



1. Contact Information		Project ID: Test 1	v 03.19.15
Property Owner/Client	Doug & Vicki Coil	Client Phone Number: 218-393-3473	
Address	34143 Dove ST. Aitkin MN 56431		
Date	8/14/2021	Weather Conditions	Sunny

2. Utility and Structure Information			
Utility Locations Identified	<input type="checkbox"/> Gopher State One Call #	<input type="checkbox"/> Any Private Utilities	
Property Lines	<input checked="" type="checkbox"/> Determined and Approved by Client	Client's Approval (initial)	
	<input type="checkbox"/> Determined but not Approved		
	<input type="checkbox"/> Approximate		
	<input type="checkbox"/> Property Lines Surveyed		
Locate and Verify (see Site Evaluation map)			
	<input checked="" type="checkbox"/> Existing Buildings	<input type="checkbox"/> Improvements	<input type="checkbox"/> Easements
			<input type="checkbox"/> Setbacks

3. Site Information			
Percent Slope	7	Slope Direction	South East
Landscape Position	Slope	Slope Shape	Concave
Vegetation type(s)	Woded		
Evidence of cut, fill, compacted or disturbed areas	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Discuss the flooding or run-on potential of site	All water run-on diverted around dispersal area.		
Identify benchmarks and elevations (Site Evaluation Map)	BM = 100, floor of existing cabin		
Proposed soil treatment area adequately protected	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	

4. General Soils Information			
Original soils	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Type of observation	<input type="checkbox"/> Soil Probe	<input checked="" type="checkbox"/> Soil Boring	<input type="checkbox"/> Soil Pit
Number of soil observations	2		
Soil observations were conducted in the proposed system location	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
A soil observation was made within the most limiting area of the proposed system	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Soil boring log forms completed and attached	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Percolation tests performed, forms completed and attached	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

5. Phase I. Reporting Information			
Depth to standing water	NA	inches	Anticipated construction issues
Flood elevation	NA	feet	
Depth to bedrock	NA	inches	
Depth to periodically saturated soil	NA	inches	
Maximum depth of system	36	inches	Differences between soil survey and field evaluation
Elevation at system bottom	95	feet	
Percolation rate		min/inch	
Loading rate	0.79	gpd/ft ²	
Contour loading rate	12	gpd/ft	Soil Survey states - 928C, Cushing Mahtomedi Complex
Soils on site are loamy sand			
Site evaluation issues / comments			

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

Greg Westerlund	Greg Westerlund	663	8/18/21
(Designer)	(Signature)	(License #)	(Date)

OSTP Soil Observation Log

Project ID:

Coil

v 03.19.15



Client/ Address:

Doug & Vicki Coil

Legal Description/ GPS:

PT NE NE Less Doc. 354128, Less ROW

Soil parent material(s): (Check all that apply)

- Outwash
 Lacustrine
 Loess
 Till
 Alluvium
 Bedrock
 Organic Matter

Landscape Position: (check one)

- Summit
 Shoulder
 Back/Side Slope
 Foot Slope
 Toe Slope
 Slope shape

Convex

Vegetation

Wooded

Soil survey map units

928C

Slope%

0.1

Elevation:

95

Weather Conditions/Time of Day:

Sunny/ 1:00 PM

Date

08/14/21

Observation #/Location:

Soil Boring #1 / West end of trench site

Observation Type:

Auger

Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	Structure		
							Shape	Grade	Consistence
5	Loamy Fine Sand	<35%	10YR 3/1				Single grain	Weak	Friable
48	Loamy Sand	<35%	10YR 4/6				Single grain	Weak	Friable
70	Loamy Sand	<35%	10YR 4/4				Single grain	Weak	Loose

Comments

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

Greg Westerland
(Designer/Inspector)

Greg Westerland
(Signature)

663
(License #)

8/18/21
(Date)

OSTP Soil Observation Log

Project ID:

Coil

v 03.19.15



Client/ Address:

Doug & Vicki Coil

Legal Description/ GPS:

PT NE NE Less Doc. 354128, Less ROW

Soil parent material(s): (Check all that apply)

- Outwash
 Lacustrine
 Loess
 Till
 Alluvium
 Bedrock
 Organic Matter

Landscape Position: (check one)

- Summit
 Shoulder
 Back/Side Slope
 Foot Slope
 Toe Slope
 Slope shape

Convex

Vegetation

Wooded

Soil survey map units

928C

Slope%

0.1

Elevation:

95

Weather Conditions/Time of Day:

Sunny/ 1:00 PM

Date

08/14/21

Observation #/Location:

Soil Boring #2/ East end of Trench site

Observation Type:

Auger

Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	Structure		
							Shape	Grade	Consistence
5	Loamy Fine Sand	<35%	10YR 3/1				Single grain	Weak	Friable
47	Loamy Sand	<35%	10YR 4/6				Single grain	Weak	Friable
70	Loamy Sand	<35%	10YR 4/4				Single grain	Weak	Loose

Comments

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

Greg Westlund
(Designer/Inspector)

Greg Westlund
(Signature)

663
(License #)

8/18/21
(Date)

SECTION 13: Forms and Reference ■ 13-15



OSTP Trench & Bed Design Worksheet

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1. SYSTEM SIZING:

A. Design Flow: GPD B. Maximum Depth: inches

C. Soil Loading Rate: GPD/ft² C(i). Recommended CLR: gal/ft

D. Required Bottom Area: Design Flow (1.A) ÷ Loading Rate (1.C) = Initial Required Bottom Area
 GPD ÷ GPD/ft² = ft²

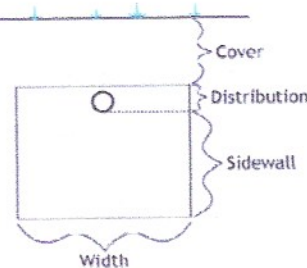
E. Select Dispersal Media: Rock
 Other Approved Media (Describe):

F. Select Distribution Method: Pressure (required for rapidly permeable soils)
 Gravity-Drop Box
 Gravity-Other (Describe):

G. Select Dispersal Type: Trench - Rock or equivalent (section 2 below)
 Trench - Registered Products (section 3 below)
 Bed (section 4 below)

2. TRENCH CONFIGURATION: (Rock or equivalent media)

A.	Initial required trench bottom area (ft ²): (from 1.D)	Sidewall Absorption (inches)	Bottom Area Reduction	Bottom Area Multiplier	Design trench bottom area
		6 to 11	0%	1	
		12 to 17	20%	0.8	
		18 to 23	34%	0.66	
		24	40%	0.6	



B. Select Sidewall Height: inches = ft

C. Design Bottom Area (2.A): ft²

D. Select Trench Width: inches = ft

E. Total Designed Trench Length: Bottom Area (2.C) ÷ Trench Width (2.D) = Total Required Trench Length
 ft² ÷ ft = ft

F. Select Trench Spacing: ft (typically 5 - 12 ft from center to center)

G. Calculate Lawn Area: Trench Length (2.E) X Trench Spacing (2.F) = ft² lawn area
 ft X ft = ft² lawn area

H. Calculate Minimum length based on Contour Loading Rate: Design Flow(1A) ÷ CLR (1Ci) =
 gpd ÷ gal/ft = ft

I. If using rock or similar substitute media, select Depth Required to Cover Distribution Pipe:
 ft (0.33 for pressure, 0.5 for gravity)

J. Calculate Media Volume: (Sidewall Height (2.B) + Depth to Cover Pipe (2.H)) X Bottom Area (2.C) = cubic ft.
 (ft + ft) X ft² = ft³
 Divide ft³ by 27 ft³/yd³ to calculate cubic yards:
 ft³ ÷ 27 = yd³

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3. TRENCH CONFIGURATION: (Registered Products)

A. Registered Product: Bio-diffuse, 11" Chamber (from MPCA list)

B. Product Absorption Area: 2.7 ft² / linear ft
(from MPCA Registered Product List)

C. Req'd Bottom Area (1.D): 379.75 ft²

D. Total Required Trench Length: Bottom Area (4.C) ÷ Sizing Value (4.B) = Total Required Trench Length
379.75 ft² ÷ 2.7 ft² / lin. ft = 141 ft

E. Select Trench Spacing : 6 ft (typically 5 - 12 ft from center to center)

F. Calculate Lawn Area: Trench Length (3.D) X Trench Spacing (3.E) = ft² lawn area
141 ft X 6 ft = 846 ft² lawn area

4. BED CONFIGURATION: (for sites with less than 6% slope)

A. Select size Multiplier : 1.0 = pressurized
1.5 = gravity (not allowed in rapidly permeable soils)

B. Req'd Bottom Area (1.D): ft²
Designed Bottom Area : ft²

C. Select Bed Width : ft Maximum width = 25 ft. (pressurized)
Maximum width = 12 ft. (gravity)

D. Calculate Bed Length: Designed Bottom Area (4.B) ÷ Bed Width (4.C) = Bed Length
 ft² ÷ ft = ft

E. Select Sidewall Absorption: inches below the pipe = ft

F. Calculate Media Volume: (Media Depth (4.E) + depth to cover pipe) X Designed Bottom Area (4.B) = ft³
(ft + ft) X ft² = ft³
Calculate Volume in cubic yards: Media volume in cubic feet (4.F) ÷ 27 = cubic yards
 ft³ ÷ 27 = yd³

5. ORGANIC LOADING: (Optional)

A. Organic Loading = Design Flow X Estimated BOD in mg/L in the effluent X 8.35 ÷ 1,000,000 (See Table III)
 gpd X mg/L X 8.35 ÷ 1,000,000 = lbs BOD/day

B. Calculate System Organic Loading: lbs. BOD/day (5.A) ÷ Bottom Area (2.C) , (3.C) or (4.A) = lbs/day/ft²
 lbs/day ÷ ft² = lbs/day/ft²

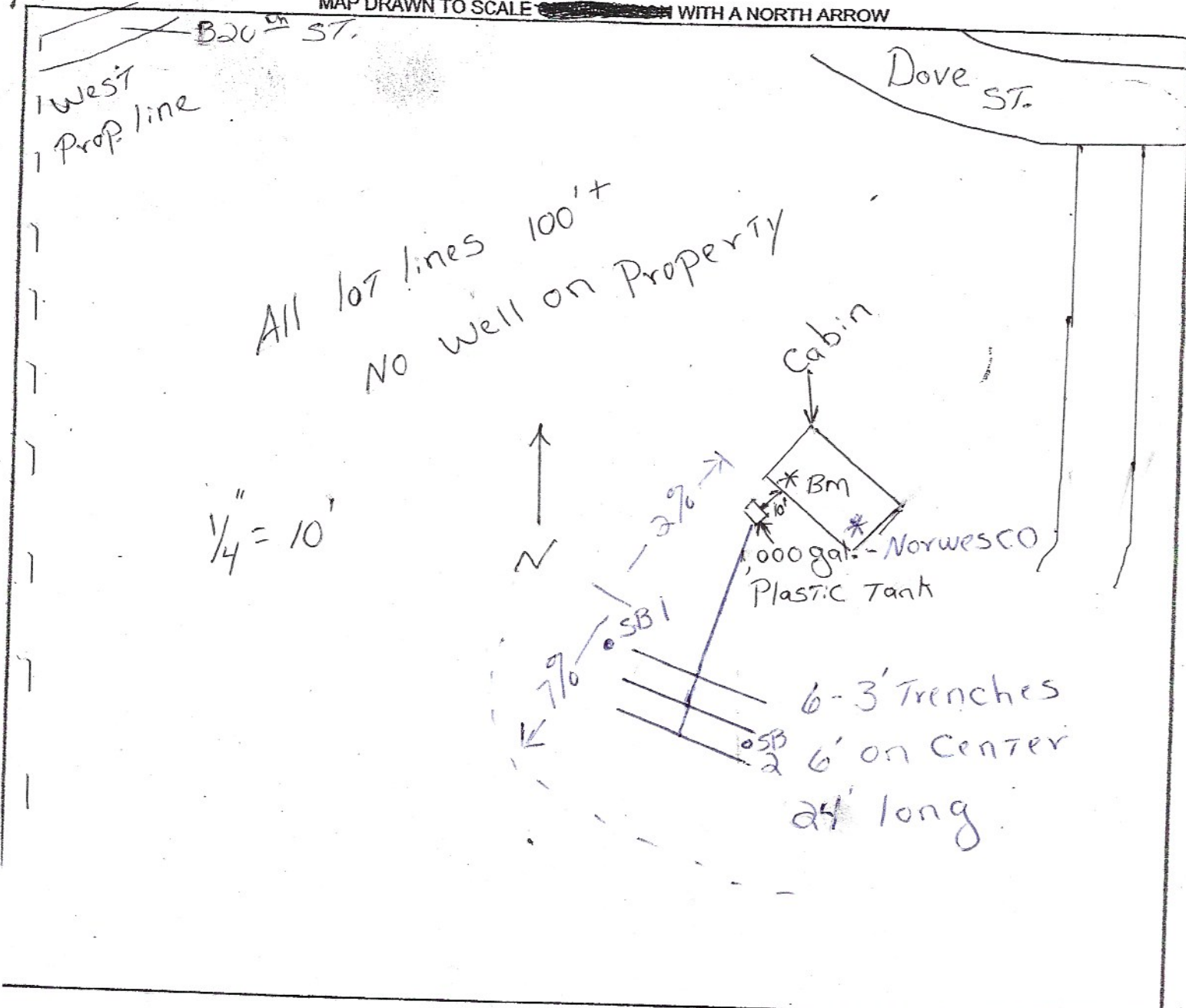
I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

Greg Westerland (Designer) Greg Westerland (Signature) 663 (License #) 8/20/21 (Date)

CLIENT: Doug Coil

DATE: 5/20/21

MAP DRAWN TO SCALE WITH A NORTH ARROW



CHECK OFF LIST-HAVE ALL OF THE FOLLOWING BEEN DRAWN ON THE MAP??

- HOW EXISTING OR PROPOSED
- WATER WELLS WITHIN 100 FT OF TREATMENT AREAS
- PRESSURE WATER LINES WITHIN 10 FT OF TREATMENT AREAS
- STRUCTURES
- ALL SOIL TREATMENT AREAS
- HORIZONTAL AND VERTICAL REFERENCE
- POINT OF SOIL BORINGS
- LOT EASEMENTS
- DISTURBED/COMPACTED AREAS
- SITE PROTECTION-LATHE AND RIBBON EVERY 15 FT
- ACCESS ROUTE FOR TANK MAINTENANCE
- REQUIRED SETBACKS
- STRUCTURES
- OHWL
- COMMENTS:
- PROPERTY LINES

INDICATE ELEVATIONS

- BENCHMARK / 00 Cabin floor
- ELEVATION OF SEWER LINE @ HOUSE 99
- ELEVATION @ TANK INLET 98-5
- ELEVATION @ BOTTOM OF ROCK LAYER
- ELEVATION @ BOTTOM OF BORING OR RESTRICTIVE LAYER
- ELEVATION OF PUMP
- ELEVATION OF DISTRIBUTION DEVICE

DESIGNER SIGNATURE Greg Westlund
LICENSE# 663

DATE 5/20/21

Septic System Best Management Practices



Septic systems protect human health and the environment by safely recycling wastewater and returning it to the natural environment. It is your job as the homeowner to be sure this happens effectively and safely. As with your car, regular maintenance and attention is needed to keep it operating efficiently in a cost effective manner.

Septic Tank

Functions:

- Separates into three layers: scum (stuff that floats), sludge (stuff that sinks), and the liquid.
- The solids and scum are held until removed by the maintainer. Anaerobic bacteria work to break down wastes, prepare the liquid for the drainfield.
- The liquid is delivered to the soil treatment area to complete the treatment process.
- If solids are not removed, they can end up in the soil treatment area, causing (often irreparable) damage.
- Factors that increase frequency of pumping: use of garbage disposal, water treatment unit that discharges into the septic system, in-home daycare or other reason a large number of people are present most of the time, laundry on the 2nd floor, excessive use of water and strong cleaning products.

Best management practices:

- Tanks need to be evaluated every two to three years and pumped if necessary. Some counties require pumping on a specified basis. New homes—pump within 3—12 months of occupancy the first time.
- Never allow a tank to be cleaned through the inspection pipe. This is not allowed by code, and it does not allow a good cleaning to occur. Scum can plug the baffle, baffles can be knocked off. Tanks should only be cleaned through the manhole or maintenance hole.
- Be sure baffles, effluent screen, pumps and other components are inspected when the tank is pumped.
- Install risers on the manhole covers to allow easier access. Insulate the cover and secure tightly.
- An effluent screen will prevent most solids from reaching the soil treatment area. Install and clean according to manufacturer recommendations.
- Never use additives. The cleaners are harmful to your system. They do not replace good management practices. Starters and feeders are not effective.
- **Warning:** NEVER go into a septic tank—there are dangerous gases and no oxygen!
- Do not ignore alarms—troubleshoot the problem.

Septage—the solids from the tank are usually land-applied. Lime is added in the truck to destroy pathogens and help control odors. Septic pumpers must follow strict guidelines to protect public safety and water quality. Septage disposal is managed by the MN Pollution Control Agency (MPCA) and the Environmental Protection Agency (EPA).

Soil Treatment Area: Trench or Mound

Functions:

- Soil organisms destroy pathogens (bacteria, viruses).
- Remove phosphorus, reduce nitrogen content.
- Recycle clean water into the soil and ground water. Water and nutrients enter the ground water, evaporate through plants, and are used by plants.

Best management practices:

- Maintain vegetative cover (turf grass, native grasses, flowers). Mow, but do not fertilize, burn or over-water.
- Keep all vehicles, bikes, snowmobiles, etc. off.
- Do not plant trees or shrubs near drainfield.
- Inspect for cracked, missing inspection pipe covers.
- Follow practices to prevent freezing, including mulching the entire system if needed.

Household Best Management Practices

Manage water use:

- Repair all leaking faucets, toilets, fixtures.
- Change to low flow toilets, shower heads.
- Replace appliances with low water use models.
- Spread water uses evenly throughout the day and week.
- Re-route clean water sources: water softener, treatment unit recharge water, high efficiency furnace drip, sump pumps to separate drainage area.

Watch what goes down the drain:

- The toilet is not a garbage can—nothing should be flushed except human waste and toilet paper.
- Excess medications—return to pharmacy or land-fill.
- Limit or eliminate drain cleaner use.
- Do not use automatic toilet cleaners, disposable brushes.
- Do not use every-use or automatic shower cleaners.
- No hazardous waste, paints, solvents, chemicals. Use disposable paint brushes.
- Eliminate or limit use of garbage disposal.
- No chlorine treated water such as from hot tubs.

Manage product use:

- Minimize use of anti-bacterial soaps, cleansers.
- Detergents: measure accurately, use as little as possible.
- Limit use of bleach-based cleansers.

For more information: Order the Septic System Owner's Guide. Call 800-876-8636 or go to <http://shop.extension.umn.edu>.

Onsite Sewage Treatment Program web site: <http://septic.umn.edu>. University of Minnesota Extension <http://www.extension.umn.edu>.

Written by Valerie Prax, Regional Extension Educator, 6/07

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**Septic System Management Plan
for Below Grade Systems**

The goal of a septic system is to protect human health and the environment by properly treating wastewater before returning it to the environment. Your septic system is designed to kill harmful organisms and remove pollutants before the water is recycled back into our lakes, streams and groundwater.

This **management plan** will identify the operation and maintenance activities necessary to ensure long-term performance of your septic system. Some of these activities must be performed by you, the homeowner. Other tasks must be performed by a licensed septic maintainer or service provider. However, it is YOUR responsibility to make sure all tasks get accomplished in a timely manner.

The University of Minnesota's *Septic System Owner's Guide* contains additional tips and recommendations designed to extend the effective life of your system and save you money over time.

Proper septic system design, installation, operation and maintenance means safe and clean water!

Property Owner	Doug & Vicki Coi	
Property Address	34193 Dove St. Aitkin	Property ID 24-0-026401
System Designer	Greg Westerlund	License # 663
System Installer	Westerlund Const.	License # 663
Service Provider/Maintainer		Phone
Permitting Authority		Phone
Permit #		Date Inspected

Keep this Management Plan with your Septic System Owner's Guide. The Septic System Owner's Guide includes a folder to hold maintenance records including pumping, inspection and evaluation reports. Ask your septic professional to also:

- Attach permit information, designer drawings and as-builts of your system, if they are available.
- Keep copies of all pumping records and other maintenance and repair invoices with this document.
- Review this document with your maintenance professional at each visit; discuss any changes in product use, activities, or water-use appliances.

For a copy of the *Septic System Owner's Guide*, call 1-800-876-8636 or go to <http://shop.extension.umn.edu/>

<http://septic.umn.edu>

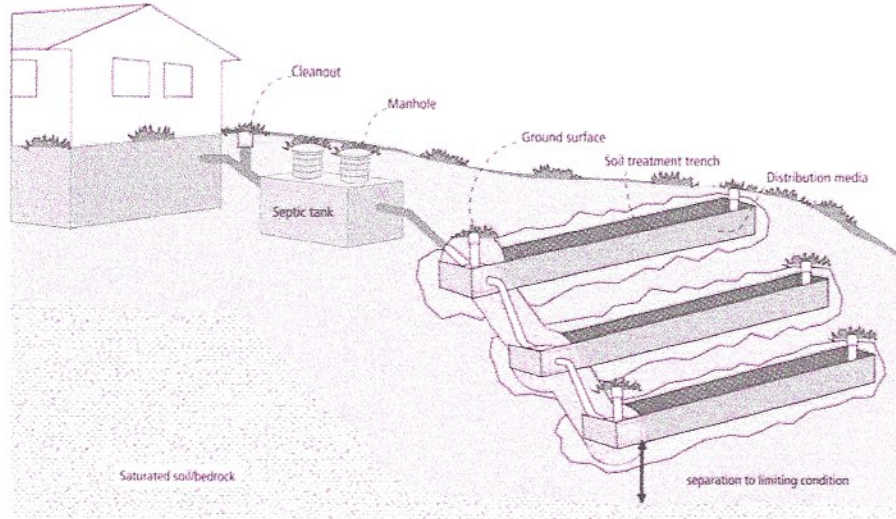
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Septic System Management Plan
for Below Grade Systems



Your Septic System



Septic System Specifics	
System Type: <u>I</u> II III IV* V* <i>(Based on MN Rules Chapter 7080.2200 – 2400)</i>	<input type="checkbox"/> System is subject to operating permit* <input type="checkbox"/> System uses UV disinfection unit* Type of advanced treatment unit _____ *Additional Management Plan required

Dwelling Type	Well Construction
Number of bedrooms: <u>2</u>	Well depth (ft): <u>NO Well</u>
System capacity/ design flow (gpd): <u>300</u>	<input type="checkbox"/> Cased well Casing depth: _____
Anticipated average daily flow (gpd): <u><300</u>	<input type="checkbox"/> Other (specify): _____
Comments _____	Distance from septic (ft): _____
In-home business? <input checked="" type="checkbox"/> What type? _____	Is the well on the design drawing? Y N

Septic Tank	
<input checked="" type="checkbox"/> One tank Tank volume: <u>1,000</u> gallons	<input type="checkbox"/> Pump Tank (if one) _____ gallons
Does tank have two compartments? Y N	<input type="checkbox"/> Effluent Pump type: _____
<input type="checkbox"/> Two tanks Tank volume: _____ gallons	TDH _____ Feet of head
<input type="checkbox"/> Tank is constructed of _____	Pump capacity _____ GPM
<input type="checkbox"/> Effluent Screen type: _____	<input type="checkbox"/> Alarm _____ visual _____ audible

Soil Treatment Area	
Trenches: <u>144</u> total lineal feet	<input checked="" type="checkbox"/> Gravity distribution <input type="checkbox"/> Pressure distribution
Number of trenches: <u>6</u> at <u>24</u> feet each	<input checked="" type="checkbox"/> Inspection ports <input type="checkbox"/> Cleanouts
Drained size (length x width): _____ ft x _____ ft	

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Septic System Management Plan
for Below Grade Systems



Homeowner Management Tasks

These operation and maintenance activities are your responsibility. Use the chart on page 6 to track your activities.

Identify the service intervals recommended by your system designer and your local government. The tank assessment for your system will be the **shortest interval of these three intervals**. Your pumper/maintainer will determine if your tank needs to be pumped.

System Designer: check every 36 months
Local Government: check every _____ months
State Requirement: check every 36 months

My tank needs to be checked
every _____ months

Seasonally or several times per year

- Leaks.* Check (listen, look) for leaks in toilets and dripping faucets. Repair leaks promptly.
- Surfacing sewage.* Regularly check for wet or spongy soil around your soil treatment area. If surfaced sewage or strong odors are not corrected by pumping the tank or fixing broken caps and leaks, call your service professional. *Untreated sewage may make humans and animals sick.*
- Alarms.* Alarms signal when there is a problem; contact your maintainer any time the alarm signals.
- Lint filter.* If you have a lint filter, check for lint buildup and clean when necessary. Consider adding one after washing machine.
- Effluent screen.* If you do not have one, consider having one installed the next time the tank is cleaned.

Annually

- Water usage rate.* A water meter can be used to monitor your average daily water use. Compare your water usage rate to the design flow of your system (listed on the next page). Contact your septic professional if your average daily flow over the course of a month exceeds 70% of the design flow for your system.
- Caps.* Make sure that all caps and lids are intact and in place. Inspect for damaged caps at least every fall. Fix or replace damaged caps before winter to help prevent freezing issues.
- Water conditioning devices.* See Page 5 for a list of devices. When possible, program the recharge frequency based on *water demand (gallons)* rather than *time (days)*. Recharging too frequently may negatively impact your septic system.
- Review your water usage rate.* Review the Water Use Appliance chart on Page 5. Discuss any major changes with your pumper/maintainer.

During each visit by a pumper/maintainer

- Ask if your pumper/maintainer is licensed in Minnesota.
- Make sure that your pumper/maintainer services the tank through the manhole. (NOT through a 4" or 6" diameter inspection port.)
- Ask your pumper/maintainer to accomplish the tasks listed on the Professional Tasks on Page 4.

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Septic System Management Plan
for Below Grade Systems



Professional Management Tasks

These are the operation and maintenance activities that a pumper/maintainer performs to help ensure long-term performance of your system. Professionals should refer to the O/M Manual for detailed checklists for tanks, pumps, alarms and other components. Call 800-322-8642 for more details.

- Written record provided to homeowner after each visit.

Plumbing/Source of Wastewater

- Review the Water Use Appliance Chart on Page 5 with homeowner. Discuss any changes in water use and the impact those changes may have on the septic system.
- Review water usage rates (if available) with homeowner.

Septic Tank/Pump Tanks

- Manhole lid.* A riser is recommended if the lid is not accessible from the ground surface. Insulate the riser cover for frost protection.
- Liquid level.* Check to make sure the tank is not leaking. The liquid level should be level with the bottom of the outlet pipe. (If the water level is below the bottom of the outlet pipe, the tank may not be watertight. If the water level is higher than the bottom of the outlet pipe of the tank, the effluent screen may need cleaning, or there may be ponding in the drainfield.)
- Inspection pipes.* Replace damaged caps.
- Baffles.* Check to make sure they are in place and attached, and that inlet/outlet baffles are clear of buildup or obstructions.
- Effluent screen.* Check to make sure it is in place; clean per manufacturer recommendation. Recommend retrofitted installation if one is not present.
- Alarm.* Verify that the alarm works.
- Scum and sludge.* Measure scum and sludge in each compartment of each septic and pump tank, pump if needed.

Pump

- Pump and controls.* Check to make sure the pump and controls are operating correctly.
- Pump vault.* Check to make sure it is in place; clean per manufacturer recommendations.
- Alarm.* Verify that the alarm works.
- Drainback.* Check to make sure it is operating properly.
- Event counter or run time.* Check to see if there is an event counter or run time log for the pump. If there is one, calculate the water usage rate and compare to the anticipated average daily flow listed on Page 2.

Soil Treatment Area

- Inspection pipes.* Check to make sure they are properly capped. Replace caps that are damaged.
- Surfacing of effluent.* Check for surfaced effluent or other signs of problems.
- Gravity trenches and beds.* Check the number of gravity trenches with ponded effluent. Identify the percentage of the system in use. Determine if action is needed.
- Pressure trenches and beds - Lateral flushing.* Check lateral distribution; if cleanouts exist, flush and clean as needed.

All other components – inspect as listed here:

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Septic System Management Plan
for Below Grade Systems



Maintenance Log

Track maintenance activities here for easy reference. See list of management tasks on pages 3 and 4.

Activity	Date accomplished											
Check frequently:												
Leaks: check for plumbing leaks												
Soil treatment area check for surfacing												
Lint filter: check, clean if needed												
Effluent screen: if owner-maintained												
Check annually:												
Water usage rate (monitor frequency _____)												
Caps: inspect, replace if needed												
Water use appliances – review use												
Other:												

Notes: _____

Mitigation/corrective action plan: _____

"As the owner of this SSTS, I understand it is my responsibility to properly operate and maintain the sewage treatment system on this property, utilizing the Management Plan. If requirements in this Management Plan are not met, I will promptly notify the permitting authority and take necessary corrective actions. If I have a new system, I agree to adequately protect the reserve area for future use as a soil treatment system."

Property Owner Signature: _____ Date _____

Management Plan Prepared By: Greg Westerylund Certification # 824

Permitting Authority: _____

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