

#316
OP

Aitkin County Environmental Services

#35725

**Application for an
Operating Permit for Wastewater Treatment And Dispersal**

Permittee: Keith Moore

Parcel Number: 34-1-072800

Address: 11703 – 117th St.
Finlayson, MN 55735

Legal Description: Lot 22, Echo Hill Townsite, Sec. 26, T 43.N, R 22.W.

Telephone # 651-592-3797

GIS Location _____

A. Description of Wastewater Treatment and Dispersal System:

Sewage flows by gravity from the upstairs of the home, and will be lifted from the basement to a 1500 gallon septic tank. This will serve as a trash trap from which effluent will be time dosed at 250 gallons per day into a 500 gallon per day Multi-Flo Aerobic Treatment Plant. The Multi-Flo will gravity feed a 625 gallon pump tank. From that pump tank, effluent will dose into a 320 ft² pressure bed.

Number of Bedrooms = 3

Flow = 250 gallons per day

Hydraulic Loading Rate = 1.27 gpd/sqft

Organic Loading Rate = .00003 BOD/sqft

Estimated Cost of:

System Construction = \$12,000

Operation = \$10 per month

Monitoring & Servicing: first two years No Charge, after two years
\$150/yr

Testing = \$80 first year, then \$40/yr 2 years

Anticipated System Life = 25 - 40 years

B. 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 Location	Sample Frequency	Sample Type	Reporting Frequency
Flow	250 GPD	pump control	Monthly if in use	Record on log sheet	Annual

C. Maintenance Requirements:

Parameter	Location	Frequency
Daily Flow	pump control	Monthly if in use (record on log sheet)
Sludge and scum level	Septic Tank	Annually
Pump, Alarms, Floats, etc.	Tanks	Annually
Multi-Flo	Multi-Flo	Semi-annually
Surfacing effluent, landscaping etc.	Total system	Annually

D. Monitoring and Reporting Requirements:

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

Aitkin County Environmental Services
209 - 2nd Street NW
Aitkin, MN 56341

The monitoring reports shall be signed by the Permittee. Copies are to be retained by the Permittee.

The Permittee shall notify Aitkin County Environmental 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 Environmental 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, 6549 Keystone Road, Milaca, MN 56353 320-983-2447
Lic #2624

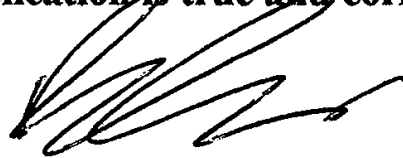
E. Mitigation Plan:

If surfacing occurs: verify cause and make any necessary repairs or reduce water use.

If flow exceeds limit: reduce flow, install water saving fixtures.

A replacement septic 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.



License #2624

9-13-07

Brian Koski 6549 Keystone Rd, Milaca, MN 56353 320-983-2447

Check pumping system, including control panel and floats.

Record and date the readings of the elapsed time meter and cycle counter(s), if applicable.

Check dosing settings (in the control panel, if applicable).

Other: _____

**If the septic tank or lift stations need pumping to be in compliance with the operating permit the cost of the pumping is the responsibility of the Client.

TREATMENT DEVICE

Inspect pretreatment unit (aerobic tank, sand filter, etc.) per manufacturer's recommendations, if applicable.

Inspect and clean any parts per manufacturer's recommendations.

____ Inspect and clean laterals, if applicable.

Inspect the appearance of the wastewater inside the unit for color, turbidity and examination of odors.

Sample effluent per Operating Permit monitoring requirements.

(Cost of sampling and analysis is the responsibility of the Client)

Other: _____

DISPERSAL FIELD

Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)

____ If liquid level monitors are installed, levels will be observed and recorded.

____ Flush filters and clean cartridges, if applicable.

____ Check field control unit solenoid operations or manual control, if applicable.

Other: _____

In no event shall the Inspector be responsible for special or consequential damages, including but not limited to, loss of time, injury to personal property or any other consequential damages or incidental or economic loss due to equipment failure or for any other reason. This contract does not assume any responsibilities or obligations, which are normally, the responsibility of the Client or as, related to parts or labor and does not extend to cover any costs that may be associated with any recommendations made under this contract.

This contract shall be effective: Beginning upon installation
~~and~~ Annually Renewed

Cost for Maintenance Service, Monitoring and Inspection Contract is:

\$ 150 /yr. For 1 ^{Annual Renewal} years totaling \$ 150
30 /yr For 2 years totaling \$0

The Inspector agrees to provide inspection, monitoring and routine maintenance service only under this contract. The Client remedies for breach of this contract shall be limited to refund of any of the amounts paid in advance for service. This contract may be renewed 30 days from the ending date.

Payment for all services shall be paid Annually in January
For year in advance

Client:

Inspector:

Sign:

[Signature]

Sign:

[Signature]

Print:

Keith Moon

Print:

Brian Kooki

Date:

9/14/07

Date:

9-13-07