

Facility information

Permittee Name: Robert Dotzler Phone Number: 763-434-4909
 Site address: 11683 – 117th Ave
 City, State, Zip: Finlayson MN 55735
 Parcel ID Number: 31-1-072700 County: Aitkin
 Legal Description: SEC 26 T 43 R 22 LOT Lot 21 echo hill townsite

System Information

Residential/Commercial: Residential Type I
 Design Flow: 300 GPD Hydraulic Loading: 0.83 gpd/ft2
 System Type: Performance / Type IV Organic Loading: 0.00009 BOD/ft2
 Treatment Level: Level A Anticipated Life: 25 – 40 Years

Description of Wastewater Treatment and Dispersal System

Sewage flows by gravity from the home to a 550 gallon trash trap. Effluent will then flow by gravity to a 450 gallon chamber with a MircoFAST 0.5 pretreatment unit. Effluent will then enter the 650 gallon pump chamber. A timed dose pump will dose effluent to a 12' x 21' Pressurebed built from washed rock or EZ Flow drainfield media.

Maintenance Requirements

Parameter	Maintenance	Frequency
<i>Septic tank</i>	Check solids levels, pump as needed	Semi-annual
<i>Pretreatment unit</i>	Maintain per manufactures recommendations	Semi-annual
<i>Pumps and controls</i>	Test, and clean as needed	Semi-annual
<i>Soil dispersal</i>	Observe ponding, clean laterals as needed	Semi-annual

Performance Standard Requirements

During the period beginning on the date of the Operating Permit and lasting until the Permit's expiration date, the Permittee is authorized to discharge from the wastewater treatment unit to subsurface dispersal. No surface discharge is permitted. The following parameters must be monitored and the results must be found within the compliance limits.

Parameter	Compliance Limit	Sample Frequency	Location
<i>Design Flow (GPD)</i>	300 gpd	Semi-annual	Event counter
<i>Average Flow (GPD)</i>	150 gpd	Semi-annual	Event counter
<i>CBOD₅ (mg/l)</i>	15 mg/l	As needed	After treatment before
<i>TSS (mg/l)</i>	15 mg/l	As needed	After treatment before
<i>Fecal coliform bacteria (CFU/100ml)</i>	1,000 cfu/100ml	Annual	After treatment
<i>Total Nitrogen (mg/l)</i>	n/a	n/a	After treatment
<i>Total Phosphorus (mg/l)</i>	n/a	n/a	After treatment
<i>Dissolved oxygen (mg/l)</i>	n/a	n/a	After treatment
<i>Ponding/Surfacing</i>	Minimal ponding / no surfacing	Annual	Drainfield

Monitoring and Reporting Requirements

Monitoring results obtained during each calendar year shall be submitted no later than May 31st of that year to:

Aitkin County Environmental Services
 209 2nd Street NW, Room 100
 Aitkin, MN 56431

- The monitoring reports shall be sent to the Permittee. Copies are to be retained by the Permittee.
- The Permittee shall notify Aitkin County ^{Environmental} ~~Land~~ Services within thirty (30) days when monitoring results do not meet the monitoring plan requirements of this permit.
- Monitoring plans may be modified as necessary and reapproved by Aitkin County Land Services.
- Sampling and laboratory testing procedures shall be performed in accordance with Standard Methods and the testing shall be performed by a Minnesota Department of Health approved laboratory. All sampling and testing costs shall be the responsibility of the Permittee.

Monitoring will be done by:

Septic Check, Inc. 6074 Keystone Road Milaca, MN 56353
Phone: 320-983-2447 Fax: 320-983-2151 info@septic-check.com
Lic # 2624

Mitigation Plan:

Problem	Solution
<i>Surfacing effluent</i>	Verify cause and make any necessary repairs or reduce water use.
<i>Waste strength</i>	If fecals exceed limit - reduce influent strength, increase retention time, install UV light.
<i>Exceed Flow</i>	Reduce flow, pump tanks during high use times.
<i>System un- repairable</i>	A replacement system could be constructed

I hereby certify with my signature as the designer, that all data for the operating application is true and correct to the best of my knowledge.



Date:

4/26/12

Brian Koski

License #2624

Septic Check, Inc. 6074 Keystone Road Milaca, MN 56353

320-983-2447