

RICE COUNTY

Minnesota

Environmental Health Division (507) 332-6170
320 NW Third Street Suite 9 Faribault, Mn 55021-6145

Wastewater Treatment and Dispersal Operating Permit

Operating Permit # **05-01-12**

Facility Information

Circle Lake Estates Homeowner

Permittee name: Assoc. Forest Township Phone number: 507-412-9005 (Charlie P.)

Mailing address: _____

City: Faribault State: MN Zip code: 55021

Property ID number 06.15.4.76.034

Rice County Environmental Services authorizes the Permittee to operate a wastewater treatment and dispersal system at the address named above in accordance with the requirements of this operating permit. The attached Management Plan is hereby incorporated as part of the requirements of this operating permit.

Issuance date: 3/17/2020 Expiration date: 3/17/2023

System type: MSTS Treatment level: c

System design flow: 9998 Residential/Commercial: 33 Type II homes

System Description:
System components: 2" force main collector to outlot, 2 ea 5000 gal recirculation tanks, 3 ea Advantex Ax100 pods media filter. A pump serves each filter. Pretreated effluent disperses into 5499 lineal ft of drainfield trenches for final disposal. Trench media is 70% washed rock and 30% EZ Flow. STS is split into 18 zones of approx.. 305ft of pressurized shallow trenches or pressurized at grades in each zone. STS divided into 3 sections of 6 zones per section. A 6-way splitter valve is used for each of the 3 sections.

Individual Homes: Individual 2000 gallon 2-cmpt tanks w/bio tube pump vault package (special order-Brown Wilbert). Homes sized for 308 gpd with the requirement that the following five water conserving plumbing fixtures and appliances shall be installed in each home.

- Toilets having 1.6 gallons or less per flush
- Front loading clothes washing machine using 25 gallons or less per load
- Automatic dishwashers that use less than 5.5 gallons or less per load
- Shower heads with flow rates less than 2.5 gallons per minute
- Faucets with flow rates of 2.2 gallons or less per minute

*Telemetry is part of the system to monitor flows.

Performance Standard Requirements:

During the period beginning on the effective date of this permit and lasting until this permit's expiration date, the Permit-tee is authorized to discharge from the wastewater treatment unit to the subsurface dispersal field. No surface discharge is permitted.

*The system must be operated in accordance with Forest Township Subordinate Service District ordinance as amended. The Permit-tee must limit the discharge from the wastewater treatment unit as specified below:

PARAMETER	COMPLIANCE LIMIT	SAMPLE FREQUENCY	SAMPLE LOCATION	SAMPLE TYPE	REPORTING FREQUENCY
Flow	9998 gallons per day based on peak 7-day rolling average	Periodically			Annual
Fecal Coliform	10,000 or '0' at monitoring well	Annual	end of treatment pipe		Annual

cont'd:

BOD ₅	30mg/l	Annual	end of treatment pipe		Annual
TSS	65mg/l	Annual	End of treatment pipe		Annual
Total Nitrogen	<10mg/l (above baseline reading of 21.8mg/l as established in 2005)	Voluntary	Monitoring Wells		Annual if voluntarily performed

Monitoring Schedule:

PARAMETER	LOCATION	FREQUENCY
Telemetry Panels Individual Homes and STS	Computer terminals for Authorized maintenance personnel	Monitor flows on a periodic basis

Monitoring Protocol:

Any sampling and laboratory testing procedures shall be performed in accordance with the proprietary treatment product's protocol, Standard Methods, and at a Minnesota Department of Health approved laboratory.

Monitoring and Reporting Requirements:

The owner or owner's representative shall sign the monitoring reports.

Rice County Environmental Health Services or madegroot@co.rice.mn.us
 Government Services Building
 320 NW 3rd Street, Suite 9
 Faribault, MN. 55021-6145

Monitoring plans may be modified as necessary and reapproved by Rice County Environmental Health Services.

Maintenance Requirements

Maintenance requirements shall be performed as specified in the Management Plan as prepared by the system's Advanced Designer.

System component	Maintenance	Frequency
Visual check of all system components	Various components of the system	Annually
Bio tube Filters/Tanks & Pump Vaults	Check sludge accumulation, inspect for cracks & leaks, Insure access covers secure, riser joints are sealed, inlet and outlet baffles are clear.	Annually
Weed Control	Soil Treatment and Dispersal area	Annually
STS	Ponding/Surfacing in soil treatment	Annually & when onsite for service call
Maintenance type and frequency can be amended with Forest Township's acknowledgement & Township's Service Provider's recommendations.		

Contingency Plan

In the event the wastewater treatment system does not meet required performance requirements as contained in this operating permit, the owner shall notify the local unit of government within thirty (30) days of receiving non-compliant information. The owner is responsible to obtain the services of a Minnesota Pollution Control Agency (MPCA)-licensed Service Provider or other qualified practitioner to complete the required corrective measures.

1. Repair any leaks at homes and within the system if excessive flows
2. Expand dispersal field or textile filter (pretreatment device)

Special Requirements:

Water conditioning devices in the homes shall not be allowed to discharge into the wastewater collection system per System Design specifications.

Authorization

This permit is effective on the issuance date identified above. This permit and the authorization to treat and disperse wastewater shall expire in 5 year(s). The Permittee is not authorized to discharge after the above date of expiration. The Permittee shall submit monitoring information on forms as required by Rice County Environmental Health Services no later than sixty (60) days prior to the above date of expiration for operating permit renewal. This permit is not transferable.

The owner is required to obtain the services of a Minnesota Pollution Control Agency (MPCA) licensed and trained: 1) Service Provider to provide ongoing system operation, maintenance, and monitoring and 2) Maintainer to pump the system's sewage tanks and components. The owner is responsible to provide the name of the Service Provider business prior to the issuance of this operating permit. The owner has secured the services of Advanced Septic Solutions Thomas Wirtzfeld L2829 as the Service Provider for this system.

I hereby certify with my signature as the Permittee that I understand the provisions of the wastewater treatment and dispersal system operating permit including maintenance and monitoring requirements. I agree to indemnify and hold Rice County harmless from all loss, damages, costs and charges that may be incurred by the use of this system. If I fail to comply with the provisions of this operation permit, I understand that penalties may be issued.

The Operating Permit is hereby granted to:

Circle Lake Estates Homeowner Association Forest Township

Permittee (please print): Forest Township

Permitting Authority (please print): Rice County Environmental Health Services

Title: _____ Date: _____

Title: Env. Health Administrator Date: 3/7/2020

Signature: on file

Signature: 