



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

Ex

Compliance Inspection Form



171049120

stems
SSTS)
forcement

Instructions: 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:

RECEIVED

AUG 29 2013

ZONING

System Status

System status on date (mm/dd/yyyy): 8-29-2013

☒ **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: 17.1049.120

Property address: 22545 N Pearl Lake Rd

Property owner: Don, Tony Smith

or

Owner's representative: _____

Local regulatory authority: _____

Brief system description: 1800 gal tank - grassless pipe installed

Comments or recommendations: 1830 Heritage Dr.
Detroit Lakes, MN

Reason for inspection: Mandate

Owner's phone: 849-5749

Representative phone: _____

Regulatory authority phone: _____

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: Daryl Bengtson

Business name: _____

Inspector signature: Daryl Bengtson

Certification number: _____

License number: 478

Phone number: _____

Necessary or Locally Required Attachments

☒ Soil boring logs

☒ System/As-built drawing

☐ Forms per local ordinance

☐ Other information (list): _____

1. Impact on Public Health – Compliance component #1 of 5

Compliance criteria:

System discharge sewage to the ground surface.	☐ Yes ☒ No
System discharge sewage to drain tile or surface waters.	☐ Yes ☒ No
System cause sewage backup into dwelling or establishment.	☐ Yes ☒ No

Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.

Comments/Explanation: _____

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>	☐ 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.

Comments/Explanation: _____

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 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: _____ Inspector initials/Date: _____

4. Soil Separation – Compliance component #4 of 5

Date of installation: _____
Shoreland/Wellhead protection/Food Beverage
Lodging? ☒ Unknown ☒ 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.

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:

Indicate depths of elevations

A. Bottom of distribution media	24"
B. Periodically saturated soil/bedrock	60" +
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

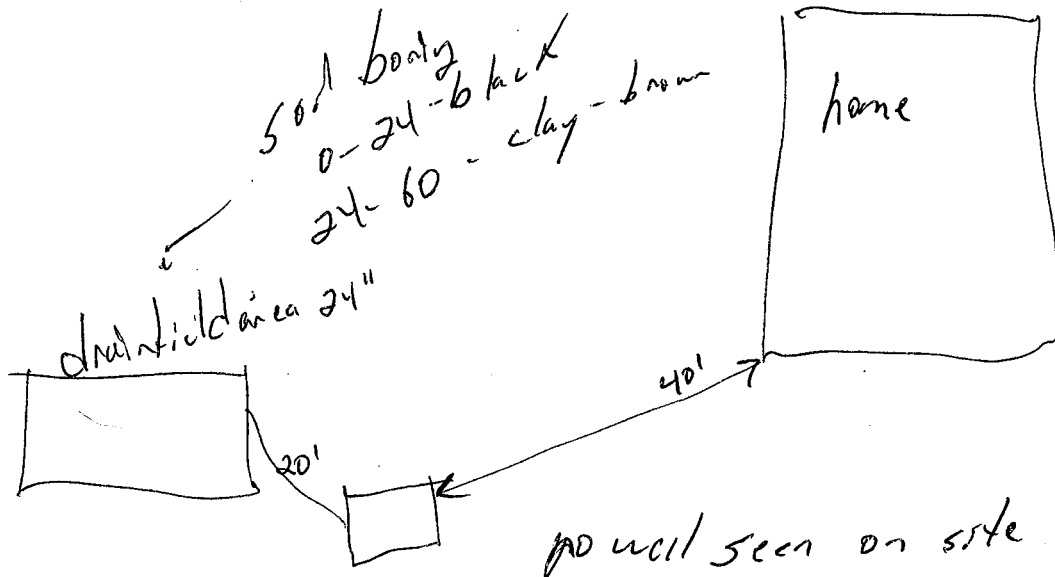
a. Operating Permit number: _____
Have the Operating Permit requirements been met? ☐ Yes ☐ No

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.

Pearl Lake



Drive

**PERMIT MUST BE
POSTED AT THE
CONSTRUCTION SITE**

Becker County Planning & Zoning

835 Lake Ave, P O Box 787

Detroit Lakes, MN 56502-0787

Phone (218)-846-7314; Fax (218)-846-7266

22545

Onsite Septic System Site Evaluation/Design Tax Parcel Number R17-1049-120 911 Address 22569 N. Pearl Lk. Rd

Legal Description: Pearl Lake EST. Lot 20 Section 12 TWP 138 42 Range 42

Lake Name Pearl Lake Classification Rec. Dev Township Name Lake Eunice

Owner's Name Don Smith Address 20430 Co. Hwy 21

City Detroit Lakes State/Zip MN 56501 Phone Number 218-846-0822

Number of Bedrooms 3
Design Flow 450 GPD

Well Casing Depth Proposed Deep well
Depth of other Wells within
100 ft of system N/A

Garbage Disposal (Yes) (No)
Grinder Pump/Lift Station
In House (Yes) (No)

Type of Observation: (Probe) Pit Boring
Original Soil (Yes) (No) Compacted Soil (Yes) (No)
Depth to Restricting Layer 60"
Maximum of Depth of System 24"
Perc Rate 7.7 Soil Sizing Factor 1.27

Proposed Design
() Replace Septic Tank
(X) Septic Tank/Drainfield
() Drainfield Only
() Holding Tank
() Lift Station

Type of Drainfield
(X) Standard (gravelless/chamber)
() Standard (rock depth)
() Standard Bed
() Mound () At Grade
() Pressurized Bed

SOIL BORING LOG

SOIL BORING LOG

DEPTH (INCHES)	TEXTURE	COLOR & MUNSELL NO.	STRUCTURE
0-7"	Sandy Loam	Top Soil	BLOCKY PLATY PRISMATIC NONE
7-38"	Sandy Loam	10YR 5/3	<u>(BLOCKY)</u> PLATY PRISMATIC NONE
38-60"	Sandy Loam	10YR 5/4	<u>(BLOCKY)</u> PLATY PRISMATIC NONE
			BLOCKY PLATY PRISMATIC NONE

DEPTH (INCHES)	TEXTURE	COLOR & MUNSELL NO.	STRUCTURE
0-8"	Sandy Loam	Top Soil	BLOCKY PLATY PRISMATIC NONE
8-34"	Sandy Loam	10YR 5/3	<u>(BLOCKY)</u> PLATY PRISMATIC NONE
34-60"	Sandy Loam	10YR 5/4	<u>(BLOCKY)</u> PLATY PRISMATIC NONE
			BLOCKY PLATY PRISMATIC NONE

Type of alarm
Device on lift
Station or
Holding tank

N/A

Attach perc test
Information if
Required

Name and Address of Designer Dan Schlanderoff Phone 847-6247

MPCA Number 410 Date of Site Evaluation 4-19-02 Signature of Designer Dan Schlanderoff

Name of Installer (if different from Designer) homeowner MPCA Number

FOR USE BY BECKER COUNTY ENVIRONMENTAL SERVICES DEPARTMENT ONLY

*** Any changes to the permit must first be approved by Becker County Planning & Zoning. No system shall be covered up without inspection by Becker County Planning & Zoning.

*** Inspections must be scheduled at least 24 hours prior to time requested.

Date Received 5/7/02 Application Fee 75⁰⁰ State Surcharge Total 75⁰⁰

[] Application is hereby denied
[X] Application is hereby granted to D. Smith to install an individual septic system according to the specifications of the site evaluation and design submitted to the Becker County Environmental Services Office. By Order of: Heidi Moltz

Signature of Becker County Qualified Employee Heidi Moltz Date Permit Issued 5/7/02 Permit Number 17383

This permit expires on 5/7/03

The site plan must be drawn to dimension or to scale:

*Dimensions of Lot

*Well & Water Line Locations
within 100 ft of System

*Existing & Proposed Buildings

*Distance from Property Lines

*Distance from OHWM

*Easements & setbacks

*Tank Access Route

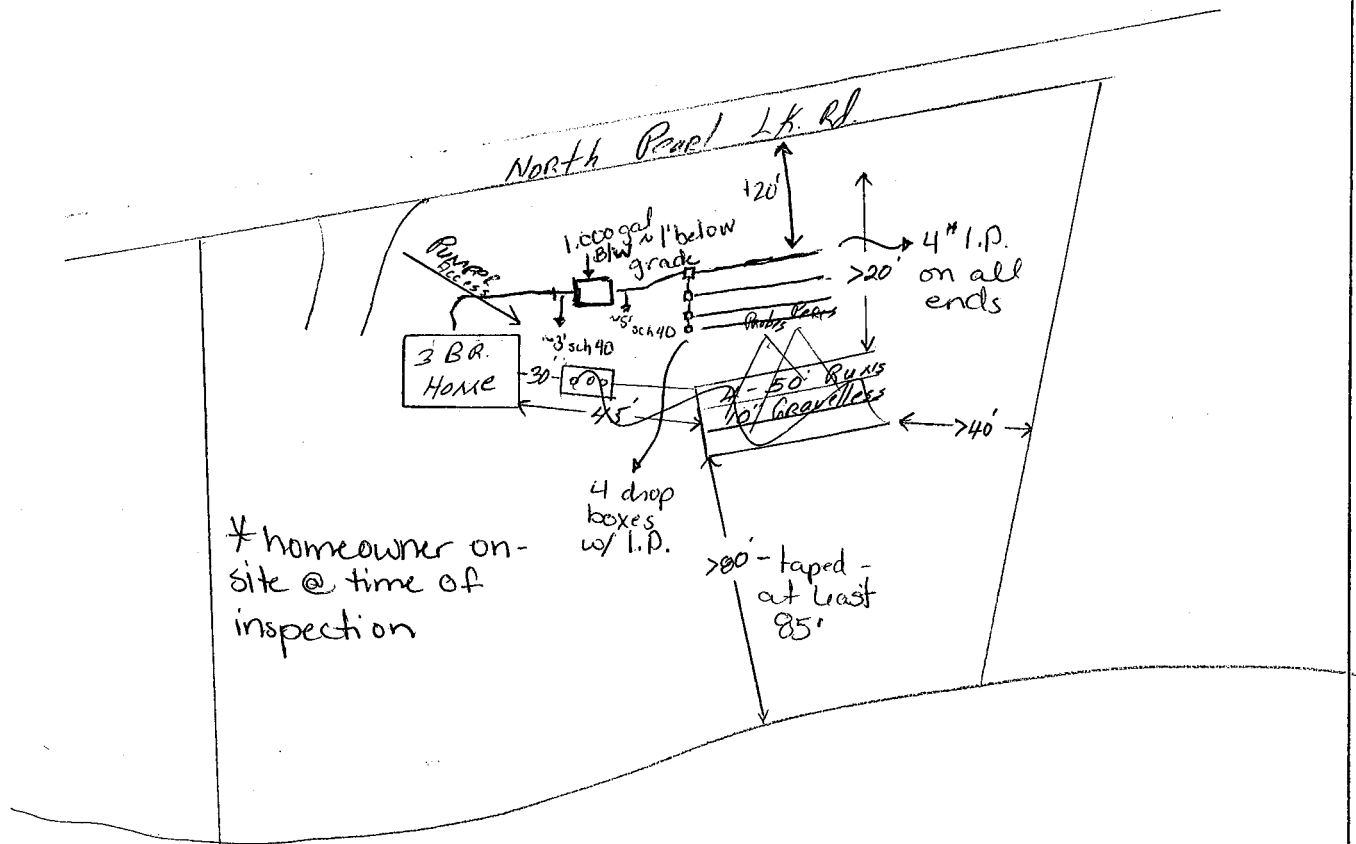
*Distance from buildings

*Scale - One inch = _____ ft.

*Location of any Unsuitable Soil

*Soil Borings & Per Test Locations

*Alternate Drainfield Location



*homeowner on-site @ time of inspection

4 - 50ft. RUNS

200 Lin. FT. 10" GRAVELLESS
DRAIN FIELD w/ 4 DROP BOXES

	Tank (estimated)	Tank (actual)	Drainfield (estimated)	Drainfield (actual)
Distances to Well		NA		NA
Distance to Building	30'	+10'	45'	+20'
Distance to Property Line	>50'	+10'	>20'	+10'
Distance to Pressure Line	N/A	NA	N/A	NA
Distance to Ordinary High Water	>100'	+75'	>80'	+75'

Tank size 1000 GAL
Lift station size N/A
Drainfield size 600 SQ. FT.
Pump HP N/A
Date Installed 9.26.02

FOR USE BY BECKER COUNTY ENVIRONMENTAL SERVICES DEPARTMENT ONLY

CERTIFICATE OF COMPLIANCE

() Certificate Is Hereby Denied

(X) Certificate is Hereby Granted Based upon the Application, addendum from, plans, specifications and all other supporting data.
With property maintenance, this system can be expected to function satisfactory, however, this is not a guarantee.

Nancy Young
Signature

Zoning Inspector
Title

9.30.02
Date

(Certificate of Compliance is not valid unless signed by a Registered Qualified Employee)

- PERCOLATION TEST SHEET -

Test hole location DRN Field Hole # 142 Date test hole was prepared: 4-19-02
 Depth of hole bottom: 26 inches Diameter of hole: 5 inches
 Soil Data from test hole:

depth, inches	soil texture:	soil color
_____	_____	_____
_____	_____	_____
_____	_____	_____

Method of scratching sidewall: Brd. w/ Nails Depth of pea size gravel in bottom of hole: 2 inches
 Date and hour of initial water filling: 4-19-8AM Depth of initial water filling: 12" above hole bottom
 Method used to maintain 12" of water depth in hole for 4 hours: Manual
 Percolation test conducted by: Dan Schlander Percolation test started at 12 (am/pm)
 Maximum water depth above hole bottom during test: 8" inches

TIME	INTERVAL (MINUTES)	WATER DEPTH	WATER DROP (fraction)	WATER DROP (decimal)	PERC RATE CALCULATION	conversions
---	START	<u>8</u>				1/16 = .06
---	<u>10</u>	<u>6 7/8</u>	<u>1 1/8</u>	<u>1.13</u>	$\frac{10}{\text{TIME}} \div \frac{1.13}{\text{DROP (Decimal)}} = \frac{8.8}{\text{PERC}}$ A	1/8 = .13
---	REFILL	<u>8</u>	<u>1</u>	<u>1</u>	$\frac{9}{\text{TIME}} \div \frac{1}{\text{DROP (Decimal)}} = \frac{9}{\text{PERC}}$ B	3/16 = .19
---	<u>9</u>	<u>7</u>				1/4 = .25
---	REFILL	<u>8</u>	<u>1 1/8</u>	<u>1.13</u>	$\frac{10}{\text{TIME}} \div \frac{1.13}{\text{DROP (Decimal)}} = \frac{8.8}{\text{PERC}}$ C	5/16 = .31
---	<u>10</u>	<u>6 7/8</u>				3/8 = .38
---	REFILL	---	---	---	$\frac{\text{TIME}}{\text{DROP (Decimal)}} = \text{PERC}$ D	7/16 = .44
---	---	---	---	---		1/2 = .5
---	REFILL	---	---	---	$\frac{\text{TIME}}{\text{DROP (Decimal)}} = \text{PERC}$ E	9/16 = .56
---	---	---	---	---		5/8 = .63
---	REFILL	<u>8</u>	<u>3 1/8</u>	<u>3.13</u>	$\frac{20}{\text{TIME}} \div \frac{3.13}{\text{DROP (Decimal)}} = \frac{6.39}{\text{PERC}}$ F	11/16 = .69
---	<u>20</u>	<u>4 7/8</u>				3/4 = .75
---	REFILL	<u>8</u>	<u>3</u>	<u>3</u>	$\frac{20}{\text{TIME}} \div \frac{3}{\text{DROP (Decimal)}} = \frac{6.67}{\text{PERC}}$ G	13/16 = .81
---	<u>20</u>	<u>5</u>				7/8 = .88
---	REFILL	<u>8</u>	<u>2 7/8</u>	<u>2.88</u>	$\frac{20}{\text{TIME}} \div \frac{2.88}{\text{DROP (Decimal)}} = \frac{6.94}{\text{PERC}}$ H	15/16 = .94
---	<u>20</u>	<u>5 7/8</u>				

Ten Percent Calculation *

A, B, C

Largest # of ABC - Smallest # of ABC = _____

Smallest # of ABC x 0.10 = _____

C, D, E

Largest # of CDE - Smallest # of CDE = _____

Smallest # of CDE x 0.10 = _____

E, F, G

Largest # of EFG - Smallest # of EFG = _____

Smallest # of EFG x 0.10 = _____

B, C, D

Largest # of BCD - Smallest # of BCD = _____

Smallest # of BCD x 0.10 = _____

D, E, F

Largest # of DEF - Smallest # of DEF = _____

Smallest # of DEF x 0.10 = _____

F, G, H

Largest # of FGH - Smallest # of FGH = _____

Smallest # of FGH x 0.10 = _____

* If the top number in each set of boxes is larger than the bottom number then take another reading. If the top number is equal or smaller than bottom number, average the three numbers for the perc rate.