

Onsite Sewage Treatment Program Soil Boring Log



Client/ Address: _____ Legal Description/GPS: _____ Date: _____

Soil Parent Material(s): Till Outwash Lacustrine Alluvium Loess Organic Matter Bedrock
(circle all that apply)

Landscape Position: Summit Shoulder Back/Side Slope Foot Slope Toe Slope Slope Shape:
(circle one)

Vegetation: _____ Slope (%): _____

Weather conditions/Time of Day: _____ Elevation: _____

Depth (in)	Texture	Coarse Frag %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Saturated Soil Indicator(s) (see back)	Shape	I----- Structure-----I	Grade	Consistence
0-7	TOP SOIL		10YR-3/3		Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid	
7-27	SAND		10YR-5/4		Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid	
27-40	CLAY FILL		7.5YR-6/3		Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid	
Redox @ 36" 2.5YR-7/6					Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid	
					Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid	
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Comments/Certified Statement: I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

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Depth (in)	Texture	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Saturated Soil Indicator(s) (see back)	Shape	Grade	Consistence
0-10	TOP SOIL	10YR 3/2		Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid
10-29	SAND	10YR 5/6		Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid
29-56	CLAY FILL	2.5Y 4/3		Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid
2600x ø 41" 2.5Y n/6/8				Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid
				Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid
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BUILDING PERMIT City of Lake Elmo

Bus: 777-5510

(PLEASE PRESS HARD)

No. 92-188-A

Site Address 8311 Windbreak Ct. Owner Joel Barber Phone 779-6156

Contractor Croftland Etc. Address 10003 Maple Phone 439-7345

Owner's Address 8311 Windbreak Legal Description of Site Lot 25 OACRE 3rd Add

Zone _____ Flood Plain: NA, FW, FF _____

Set Backs _____ Lot Size _____ Fire Zone _____
Front R. Side Back L. Side

Type of Construction _____ Size of Bldg. _____ Square Feet _____
Frame Brick Masonry Other

Type of Construction _____ No. of Stories _____ Starting Date _____

OFFICE USE ONLY

Building & Remodeling

- 1. Alteration _____
- 2. Remodel _____
- 3. Addition _____
- 4. New Const. _____
- 5. Roof & Siding _____
- 6. Insulation _____
- 7. Garage _____
- 8. Swimming Pool _____
- 9. Decks & Porches _____
- 10. Sheds _____
- 11. Curb Cut & Driveway
& Parking Lot _____
- 12. Other _____

Estimated Cost \$ _____
(including labor)

Plumbing, Heating, A.C., Venting & Mechanical

- A. Repair _____
- B. Alter _____
- C. New _____

- 1. Type of heat _____
- 2. No. Bathrooms _____
- 3. Other _____

\$ _____ \$ _____
 Plumbing Heating

\$ _____ \$ _____
 Venting Mechanical

\$ _____ \$ _____
 Sewer Water

- S.A.C. \$ _____
- Sewer-Septic \$ 25.50
- Connection No. _____
- W.A.C. \$ _____
- Plumbing fee \$ _____
- Surcharge \$ _____
- Heating fee \$ _____
- Surcharge \$ _____
- Vent, A.C. fee \$ _____
- Surcharge \$ _____
- Bldg. \$ _____
- Surcharge \$ _____
- Investigation fee \$ _____
- Other \$ _____

Plan Review \$ _____
 Surcharge Total \$.50

TOTAL PERMIT FEES \$ 25.50
 Receipt No. CK # 2425
 Date 8-17-92

EXPLANATION OF WORK TO BE DONE:

new on-site septic system
573 sq ft. on pd.

Depth/Dimension of Trench: _____
 Cost of Sewer and Water Hookup \$ _____

This permit is granted on the condition that all ORDINANCES will be respected and that the above information is true and correct. This permit expires after 1 year, but all exterior appearances must be reasonably complete within 90 days.

Ken Seefelt _____ Date Aug 17, 92
 Applicant/Contractor

Jim McNamara _____ Date 8-17-92
 Building Official

 Planning Director Date

MEMBER



Professional Building Inspections and Environmental Services

Jack E. Gill, CBO, President

- State of Minnesota, Certified Building Inspector, #0246 + Certified Accesibility Specialist #1966
- Council of American Building Officials, Certified Building Official #761
- International Conference of Building Officials, Certified Building Inspector #30795
- State of California, Registered Construction and Civil Engineering Inspector #2887
- Minnesota Pollution Control Agency, Registered Sewage Treatment System Designer I & Inspector #1745
- State of Minnesota, Licensed Asbestos Inspector and Asbestos Management Planner
- State of Minnesota, Licensed Lead Inspector and Lead Risk Assessor
- State of Minnesota, Certified Commercial Energy Auditor
- Arbitrator, American Arbitration Association

April 23, 2002

Ms. Lucia Borgen
Edina Realty
2966 White Bear Ave.
Maplewood, MN 55109

Subject: Septic System at 8311 Windbreak Trail, Lake Elmo - O'Brien

Dear Lucia:

Please find attached septic system report for subject property. Water test results will be forwarded when received. Please contact me should you have any questions.

I am mailing a copy of the septic report to your client along with an invoice for payment which is due May 6, 2002.

Thank you very much for allowing me to do this work.

Sincerely,

A handwritten signature in black ink that reads 'Jack E. Gill'. The signature is written in a cursive, slightly slanted style.

Jack E. Gill

Copies: John & Anne O'Brien - Seller's
Mr. Jim McNamara - City of Lake Elmo

**PROFESSIONAL BUILDING INSPECTIONS
AND ENVIRONMENTAL SERVICES**

MINNESOTA POLLUTION CONTROL AGENCY LICENSE NUMBER 604

Mahtomedi, MN
(651) 426-0880

Jack E. Gill - MPCA Certified Designer I
and Inspector #1745

ON-SITE SEPTIC SYSTEM COMPLIANCE REPORT

Date: April 21, 2002

Time: 11:45 AM

Weather: Cool

Address/Location: 8311 Windbreak Trail, Lake Elmo, MN 55042

Invoice To: John & Anne O'Brien

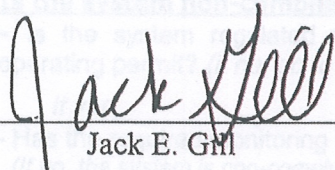
Terms: Date Due 5/6/02

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this septic system, have reviewed the history of the system with the owner, Anne O'Brien and have reviewed the original design/permit records on file at the City of Lake Elmo. This system consists of a solid septic tank and a drainfield. I had performed an earlier inspection on this septic system in 1998. As mentioned in my earlier report, this system was constructed partially on fill. It should be noted that when this system was constructed more than .50 percent of the drainfield was "plugged off" for future use. I would advise that in approximately 2 years that the "plugged off" section of the drainfield be un-plugged.

Predicated on my inspection of the system, my review of the history of the system with the owner and my review of the City of Lake Elmo design/permit records, it is my opinion that this system presently meets MPCA minimum compliance inspection requirements. Minimum compliance inspection requirements include only verification that the septic system has a water tight septic tank and pump tank, the required drainfield separation to saturated soils, no backup of sewage into the dwelling and no discharge of sewage/effluent onto the ground surface or surface water (lakes, streams, etc.). Sewage back-up verification is limited to observing the floor drain area and/or the information supplied by the last occupants of the dwelling prior to inspection. PBI cannot guarantee that the information given to them relative to back-ups is accurate.

Please contact me should you have any questions.



Jack E. Gill

NOTE: This report is not complete without the inclusion/attachment of the respective "MPCA Septic System Compliance Inspection" form which consists of two separate pages. PBI Environmental Services has not been retained to warrant, guarantee, or certify the proper functioning of the system for any period of time in the future. Because of the numerous factors (usage, maintenance, tank pumping, soil characteristics, previous failures, etc.) which may affect the proper operation of a septic system, as well as the inability of our company to supervise or monitor the use or maintenance of the system, this report shall not be construed as a warranty by our company that the system will function properly for any particular buyer. PBI Environmental Services hereby **DISCLAIMS ANY WARRANTY**, either expressed or implied, arising from the inspection of the septic system or this report. We are also not ascertaining any affect the system is having on the groundwater. **This report/inspection is being performed for only the seller of the property, there is no contract between PBI and any other party except the seller.**

Property Owner(s) O'Brien Fire No./ Parcel No. _____

System Components (Please describe the system components and attach site sketch showing system location):

5' solid septic tank + drainfield

What methods were used to make the determinations for the compliance inspection? (Note: No standard protocol exists. The following list is not exhaustive, or in sequential order nor indicates which combinations may necessary to make a determination)

- | | | |
|---|--|--|
| <p>Watertight tank(s)</p> <p><input checked="" type="checkbox"/> Probed tank bottom</p> <p><input type="checkbox"/> Observed low liquid level</p> <p><input checked="" type="checkbox"/> Examined const. records</p> <p><input type="checkbox"/> Examined empty (pumped) tank</p> <p><input type="checkbox"/> Probed outside tank for "black soil"</p> <p><input type="checkbox"/> Pressure/vacuum check</p> <p><input type="checkbox"/> Other _____</p> | <p>Hydraulic Functioning</p> <p><input type="checkbox"/> Searched for surface outlet</p> <p><input type="checkbox"/> Performed hydraulic test</p> <p><input checked="" type="checkbox"/> Searched for seeping in yard</p> <p><input type="checkbox"/> Checked for back-up in home</p> <p><input type="checkbox"/> Excessive ponding in soil system/D-boxes</p> <p><input checked="" type="checkbox"/> Homeowner testimony</p> <p><input type="checkbox"/> Examined for surging in tank</p> <p><input type="checkbox"/> "Black soil" above soil system</p> <p><input type="checkbox"/> Other _____</p> | <p>Vertical Separation Distance</p> <p><input type="checkbox"/> Conducted soil borings</p> <p>Depth to limiting layer _____</p> <p>Depth to system bottom _____</p> <p><input type="checkbox"/> Examined records</p> <p><input type="checkbox"/> LGU Limiting Layer Verification</p> <p><input checked="" type="checkbox"/> Other <u>System Constructed on rock</u></p> |
|---|--|--|

Status of the system

Based on the compliance criteria, the system status is: (check one) failing (to protect groundwater) an imminent threat to public health or safety (ITPHS), non-compliant (monitoring issue) **compliant** (none of the 3 previous conditions). Therefore, this document is a Certificate of Compliance Notice of Noncompliance
Is this system an EPA Class V Injection Well? yes no

Certification

I hereby certify as a state of Minnesota licensed Inspector and/or Designer I or Qualified Employee Inspector and/or Qualified Employee Designer I that I conducted an investigation that accurately determined the compliance status of this system and that my recorded observations are accurate as of this date. No determination of future hydraulic performance has been nor can be made due to unknown conditions during system construction, abuse of the system, inadequate maintenance, or future water usage.

Inspector's name (print) Jack E. Gill Phone (651)426-0880
License and/or Registration Number 604 Address 122 Forest Ave., Mahtomedi, MN 55115
Employed by PBI Environmental Services Address 122 Forest Ave., Mahtomedi, MN 55115
Signature [Signature] Date 4-23-02

Upgrade Requirements (derived from Minnesota Statutes § 115.55)
An 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 fails to provide sufficient groundwater protection, then the system must be upgraded, replaced, or its use discontinued within the time required by rule or the 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 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.

Suggested Attachments

- 1) Site sketch could also include: well, well setback to system, dwelling or other buildings, tank(s), reserved soil treatment area, surface water and soil boring locations. Include as-built drawing if available.
- 2) Soil boring logs, showing each horizon. Indicate the texture, color, redoximorphic features depth to bedrock, standing water and whether the material is fill.
- 3) A list of any and all requirements of the local ordinance that are different from the state requirements referred to on this form.
- 4) A homeowner survey of system performance, signed by the homeowner as being factual.
- 5) Monitoring data as appropriate.