

Aitkin County Environmental Services
Application for an
Operating Permit for Wastewater Treatment And Dispersal

Permittee: Jim Benson

Parcel Number: 11-1-094200

Address: 43424 Conifer Street
Aitkin, MN 56431

Legal Description: Lots 50, 51, 52, & E ½ Lot 53, Plat of Coolgale Park
Sec 33 T44 R27 Hazelton Township

Telephone # 763-780-5119

GIS Location _____

A. Description of Wastewater Treatment and Dispersal System:

Sewage flows by gravity from the home to a 1860 gallon combination tank. This will be installed "backwards" so the 630 gallon chamber can serve as a trash trap. The 1230 gallon chamber will serve as a surge tank from which effluent will be time dosed at 600 gallons per day into a 600 gallon per day Multi-Flo Aerobic Treatment Plant. The Multi-Flo will gravity feed a 1500 gallon pump tank. From that pump tank, effluent will dose into a 1000 square foot pressurized bed. The bed will be built with a shallow installation and overfilled.

Number of Bedrooms = 4

Flow = 600 gallons per day

Hydraulic Loading Rate = 1.67 ft²/GPD

Organic Loading Rate = .00005 BOD/sqft

Estimated Cost of:

System Construction = TBD

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
Fecal Coliform	<1000 cfu/100ml	ATU / Pump Tank	Semi-annual 1st year		Annual
Flow	600 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.

Waste strength: if fecals exceed limit - reduce influent strength, increase retention time.
If fecals continue to exceed limit add disinfection.

If flow exceeds limit: reduce flow

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 8-28-07
Eric Larson 6549 Keystone Rd, Milaca, MN 56353 320-983-2447

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

It is hereby agreed this 28 day of August, 2007 by and between
SEPTIC CHECK, INC (Inspector) and JIM BENSON (client)

(Client) Name & Address

JIM BENSON

Street Address 43424 CONIFER ST (SITE)

City, State, Zip AITKIN, MN 56431

That in consideration of the payments provided herein, the Inspector shall provide services to perform Preventative Maintenance, Monitoring and Inspection of the Individual Sewage Treatment System (ISTS) located at the property described in the Aitkin County Operating Permit.

Each inspection includes an examination of the ISTS followed by a written report to the client. This inspection report shall contain recommendations for operation and maintenance for failure-preventative measures, if any are deemed appropriate by the inspector and a list of recommended corrective measures or replacement parts. The Inspector is authorized to submit a copy of the report to the Aitkin County Environmental Services Department.

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 UPON INSTALLATION
and Ending ANNUALLY RENEWED

Cost for Maintenance Service, Monitoring and Inspection Contract is:

\$ 0 /yr. For 2 years totaling \$ 0

CURRENT 3RD YEAR FEE IS \$150.00

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 JANUARY IN ADVANCE.

Client:

Inspector:

Sign:

James A. Benson

Sign:

Eric R. Larson

Print:

JAMES A. BENSON

Print:

ERIC R. LARSON

Date:

8/30/07

Date:

8/29/07

AITKIN COUNTY ENVIRONMENTAL SERVICES

**OPERATING PERMIT FOR WASTEWATER
TREATMENT AND DISPERSAL**

OPERATING PERMIT #: 314

FEE: 50.00

PERMITTEE: James and Linda Benson

PHONE: (952) 887-3719

ADDRESS: 8123 Pleasant View Court
Mounds View, MN 55112-

ZONING PERMIT # 35659

PARCEL #: 11-1-094200

ISSUE DATE: 8/31/2007

RENEW DATE: 5/31/2009

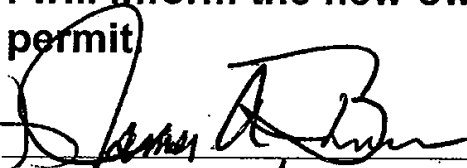
LEGALDESCRIPTION: Coolgale Park, Lots 50-52 & E 1/2 of Lot 53 Less Hwy

Aitkin County Environmental Services authorizes the Permittee to operate a wastewater treatment and dispersal system located on the above described property in accordance with the requirements of this permit.

This permit is effective on the issuance date identified above.

This permit and the authorization to treat and disperse from the above system shall expire on the above expiration date. The Permittee is not authorized to discharge after the date of expiration. The Permittee shall submit such information and forms as required by Aitkin County Environmental Services no later than thirty (30) days prior to the expiration date. When the required information is submitted and approved by Aitkin County Environmental Services, the permit may be renewed. This permit is not transferable from owner to owner.

I hereby certify with my signature as the permittee that I understand the provisions of this permit including the maintenance and monitoring requirements. I agree to indemnify and hold Aitkin County harmless from all loss, damages, costs and charges that may be incurred by use of this system and if I fail to comply with the provisions of this Operating Permit. If I sell this property during the life of the permit, I will inform the new owner(s) of the permit requirements and the need to renew the permit.



Signature of Permittee

Date
8/31/07

Date



Signature of Permitting Authority

If You have any questions regarding this permit, including the specific permit requirements, permit reporting or permit compliance status, please contact Aitkin County Environmental Services at 218-927-7342.

A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM

The existing septic tank will be crushed and filled or removed. A new 1860 gal combo tank will be installed "backwards" so the 630 gal chamber can serve as a trash trap for non-biological debris. The 1230 gal chamber will serve as a surge tank. It will be equipped with a time dose controlled effluent pump that will pump to a 600 gal per day Multi-Flo Aerobic Treatment Plant. The multi-flow will drain by gravity into a new 1500 gal pump tank, which will connect to a 1000 sq ft pressure bed.

B. PERFORMANCE STANDARD REQUIREMENTS:

During the period beginning on the effective date (issuance date) of this permit and lasting until this permits 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 FREQUENC
Fecal Coliform	< 1000 mg/l	ATU-pump tank	Semi-annual	Record on Log Sheet	ANNUALLY
Flow	600 gpd	Pump control	MONTHLY	Record on Log Sheet	ANNUALLY

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY
Flow	Pump Control	MONTHLY
Multi-Flo	Multi-flo	Semi-annually
Pumps, Floats & Alarms	Septic tank(s)	ANNUAL
Sludge & scum level	Septic tank(s)	ANNUAL
Surfacing effluent, landscaping	Total system	ANNUAL

D. MONITORING AND REPORTING REQUIREMENTS:

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

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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

E. MITIGATION PLAN:

If weeping problems should occur; lower dosing rate, lower water usage A different or another performance or other system may be installed at the owner's expense If in the event that this system should fail and if there is no other ISTS option available, then holding tanks must be installed, to be pumped by a licensed pumper with a contract

F. SPECIAL REQUIREMENTS: