2977

SOIL REVIEW/SEPTIC PERMIT APPLICATION

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_____

GEO 1903219220004 outlot B: 1903219220008 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
$25 - 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 99082

Legal Description and Parcel Identification Number (especially if this is for a NEW SUBDIVISION OR MINOR SUBDIVISION)
Part of N.W ¼ of N.W ¼ of Sec 19 Twsp. 32 Range 19 R-19-032-19-220004
Outlot B Valley View Balfour R-19-032-19-22-0008

Applicant	Address	City	State	Zip	Phone
Fred E. Boesel	21060 St. Croix Trail	Scandia	Mn	55073	433-2653

Owner (if different from applicant)	Address	City	State	Zip	Phone

New Home ✓ Existing Home ___ New Business ___ Existing Business ___ | Number Of Bedrooms: 3 | 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.

Fred E. Boesel — Signature of Applicant (Owner or Builder)

9-14-99 — Date

THE AREA BELOW IS FOR COUNTY USE ONLY

SITE EVALUATION: BY INSPECTOR [illegible] DATE 9-15-99

Setbacks: 21 MPI

	Required (circle appropriate item(s))					Actual
Well (including adjacent property)	50'	75'	100'	150'		
Wetland, Pond, Lake, Stream, River, or Bluffline	20'	40'	75'	100'	150'	

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

NOTES: Lot Size _____ Year Built _____

Lot 1 16277 address 4 p of 209 K

NEW HOUSE open field high ground no mottles to 72" OK to issue

An Equal Employment Opportunity Affirmative Action Employer
If You Need Assistance Due to Disability or Language Barrier, Please Call 430-6656 OR 430-6708 (TDD 439-3220)

SEPTFORM.DOC

LOGS OF SOIL BORINGS

Location of Project Fred Boesel prop., 6.5 acres, Sec. 19, New Scandia Twp., Washington Co.
Borings Made by Chris Zierke Date: 7/14/99
Hand bucket auger used for borings; USDA – SCS Soil Classification used.

Boring Number 1

Depth, In Feet	
0	
0-6"	Dark-brown loam(10YR-3/3)
6-20"	Yellowish-brown silt loam(10YR-5/6)
20-36"	Strong-brown sandy loam(7.5YR-4/6), pebbles common
	obstruction

End of boring at 3 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:

Boring Number 2

Depth, In Feet	
0	
0-10"	Dark-brown loam
10-42"	Yellowish-brown silt loam
42-66"	Strong-brown sandy loam, pebbles common
	obstruction

End of boring at 5.5 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:

Boring Number 3

Depth, In Feet	
0	
0-6"	Dark-brown loam
6-30"	Yellowish-brown silt loam
30-72"	Strong-brown sandy loam pebbles common
	obstruction

End of boring at 6 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:

Boring Number 4

Depth, In Feet	
0	
0-8"	Dark-brown loam
8-18"	Yellowish-brown silt loam
18-78"	Strong-brown sandy loam, pebbles common

End of boring at 6.5 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: