

SEPTIC SYSTEM REVIEW FOR  
Ronald Kruger  
Operating Permit# 2  
Parcel # 29-1-500300

Property located in Shamrock Township

July 11, 2016

We have been contracted to do the Maintenance & Monitoring on the above system, the system has a 2 compartment septic tank 1,820 gallons, a 1,000 gallon lift tank that is time dosed to an 10'x30' sand filter that treats sewage before it's pumped into a 10'x25' rock bed mound with only 24" of separation. The operating standards show only flows and separation need to be looked at. But after talking with the zoning office about this they would like BOD5, TSS and FECAL tested also.

The above mentioned property has a water meter installed on it. On June 1- 2015 the meter reading was 445,150. On June 1-2016 the meter reading was 461,120 with a difference of 15,970 gallons. With 15,970 gallons divided by 365 days =44 gallons per day average.

The system is set up for 300 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.

1048

**A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM**

10x30' SANDFILTER, 1830 SEPTIC TANK, 1000 GAL PUMPTANK, 10x25 MOUND WITH A 34x49' Sandbase

**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 reuslts must be found within the compliance limits.

PARAMETER	COMPLIANCE LIMIT	SAMPLE LOCATION	SAMPLE FREQUENCY	SAMPLE TYPE	REPORTING FREQUENC
Flow	300 gpd	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY
Separation	2' feet	Dispersal System	ANNUALLY	Measure in Field	ANNUALLY

*see attached*  
*good*

**C. MAINTENANCE REQUIREMENTS:**

PARAMETER	LOCATION	FREQUENCY
Flow	Water Meter	MONTHLY
Pressurization of Laterals	Sand Filter	ANNUAL
Pumps, Floats & Alarms	Pump Chamber	ANNUAL
Solids Removal & Water Tightness	Septic tank(s)	ANNUAL
Vegetative Cover	Dispersal System	ANNUAL

*see attached* ✓  
*good* ✓  
*good* ✓  
*Fall 2015* ✓  
*grass good* ✓

**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 56431

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 and 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 ~~Jarid Foley~~ *Mark P Riffe*

*2014*

## Analysis Report

June 21, 2016

**REPORT TO:**  
RITTERS SEWER & EXCAVATING

34753 390TH PLACE  
AITKIN MN 56431-

**INVOICE TO:**  
RITTERS SEWER & EXCAVATING

MARK RITTER  
34753 390TH PLACE  
AITKIN MN 56431-

Date Sampled: 6/15/2016  
Time Sampled: 09:30  
Date Rcvd-Brnd: 6/15/2016  
Time Rcvd-Brnd: 15:37

Sampled by: MARK RITTER  
Sample Type: WW  
Recv Temp °C: 5.2

**LOCATION:**  
RON KRUGER

SITE / ANALYTE	Analyzed Value	MCL	Analytical Method	Analysis Date/Time	Analyst	Code #
<b>SAND FILTER VAULT</b>						
BOD (5 DAY), MG/L-C	LESS THAN 2.0*		SM 5210 B-01 online	6/16/2016 11:55	LR	39390B
FECAL COLIFORM, COLONIES/100 ML-C	10		SM 9222 D (m-FC)- 97 online	6/15/2016 16:20	LR	39390B
RESIDUE, NONFILTERABLE (TSS), MG/L-C	8.40		USGS I-3765-85	6/16/2016	LR	39390B

\*RESULTS ARE AN ESTIMATE. SAMPLE DILUTIONS DID NOT MEET DEPLETION REQUIREMENTS

Approved By:   
Sara Ahlers, Laboratory Director

Date Approved: 6-21-16

A.W. Research Laboratories is Certified by the Minnesota Department of Public Health and follows approved methods and procedures. Minnesota Laboratory Certification # 027-035-135. All data generated using certified methods noted as -C, all data generated using non-certified methods noted as -NC, and all analyts for which certification 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. Under the Safe Drinking Water Act (SDWA), EPA sets legal limits on the levels of certain contaminants in drinking water-these limits are indicated as Maximum Contaminant Levels of MCL on the report.

~End of Analysis Report~

**AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING**

**209 Second Street, NW Room# 100**

**Aitkin, Minnesota 56431**

PH: (218) 927-7342

FX: (218) 927-4372



✓

3/17/2016

*Jemy Farley not  
service provider*

RONALD KRUGER  
8388 LOWER 138TH CT  
APPLE VALLEY, MN 55124-

Re: Operating Permit # 2  
Zoning Permit #26569  
Parcel ID#29-1-500300

Dear Permittee:

*Sand filter & mound  
w/ 1 ft sandbase for 2 hr*

This letter is to remind you that the Operating Permit for the septic system at the above mentioned parcel is due for renewal this year. The enclosed Operating Permit was issued as part of the permit for your septic system and must be renewed.

The Operating Permit for the current renewal period has been enclosed. If there are no changes to the Operating Permit, please submit the following to the County Office:

- the signed Operating Permit Contract
- the \$100 permit renewal fee
- the results of performance and maintenance activities
- a table of your water usage

We have checked all boxes above for information we have received. Please note, only complete applications will be accepted.

If your designer finds the system is operating in conformance with the Operating Permit, please have him/her submit a letter requesting to have the Operating Permit renewed for a longer period or to request terminating the Operating Permit. Our Office will determine if this is possible.

The performance and life expectancy of this septic system is dependent on regular monitoring and maintenance of all parts of the system. Your compliance with the Operating Permit will ensure continued performance of the system. Failure to perform the monitoring and maintenance of this system could cause costly repairs and/or replacement of this system. In addition, failure to comply with the monitoring, maintenance and reporting of the septic system is a violation of the Aitkin County's Subsurface Sewage Treatment System Ordinance and could be prosecuted by the County Attorney's Office.

All information required must be submitted to this Office by the expiration date referenced on your Operating Permit. We are notifying you to give you sufficient time to contact your designer and make any necessary changes, have samples taken and tested, tanks pumped, and any other activities that were required to meet the requirements of your permit.

Please contact our office with any questions regarding the renewal of this permit.

Sincerely,

Aitkin County Planning & Zoning

**AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING**  
**209 Second Street, NW Room# 100**  
**Aitkin, Minnesota 56431**

PH: (218) 927-7342  
FX: (218) 927-4372



7/18/2016

Re: Operating Permit #2  
Zoning Permit # 26569  
Parcel #29-1-500300

RONALD KRUGER  
8388 LOWER 138TH CT  
APPLE VALLEY, MN 55124-

Dear Permittee:

This letter is to inform you that your Operating Permit has been renewed until 5/31/2021 and the Operating Permit renewal period has been moved to a 5 YEAR based on the recommendation from your Operating and Maintenance provider.

Please adhere to your monitoring and maintenance contract including monitoring your water use. Failure to do so would violate the agreement to operate your system and could void the operating permit. You should contact your Operation and Maintenance provider directly with questions that you may have during the year.

Thank you for your good stewardship and we hope that your system continues to operate well, protecting groundwater for you and the environment.

Sincerely,  
*Kaleas*  
Aitkin County Planning & Zoning

# AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

307 Second St NW Room# 219

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



4/6/2021

RONALD KRUGER  
8388 LOWER 138TH CT  
APPLE VALLEY, MN 55124

Re: Operating Permit # 2  
Zoning Permit #26569  
Parcel ID#29-1-500300

Dear Permittee:

This letter is to remind you that the Operating Permit for the septic system at the above mentioned parcel is due for renewal this year by May 31st . The enclosed Operating Permit was issued as part of the permit for your septic system and must be renewed.

The Operating Permit for the current renewal period has been enclosed. If there are no changes to the Operating Permit, please submit the following to the County Office:

- 8-18-21
- the signed Operating Permit (enclosed)
  - \$150 permit renewal fee (\$200 fee after May 31st)
  - the results of performance and maintenance activities
  - a table of your water usage

We have checked all boxes above for information we have received. Please note, only complete applications will be accepted.

If your designer finds the system is operating in conformance with the Operating Permit, please have him/her submit a letter requesting to have the Operating Permit renewed for a longer period or to request terminating the Operating Permit. Our Office will determine if this is possible.

The performance and life expectancy of this septic system is dependent on regular monitoring and maintenance of all parts of the system. Your compliance with the Operating Permit will ensure continued performance of the system. Failure to perform the monitoring and maintenance of this system could cause costly repairs and/or replacement of this system. In addition, failure to comply with the monitoring, maintenance and reporting of the septic system is a violation of the Aitkin County's Subsurface Sewage Treatment System Ordinance and could be prosecuted by the County Attorney's Office.

All information required must be submitted to this Office by the expiration date referenced on your Operating Permit. We are notifying you to give you sufficient time to contact your designer and make any necessary changes, have samples taken and tested, tanks pumped, and any other activities that were required to meet the requirements of your permit.

Please contact our office with any questions regarding the renewal of this permit.

Sincerely,

Aitkin County Planning & Zoning

Invoice #53556 (08/18/2021)

2. Zoning/Land Use Permit Applications Misc. (OFFICE USE ONLY) App. # App-2021-007950, UID # 203715

Ronald Kruger

(218) 927-7342

8388 Lower 138th CT, Apple Valley, MN 55124

Aitkin County Planning & Zoning / Environmental Services

307 Second St. NW Room 219

Aitkin, MN 56431

Phone: 218-927-7342

Fax: 218-927-4372

Email: aitkinpz@co.aitkin.mn.us

Charge		Cost	Quantity	Total	Note
Operating Permit Renewal added 08/18/2021 2:08 PM \$150		\$150.00	x 1	\$150.00	
<b>Grand Total</b>					
				<b>Total</b>	<b>\$150.00</b>
<b>Payment #48585</b>					
<b>Method:</b>	Check		15780		
<b>Date:</b>	08/18/2021	<b>Note:</b>	OP#2 2021 renewal		
<b>Made By:</b>	Ronald Kruger				
<b>Confirmed By:</b>	Shannon Wiebusch				

SEPTIC SYSTEM REVIEW FOR  
Ronald Kruger  
Parcel # 29-1-500300  
Operating permit #2

Property located in Shamrock Township

July 01, 2021

The above mentioned property has an elapsed timer installed on it. On June 2016 the meter reading was 42,370. On May 2021 the meter reading was 43,824 with a difference of 1,454 min. So at 1,454 min. by 60 gallons per min. = 87,240 gallons divided by 1,795 days = 48 gallons per day average.

The system is set up for 300 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.