# Subsurface Sewage Treatment System Operating Permit Application

Use this form to apply for an operating permit.

\* Indicates required field

# Aitkin County Environmental Services Planning & Zoning

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

Facility Information	n:					а	itkinpz@	co.aitkin.m
*Permittee name:	ARTIN	SCHMITT	The second secon	The second second				
*Mailing address: 20	2457.	FER ST *City: 1	M. Tu	. 1	*01-1-	1 1		1-1 /1-
*Email: \(\Omega\)		JULY OI.	MIH	N	*State:	MN	*Zip:	5643
	TIMITUC	153@gmail.(	10m 1	Phone:	952	.90	1.24	1,4
*Parcel ID:	24-D-	0110800		The second secon				Le I
Property address:	Same	E AS ABOVE		A CONTRACTOR OF THE PARTY OF TH	and the second s			
*System type:	TUDE	III Mounn		Treatment le	The state of the s			
*System design flow (gpd	1): 450	am mound				0	, 1	01
*System components:		Jta	90.40	Residential/	Commerci	al:   Me	'S10e	1 Ha
Service Provider:	The Control of the Co	· ·		and the state of t	end of adaptive and	The second of th		
*Name:	TEL	BRUMER		*Signo	ed Contrac	. M		Make year of a program of the design of the program of the control
erd ner venerag grin fil gibbergen fil gibbergen igkegen gere dississis av en i typen fil sinder en en en gest kan en en gest kan en	JULI	Character	Street, and the street, and th	Signe	o Contrac	t: X	Yes	L No
Monitoring Requirem	ents:							
Parameter		Effluent limits	Frequenc	cv.		oneties.		
*Design flow (gpd)		450		MONTHLY		Location		
Average flow (gpd)			, .0.01	11 6/		EVENT	LUU!	UTER
*Ponding/Surfacing in soil	treatment	NONEALLOWED	AMM	ALLY		00 0100		
CBOD <sub>5</sub> (mg/L)			7. 010	7.400		MOU	W)	
TSS (mg/L)								
FO&G (mg/L)								
Fecal Coliform bacteria (#/								
Total Nitrogen, Total Phos (mg/L)								
Operational Field Tests, m	ay include:				-			
Temperature, Dissolved On Nonitoring Requirement	xygen and pH	Fields						
and ite quit chich	.3 COMMENT I	rieid:						
laintenance Requirer	ments:							
laintenance requirements s	hall be perform	ned as specified in the May		51	as and Moor			
System component	P	Maintenance	nagement i	Jan as prep			s Designe	er.
external grease interceptor		manitenance		Fred	Frequency			
Septic tank/Trash tank		CHECK						
Pump tank and controls		CHECK COMPONENTS			ANNUALLY			
ffluent screen		CHECK COMPONENTS CHECK + CLEAN			ANNUALLY			
Advanced treatment produc	et e	CILON I ULL	MIN		15	I. I. A	WNV)	ALLY
JV light disinfection device	-				·			
Soil treatment and dispersa	al	INSPECT FOR	Dona	.)/_		-	1.7/	
poroc		- 401 CO1 101	POUDZ	V.G	AA	MOUNC	١Ľ	

## **Monitoring Protocol**

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 2<sup>nd</sup> 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 and term 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 and maintenance information on forms as required by Aitkin County Environmental Services prior to the above date of expiration for operating permit renewal. If not renewed within ninety (90) calendar days of the expiration date, it may be required that the system be abandoned in accordance with MN Rule 7080.2500. This permit is not transferable as to person or place.

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 (named above) as the Service Provider or Inspector for this system through a signed contract. 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.

*Permittee Name: (Print):	Martin Schmitt	
*Title:	Owner	*Date: 9/8/2/24
*Permittee Signature:	Mut Slight	

# Instructions for Completing an Operating Permit

The following instructions provide an explanation for local units of government to complete the operating permit template. This is intended to provide guidance to local units of governments (LGU) in developing operating permits for Type III, Type IV and Type V systems, including both residential and commercial systems. The template could be modified for holding tanks or any other system. Since the Management Plan is considered part of the operating permit, it needs to be attached to the operating permit. A signed contract, between the owner and Service Provider, should be attached to the operating permit to help ensure the owner has made the necessary arrangements to have the system maintained and monitored.

Wastewater Treatment and Dispersal Operating Permit No. – Aitkin County will assign an operating permit number to be able to track the system over the years.

**Issuance Date** – fill in the date the operating permit is issued. The operating permit should not be issued until all required information is submitted.

Expiration Date – fill in the date when this operating permit expires. The first time an operating permit is issued to an owner, it should be issued for one (1) year. This helps ensure the owner actually does the required maintenance and monitoring during the first year. If the owner complies, the operating permit can then be issued for a longer period of time as determined by the local unit again, be issued for a period of one (1) year.

Permittee Name, Business Name, Telephone Number, and Address – fill in the name, address, email and phone number of the owner. If this is a business, fill in name of the business, too.

Property ID Number – these are simply identifiers used by local units of government in the event the property address changes over time.

System Type - fill in as Type III, Type IV or Type V system. Holding tanks may also be issued operating permits (Type II system).

**Treatment Level** – specify Treatment Level A, A2, B, B2, C, TN or TP. Treatment Level A = Carbonaceous Biochemical Oxygen Demand, five day (CBOD₅) 15 milligrams per liter (mg/L), Total Suspended Solids (TSS) 15 mg/L, Fecal Coliform Bacteria 1000 per 100 milliliter (mL); Treatment Level A2 = CBOB₅ 15 mg/L, TSS 15 mg/L; Treatment Level B = CBOD₅ 25 mg/L, TSS 30 mg/L, TSS 30 mg/L, TSS 30 mg/L, TSS 60 mg/L, Oil and Grease (O&G) 25 mg/L; Total Nitrogen (TN) = 20 mg/L or less, or Total Phosphorus (TP) = 2 mg/L or less.

System Design Flow – fill in the design flow specified on the construction permit for the system, along with the projected average daily flow for the system. Average daily flow is generally 60 to 70 percent of design flow.

Residential/Commercial – specify if the system is residential or commercial. You may specify additional information, such as classification of dwelling, number of bedrooms; or type of commercial establishment.

System Components – provide a brief description of the system components. An example would be the following: 600 gallon trash tank, 600 gallon Brand X proprietary treatment device, 1 Brand Y Ultra Violet (UV) light disinfection unit, 500-gallon pump tank, pump, floats and controls, and 250-foot shallow trenches using pressure distribution.

### Monitoring Requirements (Table)

The monitoring requirements specified in an operating permit are unique to the site and soil conditions of the property (its environmental sensitivity) and system complexity. The monitoring requirements include specific parameters to be monitored, target limits and the frequency and location of monitoring. The monitored parameters, at a minimum, would include: 1) wastewater flow the most basic parameter to know in understanding system performance, 2) ponding/surfacing in the soil treatment system. Monitoring for CBOD<sub>5</sub>, TSS, fecal coliform bacteria and nitrogen are unique to the site, its receiving environment and complexity of the wastewater system. Field tests for temperature, pH and dissolved oxygen can be performed by the Service Provider to serve as general indicators of system performance.

- Flow flow to each system needs to be determined as specified in the Management Plan or as determined by the local
  unit of government. Flow can be determined several ways, using water meters, event counters, and running time clocks.
   Telemetry can also be used and has the advantage that flow can be determined continually.
  - The determination for the frequency of flow measurement is done on a case-by-case basis. At first, daily flow monitoring may be needed to determine average flow and peak flows to a system. After a period of time, weekly or monthly flow determination may be acceptable. Flow determinations once a year generally provide limited information.
- 2. CBOD<sub>5</sub> monitoring for CBOD<sub>5</sub> is not typically required for the majority of wastewater systems used for single-family homes generating typical domestic strength effluent. However, monitoring for CBOD<sub>5</sub> may be needed periodically. For example, there may be a need to audit systems as part of the product registration process in Minnesota or if the Service Provider is trying to troubleshoot a system. For commercial systems, monitoring for CBOD<sub>5</sub> is generally necessary to determine CBOD<sub>5</sub> removal efficiencies of proprietary treatment devices and/or organic loading rates to the soil's infiltrative surface.
- 3. TSS monitoring for TSS is not typically required for most residential wastewater systems that generate typical domestic strength effluent. However, turbidity measurements may be taken in the field by Service Providers. Monitoring for TSS may be needed periodically as part of an audit process for the registration of proprietary treatment products in Minnesota. For commercial systems, monitoring for TSS may be necessary.
- 4. O&G monitoring for Oil and Grease (O&G) is not typically required for most residential wastewater systems; however, it is an important parameter to monitor for facilities that have food preparation and service and for residences that generate high strength wastewater.

- Fecal Coliform Bacteria monitoring for fecal coliform bacteria should generally be required for systems listed as Treatment Level A and Treatment Level B systems where reduced vertical soil separation is used.
- 6. **Total Nitrogen and Total Phosphorus** monitoring for Total Nitrogen (TN) may be needed in areas identified as nitrogen sensitive environments. Monitoring for Total Phosphorus (TP) may be required in phosphorus sensitive lake environments.
- 7. Operational Field Tests these are tests performed by the Service Provider to help 'monitor' system performance and identify problems (troubleshooting a system). Although field tests are not a strict monitoring requirement, they are appropriate to list in the operating permit if specified in the Management Plan or in the product's Operation and Maintenance Manual. The local unit of government will determine if the permittee is required to report field test results as part of the operating permit.
- Ponding/Surfacing in Soil Treatment all systems should be monitored periodically as specified in the Management Plan to determine extent and frequency of ponding in soil treatment systems. A check for surfacing is needed.

### Maintenance Requirements (Table)

This table lists some of the basic maintenance requirements for each major component of the wastewater system. Since you can't possibly list all the maintenance requirements in this table, it is best to reference the Management Plan. You could also reference the proprietary products Operation and Maintenance Manual.

- System Component list each system component, including the external grease interceptor, septic tank, trash tank, surge tank, effluent screen, pump tank and controls, proprietary treatment product, disinfection device, and soil treatment and dispersal system.
- Maintenance briefly identify the maintenance requirements of each major system component. For additional information, you could also reference the proprietary product documents listed on the MPCA website at <a href="http://www.pca.state.mn.us/programs/ists/productregistration.html">http://www.pca.state.mn.us/programs/ists/productregistration.html</a>.
- Frequency briefly identify the frequency of maintenance as per the systems Management Plan and Operation and Maintenance Manual.

Monitoring Protocol – this section of the operating permit states that testing needs to be performed in accordance with approved methods and the results submitted to the: 1) local unit of government and 2) manufacturer within a specified time frame. Fill in the name and address of both entities in the spaces provided.

Contingency Plan – this briefly describes requirements if the system does not function as intended. The owner must notify the local unit of government within thirty (30) days of receiving non-compliant information. The Management Plan may identify some of the corrective actions required or the permittee will need to consult their Service Provider. The owner is responsible to obtain the services of a MPCA-licensed Service Provider or other qualified practitioner to complete the required corrective measures. More detail could be added here by the local unit of government.

Authorization -Note that this permit is not transferable.

Next, fill in the name of the Service Provider in the next space; the owner is required to identify who the MPCA licensed Service Provider will be (in a contract). This is needed to ensure the owner has made the necessary arrangements to have the system maintained and monitored.

The Service Provider is authorized to provide monitoring data and routine maintenance service records directly to the local unit of government and to the manufacturer of the treatment product. For systems generating high strength wastewater, the following 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 the local unit of government and the Service Provider before the change(s) 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.

The final paragraph contains a general indemnification statement. The permittee is reminded that this permit is not transferable and that a new operating permit would be needed by a new property owner.

Signature of Permittee (and date of signature) - the owner signs and dates the operating permit.

# MAINTENANCE SERVICE, MONITORING AND INSPECTION CONTRACT

# FOR SUBSURFACE SEWAGE TREATMENT SYSTEM OPERATING PERMIT

	PERMII
1	Aitkin Co. PID # 24-0-16800
1	t is hereby agreed this day of, by and between
-	Brummer Septic LLC. (Inspector) and Martin Schmitt (client)
J	leff Brummer
(	Client) Name Martin Schmitt
S	Site Address38457 Deer St. Aitkin Mn 56431
C	City, State, Zip
T T	That in consideration of the payments provided herein, the Inspector shall provide services to erform Preventative Maintenance, Monitoring and Inspection of the Subsurface Sewage Treatment System (SSTS) located at the property described in the Aitkin County Operating termit.
pi	ach inspection includes an examination of the SSTS followed by a written report to the client. This inspection report shall contain recommendations for operation and maintenance for failure-reventative 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 eport to the Aitkin County Environmental Services Department.
16	his contract does not assume any responsibilities or obligations, which are normally the esponsibilities of the Client, as related to parts or labor and does not extend to cover any costs at may be associated with any recommendations made under this contract.
m	he Inspector can only contract or subcontract for parts or labor after authorization. Billings for ervice calls shall be made on a case by case basis. This contract only covers maintenance, onitoring and inspection services per current Aitkin County Operating Permit and does not over alarm calls of any kind.
Ti	he Inspector shall be provided access to the site and the system in order to perform the sllowing services:
(0	Check the boxes needed to fill the requirements of the Operating Permit)
S	EPTIC TANK AND LIFT STATIONS INSPECTION
	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.
Owner>	Record and date the readings of the elapsed time meter and event counter(s).
	Owner is respondsible for recording the event counter or water meter once a month

Operating Permit Maintenance Contract Page 2 of 3			
Check dosing settings (in the control panel, if applicable).			
Other:			
PRETREATMENT DEVICE			
Inspect pretreatment unit (aerobic tank, sand filter, etc.) per manufacturer's recommendation.			
Inspect and clean any parts per manufacturer's recommendation.			
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,			
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 At time of Certification of Compliance Installation			
and Ending,			
Cost for Maintenance Service, Monitoring and Inspection Contract is:			
\$ /vr. For years totaling \$ To be Determind at time of service			

Operating Permit Maintenance Contract Page 3 of 3

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 At 1st inspection and every one after

Client:			Inspector:
Sign:		Sign:	Jeff Brummer
Print:	Martin Schmitt	Print:	Jeff Brummer
Date:		Date:	8/8/2024

Brummer Septic LLC. 218-821-0704 14650 Agate Ridge Rd Brainerd MN 56401 brummerseptic@gmail.com