MINNESOTA POLLUTION CONTROL AGENCY

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

Compliance inspection report form

Existing Subsurface Sewage Treatment System (SSTS)

Doc Type: Compliance and Enforcement

Instructions: Inspector must submit completed form to Local Governmental Unit (LGU) and system owner within 15 days of final determination of compliance or noncompliance. Instructions for filling out this form are located on the Minnesota Pollution Control Agency (MPCA) website at https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf.

Property information

Local tracking number:

Parcel ID# or Sec/Twp/Range: 2611823310017 Reason for Inspection Property Transfer

Local regulatory authority info: City of Orono

Property address: 1085 Tamarack Drive, Orono MN

Owner/representative: Pihl, Eric & Holly Owner's phone:

Brief system description: (1) 1250 gallon Pre-cast Septic tank (1) 1000 gallon pre-cast septic tank, (1) 1500 gallon pump tank and a 10 x 63 foot rockbed Above Grade drainfield with 12 inches of sand under rockbed.

System status

System status on date (mm/dd/yyyy): 10/9/2023

☒ **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**

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

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.

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

Pump tanks every 3 years. Highly recommend that the trees and small schrubs be removed from the mound area as the roots may cause blockage in the distribution pipe. Trees are ok at the base. FILTER IN 2ND TANK THAT NEEDS TO BE PULLED AND CLEANED TWICE A YEAR BY HOMEOWNER Cover on first tank is not tight due to landscaping.

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: Chip's Septic Services LLC Certification number: L4761

Inspector signature: License number: 2064

(This document has been electronically signed) Phone: 952-200-3176

Necessary or locally required supporting documentation (must be attached)

☐ Soil observation logs ☐ System/As-Built ☐ Locally required forms ☐ Tank Integrity Assessment ☐ Operating Permit

☐ Other information (list):

Property Address: 1085 Tamarack Drive, Orono MN

Business Name: Chip's Septic Services LLC Date: 10/9/2023

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.

Attached supporting documentation:

☐ Other:

☐ Not applicable

Describe verification methods and results:

Visual. Ran pump to dertermine hydraulic loading of system.

2. Tank integrity – Compliance component #2 of 5

Compliance criteria:	
System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	☐ 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.

Attached supporting documentation:

☒ Empty tank(s) viewed by inspector

Name of maintenance business: Sewer Services Inc.

License number of maintenance business: 2502

Date of maintenance: 10/9/2023

☐ 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:

Describe verification methods and results:

Pumped tanks and camera inspected each tank through the 2 foot manhole. Pump tanks every 3 years. FILTER IN 2ND TANK. THIS MUST BE PULLED AND CLEANED AT LEAST TWICE A YEAR BY HOMEOWNER

Property Address: 1085 Tamarack Drive, Orono MN
Business Name: Chip's Septic Services LLC Date: 10/9/2023

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:

visual

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) ☐ /

Property Address: 1085 Tamarack Drive, Orono MN
Business Name: Chip's Septic Services LLC Date: 10/9/2023

5. Soil separation – Compliance component #5 of 5

Date of installation 9/23/2003 *(mm/dd/yyyy)* ☐ Unknown

Shoreland/Wellhead protection/Food beverage lodging? ☐ Yes ☒ No

Attached supporting documentation:

☒ Soil observation logs completed for the report
☐ Two previous verifications of required vertical separation
☐ 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:* Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No*
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:* Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*	☒ Yes ☐ No*
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 (Intermediate Inspector License required ≤ 2,500 gallons per day; Advanced Inspector License required > 2,500 gallons per day)* Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No*

Indicate depths or elevations

A. Bottom of distribution media	12 inches of sand
B. Periodically saturated soil/bedrock	28 inches
C. System separation	36
D. Required compliance separation*	31

*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:

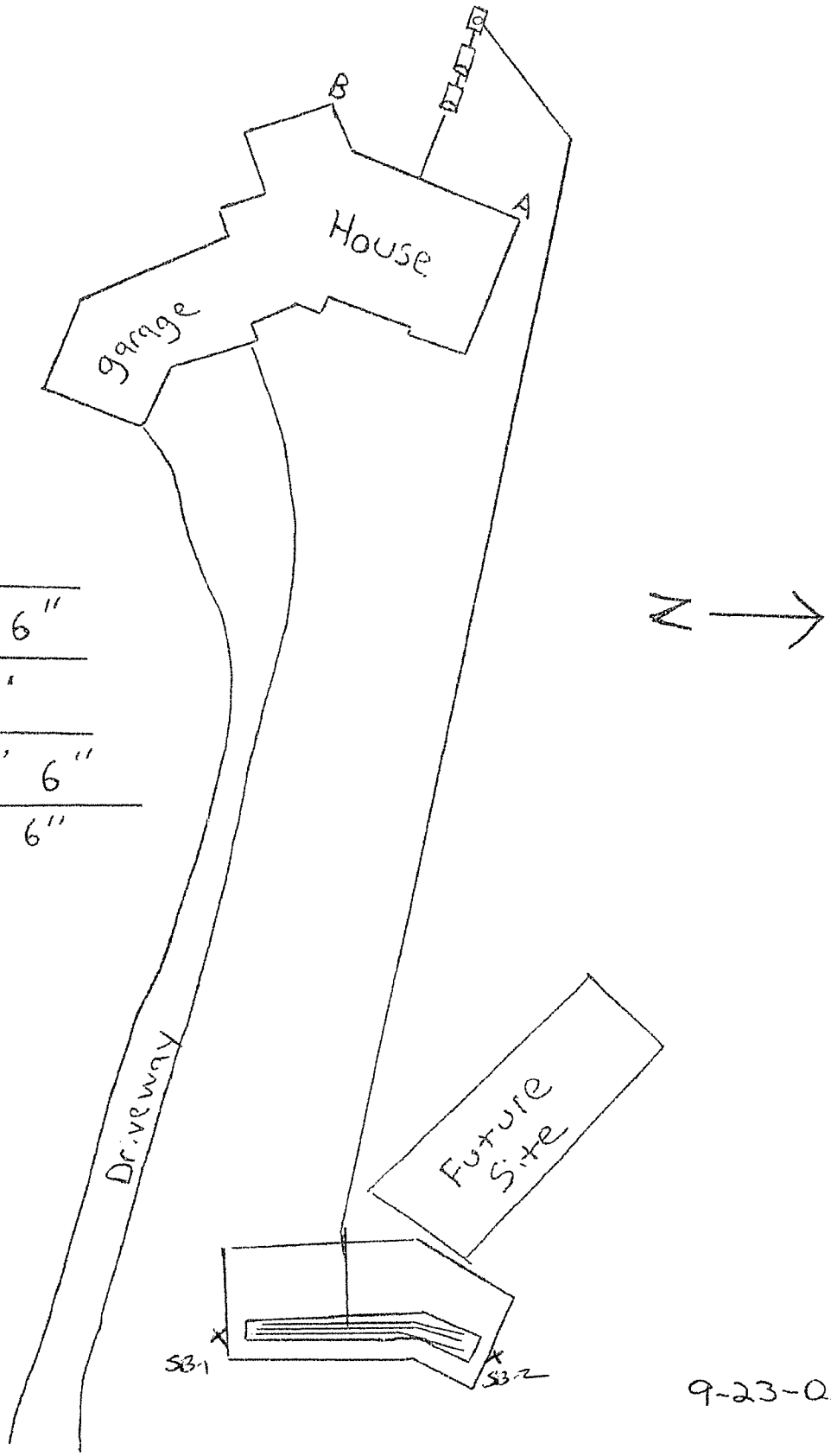
Used soil probe to determine soil type and depth of seasonal watertable.

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,*

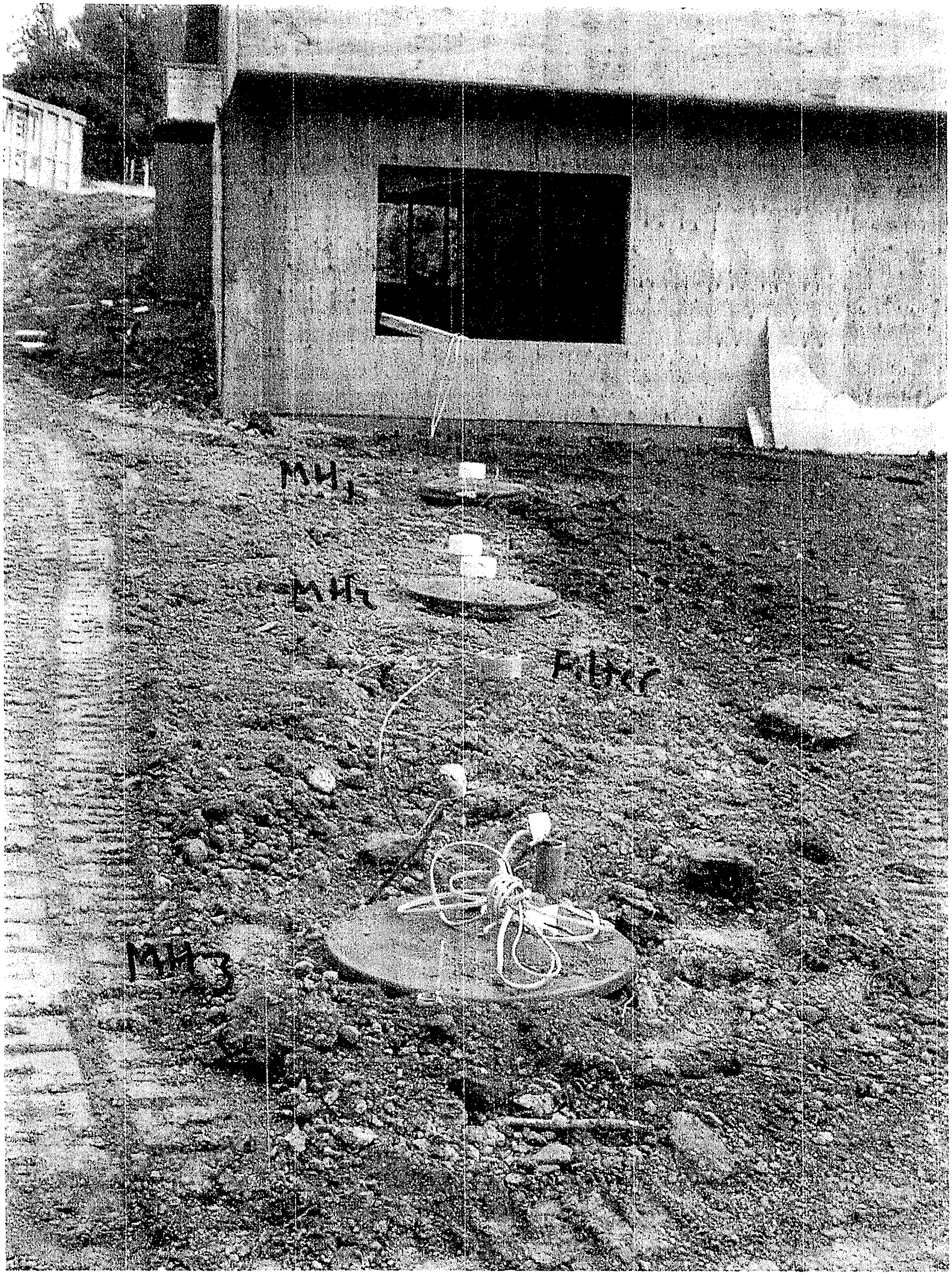
beverage, and lodging establishments as defined in law.

1085 Tamarack Dr.

	A	B
MH1	15'	52' 6"
MH2	26'	56'
Filter	31'	57' 6"
MH4	40' 6"	63' 6"



9-23-03



10[illegible] Tamarack Septic tanks

Soil Observation Log

www.SepticResource.com vers 12.4

Owner Information

Property Owner / project: Charles Pihl Date 10/9/2023

Property Address / PID: 1085 Tamarack Drive, Orono

Soil Survey Information

☐ refer to attached soil survey

Parent matl's: ☑ Till ☐ Outwash ☐ Lacustrine ☐ Alluvium ☐ Organic ☐ Bedrock

landscape position: ☑ Summit ☐ Shoulder ☐ Side slope ☑ Toe slope

soil survey map units: _____ slope _____ % direction- downhill

Soil Log #1

☐ ~~Boring~~ ☐ Pit Elevation _____ Depth to SHWT 24

Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0-12	L	<35 35 - 50 >50	10YR 3/2		loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
12-20	L	<35 35 - 50 >50	3/4		loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
20-26	Silty CL	<35 35 - 50 >50	5/4		loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
26-30	CL	<35 35 - 50 >50	5/4	Depletion 10R 6/1 6/2	loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

Comments:

1085 Tamarack Drive, Orono		**Soil Log #2**					
	☑ Boring	☐ Pit	Elevation ____		Depth to SHWT 28		
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0-14	L	<35 35 - 50 >50	10YR 2/2		loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
14-22	L	<35 35 - 50 >50	3/3		loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
22-28	CL	<35 35 - 50 >50	5/4		loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
28-32	CL	<35 35 - 50 >50	5/6	Depletions 10YR 6/1	loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

1085 Tamarack Drive, Orono		**Soil Log #3**					
	☐ Boring	☐ Pit	Elevation ____		Depth to SHWT ____		
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

I hereby certify this work was completed in accordance with MN 7080 and any local req's.

Designer Signature	Chip Septic Servies LLC Company	2064 License #

LOGS OF SOIL BORINGS

Location or Project 1085 TAMARACK

Borings made by SWEDLUND Date 6-28-03

Classification System: ☐ AASHO ☑ USDA-SCS ☐ Unified ☐ Other

Auger used (check two): ☑ Hand ☐ or Power; ☐ Flight ☑ or Bucket; ☐ Other

Boring Number B1

Surface Elevation

Depth, in feet	
0	MUNSELL 10YR
1	0/12 Loam 2/2
2	12/30 Silty Loam 5/4-5/6
3	MOTTLED 26" 6/2 GRAY
4	
5	
6	
7	
8	
9	
10	

End of boring at 2 1/2 feet.

Standing water table:

☐ Present at _____ feet of depth, _____ hours after boring.

☒ Not present in boring hole.

Mottled Soil:

☐ Observed at 2'2" feet of depth.

☐ Not present in boring hole.

Boring Number B2

Surface Elevation

Depth, in feet	
0	MUNSELL 10YR
1	0/14 Loam 2/2
2	14/24 Loam 3/3
3	24/36 Sandy Loam 5/6
4	36/98 Silty Loam 5/6
5	MOTTLED 4' 6/2 GRAY
6	
7	
8	
9	
10	

End of boring at 4 feet.

Standing water table:

☐ Present at _____ feet of depth, _____ hours after boring.

☒ Not present in boring hole.

Mottled Soil:

☐ Observed at 4 feet of depth.

☐ Not present in boring hole.

LOGS OF SOIL BORINGS

Location or Project 1085 TAMARACK

Borings made by SWEDLUND Date 6-28-03

Classification System: ☐ AASHO ☑ USDA-SCS ☐ Unified ☐ Other

Auger used (check two): ☑ Hand ☐ or Power; ☐ Flight ☑ or Bucket; ☐ Other

Depth, in feet	Boring Number B3 Surface Elevation
0	MUNSELL 10YR
1	0/12 LOAM 2/2
1 –	12/18 LOAM 3/3
2 –	18/48 SILTY LOAM 5/6
3 –	
4 –	MOTTLED 46" 6/2 GRAY
5 –	
6 –	
7 –	
8 –	
9 –	
10 –	

End of boring at 4 feet.

Standing water table:

☐ Present at _____ feet of depth, _____ hours after boring.

☒ Not present in boring hole.

Mottled Soil: 1 11

☐ Observed at 3/12 feet of depth.

☐ Not present in boring hole.

Depth, in feet	Boring Number B4 Surface Elevation
0	MUNSELL 10YR
1	8 LOAM 2/2
1 –	14 LOAM 3/3
2 –	30 SILTY LOAM 5/6
3 –	MOTTLED 30" 6/2 GRAY
4 –	
5 –	
6 –	
7 –	
8 –	
9 –	
10 –	

End of boring at 2 1/2 feet.

Standing water table:

☐ Present at _____ feet of depth, _____ hours after boring.

☒ Not present in boring hole.

Mottled Soil:

☐ Observed at 2 1/2 feet of depth.

☐ Not present in boring hole.

LOGS OF SOIL BORINGS

Location or Project 1085 TAMARACK

Borings made by SWEDLUND Date 6-28-03

Classification System: ☐ AASHO ☑ USDA-SCS ☐ Unified ☐ Other

Auger used (check two): ☑ Hand ☐ or Power; ☐ Flight ☑ or Bucket; ☐ Other

Depth, in feet	Boring Number B5 Surface Elevation	
0	MUNSELL 10YR	
1	0/12	LOAM 2/2 - 3/3
2	12/36	SILTY LOAM 5/6
3		MOTTLED 34"
4		6/2 GRAY
5		
6		
7		
8		
9		
10		

End of boring at 3 feet.

Standing water table:

☐ Present at _____ feet of depth,
_____ hours after boring.

☒ Not present in boring hole.

Mottled Soil:

☐ Observed at 2'10" feet of depth.

☐ Not present in boring hole.

Depth, in feet	Boring Number B6 Surface Elevation	
0	MUNSELL 10YR	
1	0/15	LOAM 2/2
2	20	LOAM 3/3
3	20/36	SILTY LOAM 5/4-5/6
4		MOTTLED 32"
5		6/2 GRAY
6		
7		
8		
9		
10		

End of boring at 3 feet.

Standing water table:

☐ Present at _____ feet of depth,
_____ hours after boring.

☒ Not present in boring hole.

Mottled Soil:

☐ Observed at 2'8" feet of depth.

☐ Not present in boring hole.