

SEPTIC SYSTEM REVIEW FOR
Stiart Mittlesteadt
Parcel # 07-0-014202
Operating permit #239

Property located in Aitkin Township

September 27, 2024

The above mentioned property has an event counter installed on it. On May of 2019 the meter reading was 1,969. On Sept of 2025 the meter reading was 2,733 with a difference of 764 events. So at 200 gallon per event x 764 = 152,800 gallons divided by 1,945 days = 79 gallons per day average. The Aerobic tank, pumps, alarms and time dosing panel are all operating properly. The BOD5, TSS and fecal are all within standards (see attached sheet).

The system is set up for 600 gallons per day so I believe that we can put this system on a 5 year operating permit.

The tanks, effluent filter, pumps, floats, alarms and control panel will still be inspected ever year.

We have entered into a Maintenance, Monitoring and Inspection Contract with said property owner.

Sincerely,



Mark P. Ritter
Ritter Sewer & Excavating, Inc.



awlab.com
218-829-7974
314 Charles Street
Brainerd, MN 56401

Analysis Report

August 07, 2024

REPORT TO:

Ritter Sewer & Excavating
Mark Ritter
34753 390th Place
Aitkin MN 56431

INVOICE TO:

Ritter Sewer & Excavating
Mark Ritter
34753 390th Place
Aitkin MN 56431

Date Rcvd-Brnd: 7/26/2024
Time Rcvd-Brnd: 10:10

Sampled By: Mark P Ritter
Sample Type: WW
Recv Temp°C: 4.1 on ice

LOCATION:
Mittlesteadt

SITE / ANALYTE	Sample Date/Time	Analyzed Value	Units	Reporting Limit	Analytical Method	Analysis Date/Time	Analyst	Code #
Mittlesteadt	7/26/2024 @ 09:15							
Biochemical Oxygen Demand (BOD)		< 2.00 d	mg/L	2	HACH 10360 REV 1.2 (2011)	7/26/24 12:27	CS	096317
Fecal Coliforms		630	MPN/100mL	1	COLILERT-18 (FECAL COLI)	7/26/24 14:14	MH	096317
Residue-Nonfilterable (TSS)		2	mg/L	1	USGS I-3765-85	7/30/24 12:55	JJ	096317

d = Sample did not meet depletion requirements, results are an estimate.

Approved By:

Date Approved: 8/7/2024

Sara Ahlers, Laboratory Director

A.W. Research Laboratories, Inc. is accredited by the MNELAP and follows approved methods and procedures. MN State Laboratory ID: 027-035-135 and EPA Lab Code: MN00098. All data generated using non-accredited methods noted as -NC, and all analytes for which accreditation is unavailable -NA. The results above relate only to the samples tested. This report must not be reproduced, except in full, without the written approval of the laboratory. We appreciate your feedback, please email us at awlab@awlab.com with questions or comments. Thank you!

~End of Analysis Report~



**Aitkin County Environmental Services
Planning & Zoning**

307 Second St. NW, Room 219
Aitkin, MN 56431
218-927-7342
aitkinpz@co.aitkin.mn.us

Subsurface Sewage Treatment System Operating Permit

PERMITTEE NAME	<u>Stuart & Lynn Mittelsteadt</u>	OPERATING PERMIT#	<u>OP 239-2019</u>
MAILING ADDRESS	<u>22443 Cedar Lake Drive, Aitkin, MN 56431</u>	APPLICATION #	<u>App-2024-000502</u>
PROPERTY ADDRESS	<u>22443 CEDAR LAKE DR AITKIN, MN 56431</u>	PARCEL #	<u>07-0-014202</u>
SYSTEM TYPE	<u>Type 4</u>	DATE ISSUED	<u>2019-05-31</u>
TREATMENT LEVEL	<u>A</u>	EXPIRATION DATE	<u>2024-09-30</u>
SYSTEM DESIGN FLOW (GPD)	<u>600 gpd</u>		
RESIDENTIAL/COMMERCIAL	<u>Residential</u>		

SYSTEM COMPONENTS

Existing seepage bed will be brought into compliance by adding pre-treatment. A Multiflo aerobic treatment tank will be installed. It will gravity from the house into the 630 gal side of a new 1860 combo tank. It will be time dosed by a screened effluent pump into the Multiflo and gravity to a 1200 tank and dosed into the existing bed which will be pressurized. Number of bedrooms-4 with flow of 600 gal per day. Anticipated life of system = 20-30 years with good maintenance and use.

SERVICE PROVIDER Ritter Sewer and Excavating Inc

MONITORING REQUIREMENTS

Parameter	Effluent Limits	Frequency	Location	
*Design Flow (gpd)	600 gpd	Monthly	Water Meter	✓ good
Fecal Coliform Bacteria (#/100mL)	10,000	Annually	Aerobic Tank Effluent	✓ good

MAINTENANCE REQUIREMENTS

System Component	Maintenance	Frequency	
*Septic Tank/Trash Tank	Sludge and scum level	Annually	✓ good
*Pump Tank and Controls	Components and settings	Annually	✓ good
*Soil Treatment and Dispersal	Check for surface discharge, vegetative cover	Annually	✓ none
Advanced Treatment Product	Multi-Flo Function	Annually	✓ good

MONITORING PROTOCOL

Orl Jite Mark P Ritter Sept. 27. 2024

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. Results shall be submitted to the permitting authority at: Aitkin County Environmental Services, 307 2nd St NW, Room 219, Aitkin, MN 56431 no later than the expiration date listed.

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 Aitkin County Environmental Services 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

AUTHORIZATION

Aitkin 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, attached Management Plan and contract with the Service Provider/Inspector.

This permit is effective on the issuance date identified above. This permit and the authorization to treat and disperse wastewater shall expire on the expiration date identified above. The Permittee is not authorized to discharge after the above date of expiration. The Permittee shall submit monitoring information on forms as required by Aitkin County Environmental Services no later than thirty (30) 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 or Inspector 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 or Inspector business prior to the issuance of this operating permit. The owner has secured the services of Ritter Sewer and Excavating Inc as the Service Provider or Inspector for this system. The Service Provider or Inspector is hereby authorized to provide the required monitoring data and routine maintenance service records to both Aitkin County Environmental Services.

[For systems that generate high strength wastewater, the following items should be added to the operating permit: 'If there is a change of use within the facility (i.e., change in menu, increase in food capacity, change in water use

fixtures, etc.), the permittee is required to notify Aitkin County Environmental Services and the Service Provider before any changes occurs. Changes to the facility that could potentially impact performance of the wastewater treatment and dispersal system shall not take place until appropriate evaluation has been completed.']

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 Aitkin 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. 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 operating permit.

THE OPERATING PERMIT IS HEREBY GRANTED TO:

PERMITTEE	<u>Stuart & Lynn Mittelsteadt</u>	DATE	<u>2024/02/15 03:00 PM</u>
PERMITTING AUTHORITY	<u>Shannon Wiebusch</u>	DATE	<u>2024/02/15 03:01 PM</u>