

ZIERKE SOIL TESTING

Dillon Dempsey
15676 220th St N
Scandia, MN 55073

5/21/2021

Dear Dillon Dempsey,

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 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

Instructions: Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached supporting documentation – additional local requirements may also apply. Further information can be found here:

<https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf>

Inspector must submit completed form to Local Governmental Unit (LGU) and system owner within 15 days of final determination of compliance or noncompliance.

Property information

Local tracking number: _____

Parcel ID# or Sec/Twp/Range: 1203220340002 Local regulatory authority: Washington County

Property address: 15676 220th St N Scandia, MN 55073

Owner/representative: Dillon Dempsey Owner's phone: 612-209-8254

Brief system description: Two pre-cast 1000 gallon septic tanks, 1000 gallon lift station, pressure trenches

System status

System status on date (mm/dd/yyyy): 5/21/2021

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

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.

Systems failing to protect ground water must be upgraded, replaced, or use discontinued within the time required by local ordinance.

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: 

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
- Locally required forms
- Tank Integrity Assessment
- Operating Permit
- Other information (list):

As built sketch

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.

Describe verification methods and results:

No signs of backup or surface discharge observed during site visit 5/18/2021. Homeowner did not report any issues with the system.

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?	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
Sewage tank(s) leak below their designed operating depth?	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> 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 Olsons Sewer Service. Tanks watertight and baffles in place.

Attached supporting documentation:

- Pumped at time of inspection
- Name of maintenance business: Olsons
- License number of maintenance business: 216
- Date of maintenance: 5/18/2021
- 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 6/3/1994 Unknown
(mm/dd/yyyy)

Shoreland/Wellhead protection/Food beverage lodging? Yes No

Attached supporting documentation:

- Soil observation logs completed for the report (Attach)
 Two previous verifications of required vertical separation (Attach)
 Not applicable (No soil treatment area)

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 (Advanced Inspector License required) Yes No*

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

Indicate depths or elevations

A. Bottom of distribution media	96.6'
B. Periodically saturated soil/bedrock	94.5'+
C. System separation	2.1'+
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:

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.



APPLICATION FOR PERMIT TO INSTALL SEWAGE TREATMENT SYSTEM

WASHINGTON COUNTY PUBLIC HEALTH
14900 - 61ST STREET N., P.O. BOX 6
STILLWATER, MN 55082-0006
612/430-8749

SYS. UPD RECEIVED DEC 06 1993

FOR COUNTY USE ONLY

Application Number **94-93269**

TEST + DESIGN

Application Fee - \$100.00 PAID
Permit Fee - \$100.00
Mound Permit - \$150.00

Additional Reviews - \$25.00/hr. (1 hr. min.)
Subdivision Fee - \$100.00 + \$50.00/lot

Make checks payable to WASHINGTON COUNTY TREASURER

Legal Description and Parcel Identification Number Pt SE 1/4 - SW 1/4 12/30/20 Gw: 12-032-20-34-2002
15676 220TH STR. NO. NEW SCANDIA TWP. 9102-2710

Applicant 1 Mailing Address 15676 220TH STR. NO. SCANDIA MN. 55073 City SCANDIA State MN Zip 55073 Phone 433-5849

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

Use of Building: EXIST. HOME Number of Bedrooms or Gallons Per Day: 450 GPD POTENTIAL

Check the following fixtures which are or will be installed:
Garbage Disposal NO Recreational Bathing Facility (Jacuzzi, hot tub, etc.) NO

Type of Work: New Alteration Repair Approval Only

Has site previously been reviewed by Washington County? No Yes
(If previously approved, attach letter of approval)

The following exhibits are required as 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; 2 copies of the System Design; and 1 copy of the Final Building Plan. The house and the drainfield areas must be staked. Improper or inadequate test 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.

James P. Krasak
W. Weaver
Signature of Applicant (This form must be signed.) 2/5/93 Date

Equal Employment Opportunity/Affirmative Action

FOR OFFICE USE ONLY:

Reviews: Planner _____ Inspector P. Gay Date 12-13-93

Site Evaluation: Soil Boring Evaluation: Depth of Water Table, Seasonal Water Table (Moist Soil), Impervious Layer or Bedrock:

Setbacks:	Percolation Test Evaluation:					Actual
	Required (circle)	Required (circle)	Required (circle)	Required (circle)	Required (circle)	
Well (including adjacent property)	50'	75'	100'	150'	150'	55' to tanks
Wetland, Pond, Lake, Stream, River, or Bluffline	20'	40'	75'	100'	150'	

Conclusions: Site Suitable: _____ Site Unsuitable: _____ Additional Tests Required: _____ Verify Use: _____

NOTES: Lot Size 1.50 acres (208x315) Built 1971 Septic Ver Denied on 94-93231

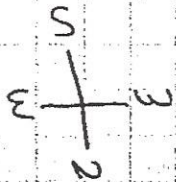
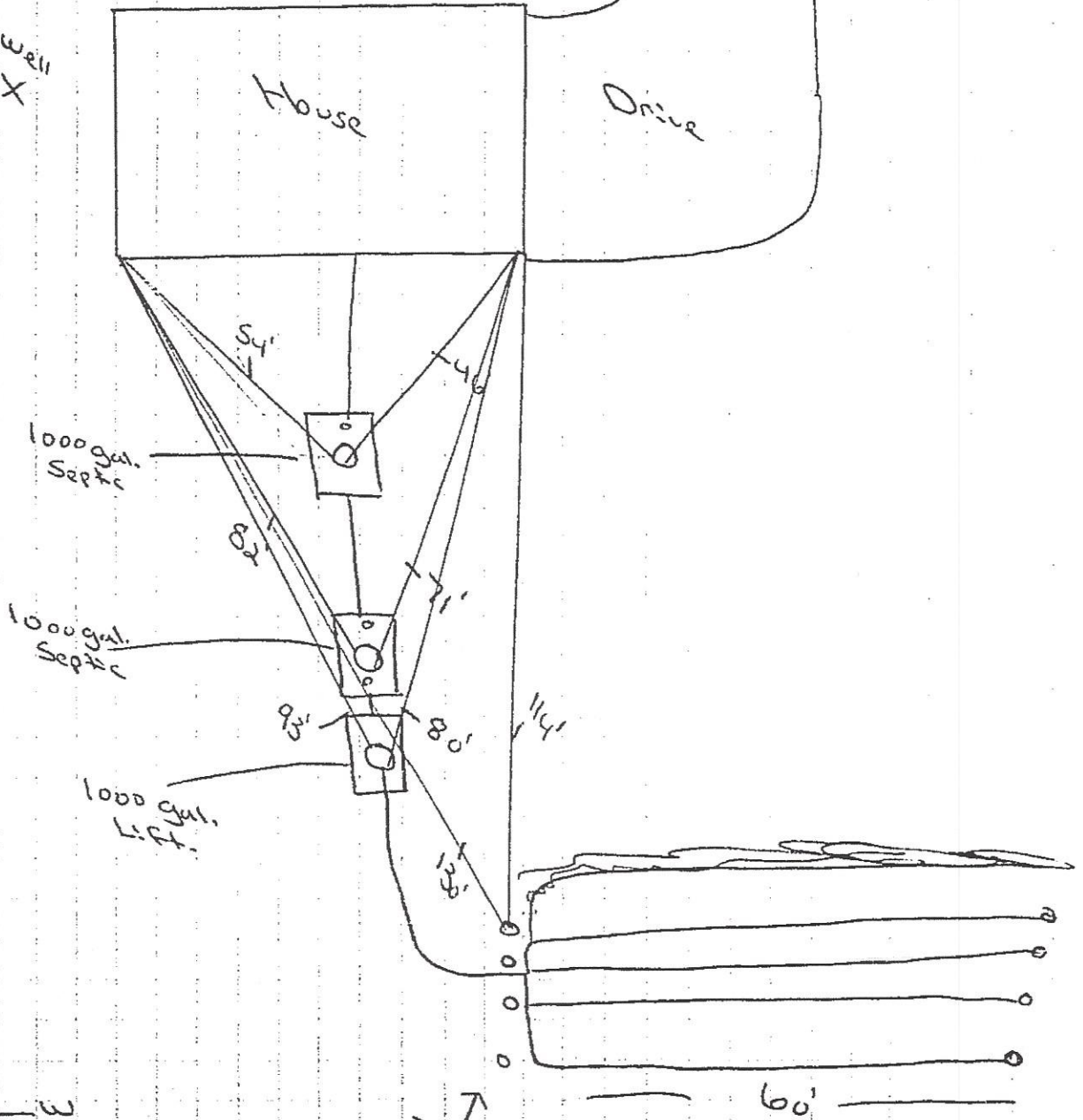
30" silt-clay loam over sandy loam
No Depth limiter

220th St.

Well X

House

Drive



↑
Inspection
pipes

60'
Drainwell 4 lines
2 60' 2" PVC
Pressure lines

LOGS OF SOIL BORINGS

Location of Project Samantha Bristol, small parcel, Sec. 12, New Scandia, Washington Co.
Borings Made by Chris Zierke Date: 8/21/08
Hand bucket auger used for borings; USDA - SCS Soil Classification used.

Depth, In Feet	Boring Number 1
0	
0-8"	Dark-brown sandy loam(10YR-3/3)
8-18"	Dark yellowish-brown sandy loam(10YR-4/4)
18-28"	Yellowish-brown silt loam(10YR-5/4)
28-36"	Strong-brown loam(7.5YR-4/6)
36-66"	Strong-brown sandy loam(7.5YR-4/6)

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:

Depth, In Feet	Boring Number 2
0	

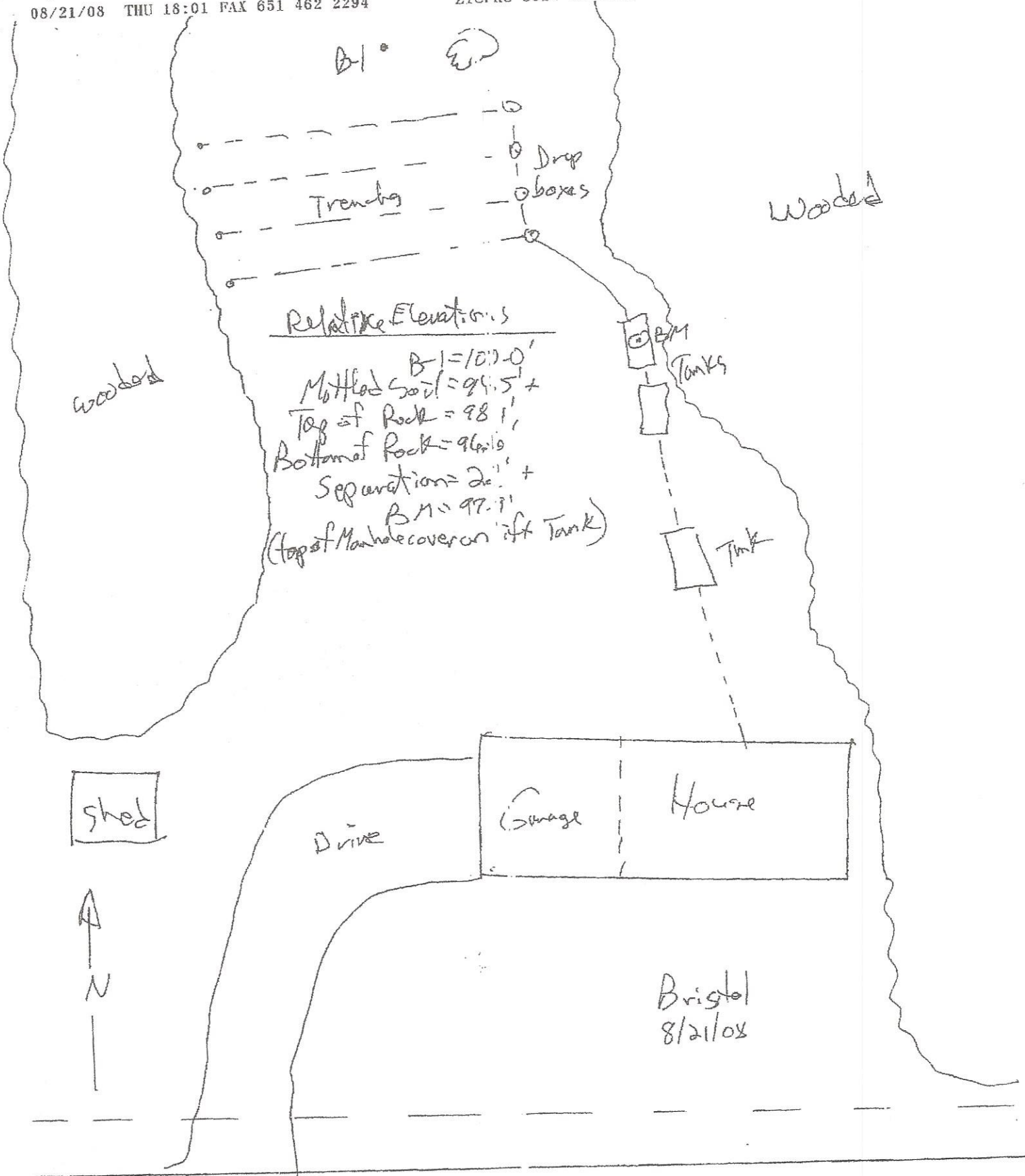
End of boring at feet.
Standing water table:
Present at feet of depth, hours after boring.
Standing water not present in hole .
Mottled Soil:
Observed at feet of depth.
Mottled soil not present in bore hole .
Comments:

Depth, In Feet	Boring Number 3
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:

Depth, In Feet	Boring Number 4
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:





EARTH SCIENCE TESTING™
SOILS INFORMATION COMPANY:

SOIL BORINGS

LAURIE ROSSELL.....NEW SCANDIA

BORING NO.1

0"-12" DARK BROWN FINE SANDY LOAM
12"-18" BROWN FINE SANDY LOAM
18"-36" LIGHT BROWN FINE SANDY CLAY LOAM
36"-54" LIGHT BROWN FINE SANDY LOAM
54"-6'0" REDDISH-BROWN FINE SANDY CLAY LOAM
6'0" END BORING

BORING NO.2

0"-7" DARK BROWN FINE SANDY LOAM
7"-13" BROWN FINE SANDY LOAM
13"-47" REDDISH-BROWN FINE SANDY CLAY LOAM
47"-7'0" REDDISH-BROWN FINE SANDY LOAM
7'0"-8'0" REDDISH-BROWN FINE SANDY CLAY LOAM
8'0" END BORING

BORING NO.3

0"-6" DARK BROWN FINE SANDY LOAM
6"-11" LIGHT BROWN FINE SANDY LOAM
11"-36" LIGHT BROWN FINE SANDY CLAY LOAM
36"-57" LIGHT BROWN FINE SANDY LOAM
57"-8'0" REDDISH-BROWN FINE SANDY LOAM
8'0" END BORING

BORING NO.4

0"-7" DARK BROWN FINE SANDY LOAM
7"-16" BROWN FINE SANDY LOAM
16"-36" LIGHT BROWN FINE SANDY CLAY LOAM
36"-56" LIGHT BROWN FINE SANDY LOAM
56"-8'0" REDDISH-BROWN FINE SANDY CLAY LOAM / SAND MIXED
8'0" END BORING