

Aitkin County Environmental Services



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

MAINTENANCE SERVICE, MONITORING AND INSPECTION CONTRACT FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM

FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM	
It is hereby agreed this day of September , 2007 by and between Spire (Neck (Inspector) and (client) Brown Koshi (Client) Name & Address Keith Moore	
Street Address 11703 -117th 87.	
City, State, Zip Finlaysin, MW 55735	
That in consideration of the payments provided herein, the Inspector shall provide services to perform Preventative Maintenance, Monitoring and Inspect of the Individual Sewage Treatment System (ISTS) located at the property described in the Aitkin County Operating Permit.	tion
Each inspection includes an examination of the ISTS followed by a written report the client. This inspection report shall contain recommendations for operational maintenance for failure-preventative measures, if any are deemed appropriate by the inspector and a list of recommended corrective measures of the parts. The Inspector is authorized to submit a copy of the report the Aitkin County Environmental Services Department.	on

This contract does not assume any responsibilities or obligations, which are normally the responsibilities of the Client, 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.

The Inspector can only contract or subcontract for parts or labor after authorization. Billings for service calls shall be made on a case by case basis. This contract only covers maintenance, monitoring and inspection services per current Aitkin County Operating Permit and does not cover alarm calls of any kind.

The Inspector shall be provided access to the site and the system in order to perform the following services:

SEPTIC TANK AND LIFT STATIONS INSPECTION

(check the boxes needed to fill the requirements of the Operating Permit)
Check septic tank and compartments for solids buildup and general appearance. If necessary, have tanks pumped (cost of pumping is the responsibility of the client).
Check effluent filter for buildup and clean, if applicable.

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 upm installation
•	Annually Renewed
Cost for Maintenance Servi	ce, Monitoring and Inspection Contract is:
\$ /50 /yr. For	Mynual Feneral Vears totaling \$ 150
The Inspector agrees to provide i	2 years Istaling \$10 inspection, monitoring and routine maintenance
of the only under this contract.	THE UIENT remedies for breach of this contract
contract may be renewed 30 days	I ine amounts naid in advance for contine. This
Payment for all services shall be	noid Anna Man ' Town
Clients	paid Anmaly in January. For yew in advance Inspector:
Client:	Inspector:
Sign: Allford	Sign:
Print: Keith Moons	_ Print: Brian Kooki
	Time. Korran result
Date: 9/14/07	Date: 9-13-07

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