

ZONING PERMIT APPLICATION

(please do not write in shaded areas)

DATE	APPROVED	DENIED	PERMIT# <u>27087</u>
NAME <u>Larry Roseanne Tolletson</u>	TELE# <u>218-678-3216</u>	PARCEL# <u>11-1-097100</u>	RECEIPT# <u>1610</u>
MAILING ADDRESS <u>Rt 2 Box 2 P.O. Box 465 Aitkin, MN</u>	TOWNSHIP <u>Hazelton</u>	CONFORMING SEPTIC YES P# _____ NO <u>NEW</u>	
LEGAL DESCRIPTION <u>Lot 20 of Plat of 101 Wild An & Part of</u>	SEC <u>21</u>	TWP <u>45</u>	RGE <u>29</u>

ZONING DISTRICT & FLOOD PLAIN

ZONING DISTRICT S/L

LAKE/STREAM/RIVER NAME Big Pine

LAKE/RIVER ID NUMBER RD

LAKE/RIVER/STREAM CLASSIF. 1-0157

PARCEL LOCATED IN FLOOD PLAIN? Y _____ N X

10/100 YR FLOOD ELEVATION _____

LOWEST FLOOR ELEVATION _____

ELEV. CERTIFICATE REQUIRED Y _____ N X

BEFORE CONSTRUCTION Y _____ N X

AFTER CONSTRUCTION Y _____ N X

STRUCTURE SETBACK DISTANCE REQUIREMENTS

(Measure from eaves or overhang)

OHW TO LAKE/RIVER/STREAM per Variance 35'

PROPERTY LINE SETBACK 10'

SETBACK TO ROAD R-O-W 25' per Variance

SETBACK TO BLUFF N/A

SEPTIC SYSTEM SETBACK DISTANCES

SETBACK TO STRUCTURES 10' Tank

OHW TO LAKE/RIVER _____

PROPERTY LINE SETBACK _____

SETBACK TO ROAD R-O-W _____

****ATTACH COPY OF ELEVATION CERTIFICATES****

(circle) RESIDENTIAL COMMERCIAL ACCESSORY NEW BUILDING ALTERATION

DATA FOR BUILDING CONSTRUCTION: CONTRACTOR _____

SIZE OF ALL BUILDINGS COVERED BY THIS APPLICATION 20' x 24' addition + Holding Tank

COMMENTS: per Variance 2/6/19, 3 conditions Guest house changed to storage, addition to not encroach on lake further than existing.

DATA FOR SEWER CONSTRUCTION: INSTALLER T. Bayle #BEDROOMS/GPD _____

SOIL BORINGS _____	SEPTIC DESIGN _____	GARBAGE DISP/HOT TUB YES _____ NO _____
PERK RATES _____	DEPTH TO RESTRICTING LAYER _____	
MIN. SIZE SEPTIC TANK _____	MIN. SIZE PUMP TANK _____	
DRAINFIELD: MINIMUM SQ. FT. _____ WITH _____ INCHES ROCK BELOW PIPE		
MOUND: MINIMUM ROCK BED SQ. FT. _____ WITH 9 INCHES ROCK BELOW PIPE		
MIN. UPSLOPE SAND WIDTH _____	MIN. DOWNSLOPE SAND WIDTH _____	END SAND WIDTHS _____
RECOMMENDATIONS: _____		

PLEASE ATTACH ANY ADDITIONAL INFORMATION TO THIS PERMIT

TOWNSHIP OR CITY USE ONLY:

RECOMMEND: APPROVAL _____ DENIAL _____ COMMENTS: _____

SIGNATURE: TOWNSHIP/CITY CLERK _____ DATE _____

The undersigned hereby makes application for permit to construct as herein specified, agreeing to do all such work in strict accordance with the Ordinances of the County of Aitkin, Minnesota; Minnesota Individual Sewage Disposal Code Minimum Standards set forth by Minnesota Department of Health; and Shoreland Management Standards set forth by Minnesota Department of Natural Resources. Applicant agrees that plot plan, sketches and specifications submitted herewith and which are approved by the Zoning Official, shall become a part of the permit. **APPLICANT FURTHER AGREES THAT NO PART OF THE SEWAGE SYSTEM SHALL BE COVERED UNTIL IT HAS BEEN INSPECTED AND ACCEPTED.** It shall be the responsibility of the applicant for the permit to notify the Zoning Office (at least 24 hours in advance) that the septic system is ready for inspection.

Larry Tolletson \$ 275.00 Kim 7/25/18

SIGNATURE APPLICANT/AGENT FEE RECEIVED BY DATE

EXPIRES IN ONE YEAR
Aitkin County Zoning, Courthouse — AITKIN, MINNESOTA 56431 — Telephone 218/927-7342

Hold Tank Pumping Service Agreement

Permit# 27087 Address (X) RR2 Box 465 Aitkin

This Agreement, entered into by and between AITKIN (County/City) and registered Septic Tank Pumper, BITTERS, RITTER, INC., hereinafter referred to as "Contractor", and LARRY TOLLEFSON hereinafter referred to as "homeowner".

WHEREAS, Homeowner desires and is required to retain individual sewage treatment system holding tank services to protect the environment and to obtain a certificate of compliance from County/City listed above and

WHEREAS, the Contractor desires to provide sewage treatment systems pumping services to Homeowner as necessary and in accordance with the terms and conditions outlined herein.

NOW THEREFORE, in consideration of the mutual promises contained herein, Parties of hereby agree as follows:

1. **TERM:** The term of this Agreement shall be from (X) to final installation of an approved sewage treatment system or connection to a Municipal Sewage Treatment System. unless earlier terminated as provided herein. The parties understand and agree that this Agreement is intended to arrange for the provision of pumping services so that Homeowner may occupy a seasonal dwelling pursuant to a certificate of compliance to be issued by the County/City listed above environmental Services Department upon execution of this Agreement. Upon approval by the County/City listed above of an individual sewage treatment system, connections to a municipal sewer, or Homeowner entering into an Agreement with another MN.State Registered Septic Tank Pumper, this Agreement shall terminate.

2. **FREQUENCY OF PUMPING:** Homeowner agrees that he/she shall not allow the holding tank to overflow or discharge in any manner. Contractor and Homeowner agree that the holding tank shall be pumped within 24 hours of indication of lack of capacity by a mechanical indicator. A FLOAT INDICATOR WILL BE INSTALLED AND HOMEOWNER WILL CALL

3. **REPORTING:** Grievances of Homeowner or Contractor shall be reported to the County/City listed above Environmental Services Department by Homeowner or Contractor. Homeowner and Contractor understand that failure to have holding tank pumped as herein specified or the discharge of any contents from the holding tank, regardless of fault, may result in the suspension, cancellation or revocation of the certificate of compliance, and the homeowner may be required to vacate the premises.

WHEN NEED PUMPING

Nancy Douglas Ritter & Pumper Contractor Larry Tollefson Homeowner
7-25-00 Date 7-25-00 Date

FIELD EVALUATION SHEET

PRELIMINARY EVALUATION DATE 7/15/00, FIELD EVALUATION DATE 7/15/00
PROPERTY OWNER: HARRY FOLLETSO PHONE _____
ADDRESS: _____ CITY, STATE, ZIP: _____
LEGAL DESCRIPTION: _____
PIN# _____
FIRE# _____ LAKE/RIVER Big Pine Lake SEC _____ T _____ R _____ TWP NAME HAZLETON
LAKE CLASS RD OHWL _____ FT.

DESCRIPTION OF SOIL TREATMENT AREAS

	AREA #1	AREA #2	REFERENCE BM ELEV. _____ FT.
DISTURBED AREAS	YES ___ NO ___	YES ___ NO ___	REFERENCE BM DESCRIPTION _____
COMPACTED AREAS	YES ___ NO ___	YES ___ NO ___	_____
FLOODING	YES ___ NO ___	YES ___ NO ___	_____
RUN ON POTENTIAL	YES ___ NO ___	YES ___ NO ___	_____
SLOPE %	_____	_____	_____
DIRECTION OF SLOPE	_____	_____	_____
LANDSCAPE POSITION	_____	_____	_____
VEGETATION TYPES	_____	_____	_____

DEPTH TO STANDING WATER OR MOTTLED SOIL: BORING# 1 _____, 1A _____, 2 _____, 2A _____
BOTTOM ELEVATION—FIRST TRENCH OR BOTTOM OF ROCK BED: #1 _____ FT., #2 _____ FT.
SOIL SIZING FACTOR: SITE #1 _____, SITE #2 _____

CONSTRUCTION RELATED ISSUES: No Room for a sewer system -

IC# 1299 SITE EVALUATOR SIGNATURE: Glenn M Boyd
SITE EVALUATOR NAME: Glenn M Boyd TELEPHONE# 678-2531

LOG REVIEW _____ DATE _____

Comments: 2 Bedroom House 350 x 5 = 1750 capacity for holding tank

SOIL BORING LOGS ON REVERSE SIDE

PROPERTY OWNER SIGNATURE _____ DATE _____

APPROVED

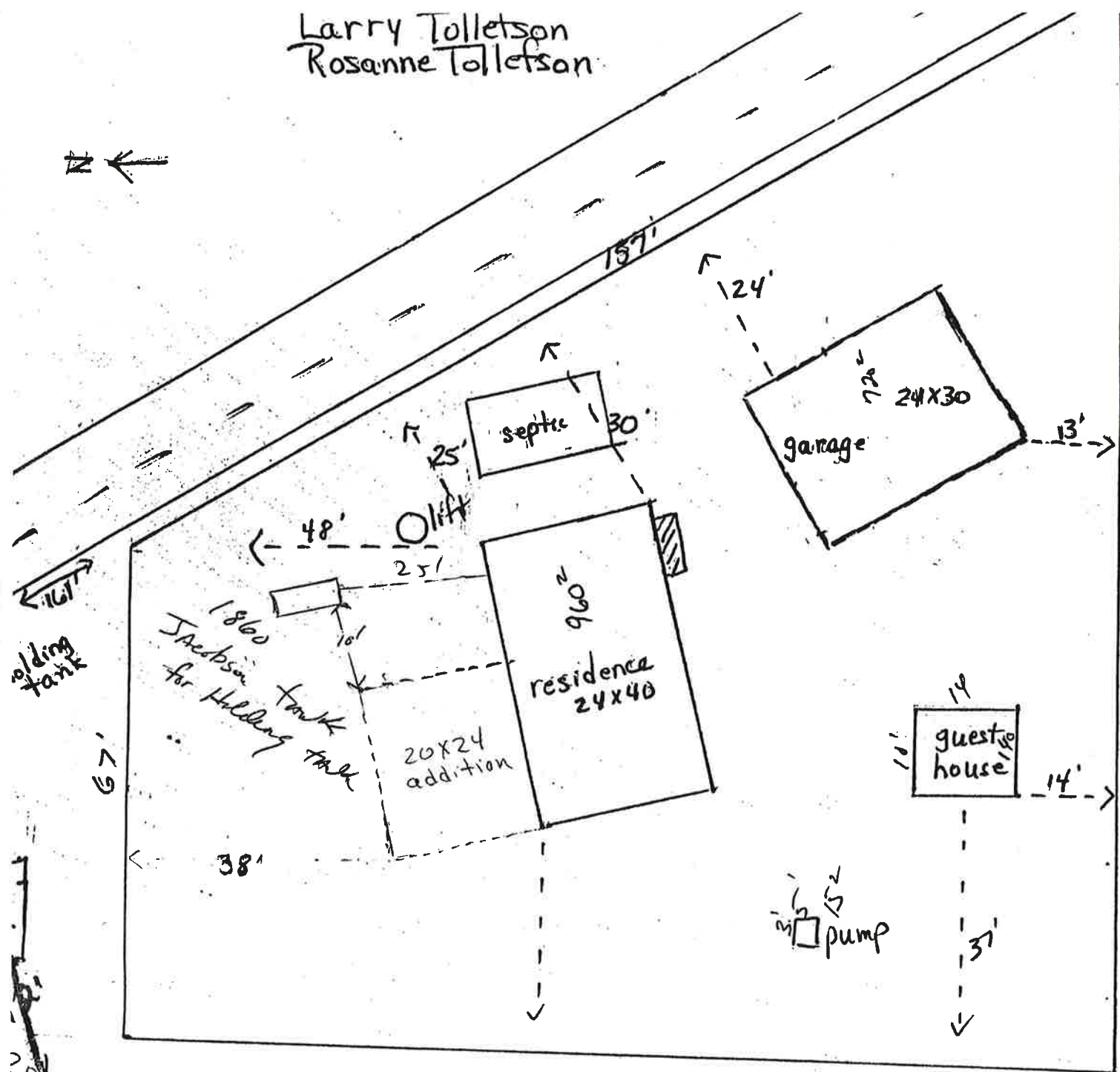
ONSITE INSPECTION
 NO ONSITE INSPECTION

SIGN GM DATE 7/24/00

Larry Tolletson
Rosanne Tolletson

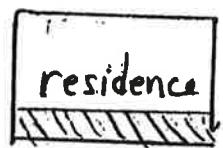
Lot Area = 148.5 x 108 = 16038 sq ft = 4009 sq rods

Home =
 Driveway = 720
 Septic = 250
 Garage = 720
 Guesthouse = 140
 Pool = 15
 Residence = 960 = 2305
 Addl = 480 = 3285



149'

350'



Jeff Gorham

53'

(St. Cloud
1-800-444-2371)

20' Landris

5' of rock Big Pine added to shore (OK'd by DNR)

Re-inspection

AITKIN COUNTY
CERTIFICATE OF COMPLIANCE/NOTICE OF NONCOMPLIANCE

This certificate of compliance/notice of noncompliance has been issued this 23 day of July 2003 to certify compliance/noncompliance with Aitkin County's Individual Sewage Treatment System and Wastewater Ordinance No.

1. The premises covered by this certificate are legally described as: _____

Lot 20 Idlewild

Section 21 Township 45 Range 27 Lake Big Pine

PERMIT NO. 27087 Owner Name Larry Tollefson

Address 24017 - 435th Ave Aitkin, Mn 56431

Installer Name Taffy Boyd

Type of System Inspected Tex/c Filter & 1860 x 1000 pre-cast

existing mound w/ 18" separation Tanks

The certificate of compliance notice of noncompliance was based on, No. 1 of the following:

① Inspection of the installation or construction as in accordance with the above referenced permit and application design.

2) Review of as-built plans submitted in accordance with Subdivision 4.21 C. Of Aitkin County's Individual Sewage Treatment System and Wastewater Ordinance No. 1.

If the above permitted individual sewage treatment system is in noncompliance with Aitkin County's Individual Sewage Treatment System and Wastewater Ordinance No. 1, then the following shall serve as a Notice of Violation:

1) Statement of the findings of fact through inspections or investigations: _____

2) List of specific violations of Ordinance: _____

3) Requirements for correction or removal of violations: _____

4) Time schedule for compliance: _____

Failure to correct or remove the above violations will result in this matter being turned over to the Aitkin County Attorney's Office for further legal action which may result in revocation of licenses or registrations, fine's and/or imprisonment.

INSPECTOR SIGNATURE J. Fisher

INDIVIDUAL SEWAGE TREATMENT SYSTEM INSPECTION FORM AITKIN COUNTY, MINNESOTA

Township Hazelton Date of Inspection 7-23-03 Permit Number 27087
 Owner Larry Tolle Eson Parcel Number 11-1-097100
 Project Address lot 20 Idlewild; 2409-435th Ave Installer Tuffy Boyd
 City Aitkin Zip Code 56431 New Repair

SETBACKS:

Buildings to tank(s) 12'
 Buildings to drainfield 20'
 Well(s) 50' or 100' 50'
 Lake/Creek/Wetland 73'

SEPTIC TANKS:

Liquid capacity 1860 Combo
 Manufacturer & type Joe precast
 Type of baffle plastic
 Inspection pipes 1-4" - 16"
 Manholes access 1
 No. & height of risers 12"

MOUNDS:

Percent slope _____
 Upslope dike width _____
 Downslope dike width _____
 Sideslope dike width _____
 Drainfield rock below pipe _____
 Depth of sand below rock _____
 Perforation size & spacing _____
 Pipe size & spacing _____
 Dimensions of rock bed _____
 Dimensions of sand base _____
 Final cover _____

DIST. or DROP BOX & TYPE

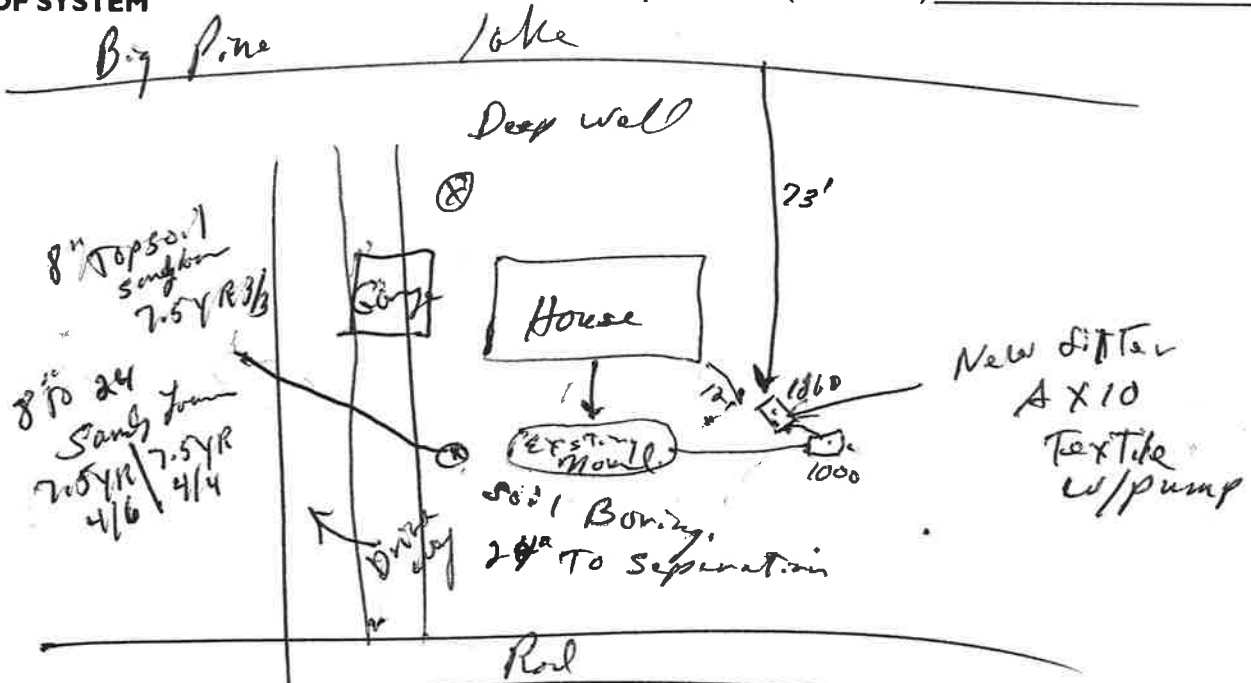
TRENCHES, BEDS, OR GRAVELLESS LEACHFIELD:

Trench depth _____
 Trench length _____
 Trench bottom width _____
 Trench bottom level _____
 Trench spacing _____
 Drainfield rock below pipe _____
 Size of gravelless pipe _____
 Depth of backfill _____
 Absorption area: square feet _____
 lineal feet _____

PUMPS:

Tank capacity 1000
 Tank manufacturer & type Joe precast
 No. & height of risers 12"
 Pump manufacturer & model# Zoller
 Horsepower & GPM 1/3
 Feet of head 8
 Cycles per day Textile filter
 Gallons per cycle w/pump.
 Size of discharge line _____
 Type of electrical hookup post
 Type & location of alarm Elec.
 Cycle counter (commercial) _____

DRAWING OF SYSTEM



Inspector's Comments _____

Corrective Action Required _____

Inspector's Signature [Signature] White-County
 Installer's Signature [Signature] Yellow-Applicant Pink-Installer

AITKIN COUNTY ENVIRONMENTAL SERVICES

**OPERATING PERMIT FOR WASTEWATER
TREATMENT AND DISPERSAL**

RECEIVED SEP 02 2003

OPERATING PERMIT #: 127
PERMITTEE: Larry Tollefson
ADDRESS: 24019 - 435th Ave.
Aitkin, MN 56431-

FEE PAID: none
PHONE: (218) 678-3296

W-1-097100

ZONING PERMIT # 27087

PARCEL #: 111097100

ISSUE DATE: 8/26/03

RENEW DATE: 12/31/04

LEGALDESCRIPTION: Lot 20 - Idlewood

Aitkin County Environmental Services authorizes the Permittee to construct, install and 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

8-29-03
Date


Signature of Permitting Authority

9-3-03
Date

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.

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 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 Mike O'Keefe

E. MITIGATION PLAN:

- 1) If weeping occur; lower dosing rate, lower water usage, increase distribution and absorption are:
- 2) A diferent or another Performance or Other System may be installed at the owner's expense. 3)
- 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:

* A WATER METER MUST BE INSTALLED BEFORE COMPLIANCE CERTIFICATE CAN BE ISSUED **

AITKIN COUNTY ENVIRONMENTAL SERVICES

APPLICATION for an OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

PERMITTEE Larry Tollefson PARCEL NUMBER U-1-097100
 ADDRESS 24019-435th Ave, Aitkin, MN 56431
 LEGAL DESCRIPTION Lot 20 ; Idlewild
 TELEPHONE # 678-3296 GIS LOCATION _____

A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM:
 (Attach ISTS site evaluation and design; estimated cost of system construction, operation, monitoring, service, component replacement, and management; anticipated system life, hydraulic and organic loading rates)

Installed 1860 Septic tank with textile filter placed on top of 1860 - 1860 textile filter goes to 1000 gal pump tank with a Zoeller 78 pump to pump to existing bedroom mound with 2' separation with a Time Dose Box

B. MONITORING PLAN AND REPORTING FREQUENCY:

PARAMETER	COMPLIANCE LIMIT	SAMPLE LOCATION	SAMPLE FREQUENCY	SAMPLE TYPE	REPORTING FREQUENCY
FLOW	300	Water Meter	Monthly	Read	Annual
5-DAY BOD	220	Pump Tank	Annual	Grab	Annual
TOTAL NITROGEN	105				
TOTAL PHOSPHORUS	30				
TSS	65	Pump Tank	" "	"	"
FATS, OILS AND GREASE	30	Pump Tank	" "	"	"
FECAL COLIFORM	50,000 10,000	Pump Tank	" "	"	"
SEPARATION DISTANCE					

if 2' separation in existing system < 10,000 coliform
O'Keefe will perform the monitoring of this septic system.

C. MAINTENANCE PLANS

PARAMETER	LOCATION	FREQUENCY
- Flow	Water Meter	Monthly
- Pumps, Float & Alarms	Lift tank	Annual
- Solids Rem.	Septic tanks	Annual
- Surface Disch	Dispersion System	Annual
- Vegetative Cover	Dispersion	Annual

D. MITIGATION PLAN:

(1) If ponding occurs due to build up of oil & grease, have biomat annual (2) if ponding problems should occur of indeterminate cause, coupled with pungent odor, it may be necessary to clean the textile media (3) If weeping occurs, lower dosing rate, lower water usage, increase distribution & absorption area (4) If OST Textile Filter experiences problems; fix or repair at recommendation of manufacturer. (5) If diff or other performance or other may be installed at the owner's expense. I hereby certify with my signature as the designer, that all data for the operating permit application is true and correct to the best of my knowledge. I agree to indemnify and hold Aitkin County harmless from loses, damages, costs and charges that may be incurred by the County because of the information submitted with this application.

Glenn M. Boyd
Signature

1299
License Number

9/24/02
Date

Glenn M. Boyd
Name (please print)

42509 282nd St
Address

218-678-2581
Telephone #

event that the system should fail if there is no other 1st option available than holding tanks, must be installed to be pumped by a licensed pumper.

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

It is hereby agreed this 19 day of June, 2003 by and between
Mike & Annette O'Keefe (Inspector) and Larry Tollefson (client)

(Client) Name & Address

Larry Tollefson

Street Address

24019 435 Ave

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. *(See attached checklist)*

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 _____, _____
and Ending _____, _____

Cost for Maintenance Service, Monitoring and Inspection Contract is:

\$ _____ /yr. For _____ years totaling \$ _____

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 _____.

Client:

Inspector:

Sign:

Larry Tollefson

Sign: _____

Print:

LARRY TOLLEFSON

Print: _____

Date:

6/17/03

Date: _____

This system is being designed for 300 gallons of water/day a new 1860 combi & 1000 gallon pump tank will be installed behind that with time dose 4 times a day ~~to~~ to ex. mound which with 2' of seps. ~~is~~. The AX10 fabric filter will be placed on top of the 1860 tank with backflow to filter is flush with ground - will need some cover in winter or will freeze. The water goes from #30 pump tank through filter then to 1000 tank - A 1/2" 90 pump is in pump tank (1000)

Alan n Boy

**INDIVIDUAL SEWAGE TREATMENT SYSTEM INSPECTION FORM
AITKIN COUNTY, MINNESOTA**

Township Hazelton Date of Inspection 7-23-03 Permit Number 27087
 Owner Larry Tulle Esq Parcel Number 11-1-097100
 Project Address lot 20 Idlewild; 2499-435th Ave Installer Tuffy Boyd
 City Aitkin Zip Code 56431 New Repair ✓

SETBACKS:

Buildings to tank(s) 12'
 Buildings to drainfield 25'
 Well(s) 50' or 100' 50'
 Lake/Creek/Wetland 73'

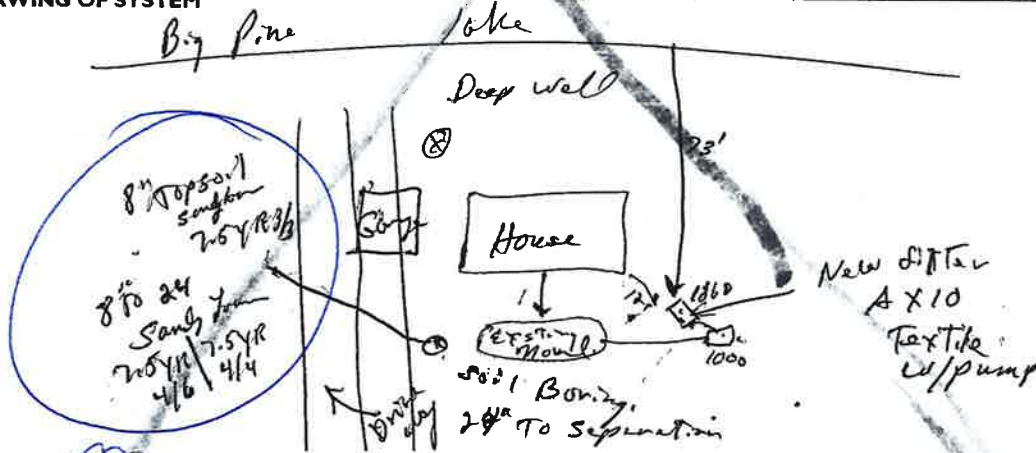
SEPTIC TANKS:

Liquid capacity 1860 Combo
 Manufacturer & type Joe pre-cast
 Type of baffle plastic
 Inspection pipes 1-4" - 1-6"
 Manholes access 1
 No. & height of risers 12"

MOUNDS:

Percent slope
 Upslope dike width
 Downslope dike width
 Sideslope dike width
 Drainfield rock below pipe
 Depth of sand below rock
 Perforation size & spacing
 Pipe size & spacing
 Dimensions of rock bed
 Dimensions of sand base
 Final cover

DRAWING OF SYSTEM



DIST. or DROP BOX & TYPE

TRENCHES, BEDS, OR GRAVELLESS LEACHFIELD:

Trench depth
 Trench length
 Trench bottom width
 Trench bottom level
 Trench spacing
 Drainfield rock below pipe
 Size of gravelless pipe
 Depth of backfill
 Absorption area: square feet
 lineal feet

PUMPS:

Tank capacity 1000
 Tank manufacturer & type Joe pre-cast
 No. & height of risers 12"
 Pump manufacturer & model# Zoller
 Horsepower & GPM 1/3
 Feet of head 8
 Cycles per day Textile Filter
 Gallons per cycle w/pump.
 Size of discharge line
 Type of electrical hookup Post
 Type & location of alarm Elec.
 Cycle counter (commercial)

24" separation
Re: Joe's inspection 7-23-03

A. M. & Associates, Inc.

29465 442ND LANE
Paisade, MN 56469
(218) 768-4430

127

Michael D. O'Keeffe

Annette M. O'Keeffe

SEPTIC SYSTEMS
DESIGNS * INSPECTIONS * MAINTENANCE
MPCA #1357

**MAINTENANCE, MONITORING AND INSPECTION SERVICE CONTRACT
FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM
FOR YEAR 2003**

It is hereby agreed this 20th day of August, 20 03 by and between A.M. & Associates, Inc. and

Property Owner(s): Larry Tollefson
Home Address: 24019 435th Ave
Aitkin, MN 56431

Parcel Code: 11-1-097100
Site Address: SAME
Big Pine Lake

Phone (home) (218) 678-3296
(work) _____
(cell) _____
(fax) _____

Township Hazelton
Phone: _____

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

OSI AX10 TEXTILE FILTER DISPERSING INTO EXISTING 2 FOOT SANDBASE MOUND

This System is being dispersed for 300 gallons of water / day. A new 1860 combo and 1000 gallon pump tank was installed behind that with time dose 4 times a day to existing Mound with 2 feet of separation. An OSI AX10 Textile Filter was placed on top of the 1860 tank with backfilling to filter is flush with ground – will need some cover in winter or will freeze. The waste water goes from 630 pump tank through filter then to 1000 gallon tank. (per Glenn Boyd)

Installation Date: Nov 2001 Installer: Glenn Boyd Phone#: (218) 678-2531

That A.M. & Associates, Inc. will provide the services to perform Preventative Maintenance, Monitoring and Inspection of the parameters and frequency described herein as your Operating Permit requires for your Individual Sewage Treatment System (ISTS).

Each inspection includes an examination of the ISTS followed by a written report to the Property Owner. 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. A.M. & Associates, Inc. is authorized to submit a copy of the report to the pertaining County's Environmental Services Department.

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

A.M. & Associates, Inc. can only contract or subcontract for parts or labor after authorization by you. Billings for service calls shall be made on a case by case basis. This contract **only** covers maintenance, monitoring and inspection services per current pertaining County Operating Permit and **does not** cover alarm calls of any kind.

On-site Service Calls cost of a minimum of \$50.00 plus \$50.00 per hour for time and labor required from A.M. & Associates, due to alarms, misuse or abuse of any portion of this System, is the responsibility of the Property Owner(s), payable at time of Service. Minnesota Onsite Specialties fees for Service calls are separate.

All cost for parts time and labor, required to analyze, fix or replace any portion of this system, for damages caused by winter freezing, is the responsibility of the Property Owner(s).

All additional cost, time and labor required from A.M. & Associates, Inc. and/or Minnesota Onsite Specialties due to modifications made by the pertaining County's Environmental Services Department, is the responsibility of the Property Owner(s), and is payable within 20 days of billing.

In no event shall A.M. & Associates, Inc., Minnesota Onsite Specialties, or 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.

A.M. & Associates, Inc. shall be provided access to the site and the system in order to perform the following services that are marked:

CONTROL/ALARM PANEL (Annually)

- X 1. Check pump operations in manual mode
- X 2. Check timer settings
- X 3. Record elapsed time meter and counter readings
- X 4. Confirm operation of audible and visual alarms

LIFT PUMPING STATION (Annually)

- X 1. Verify no leaks in riser
- X 2. Inspect splice box for moisture and secure connections
- X 3. Verify condition of and correct operation of all floats
- X 4. Verify neat wrap of float cords
- X 5. Visually inspect recirculating splitter valve (if applicable) and liquid level
- X 6. Check general appearance

EFFLUENT FILTERS/PUMP SCREENS (Annually)

- X 1. Check effluent filter for buildup of biomat growth (if one installed)
- X 2. Clean (if needed)

SEPTIC TANK (Annually)

- X 1. Measure sludge and scum level
- X 2. Tank(s) should be pumped if the sludge layer is closer than 12" to the bottom of the inlet baffel or whenever the scum is closer than 3" to the bottom of the outlet baffel
* (If the test results determine a need for solids removal, the Property Owner will bear the cost and responsibility for doing so)
- X 3. Check general appearance

PRETREATMENT DEVICE (Annually)

- 1. Inspect for ponding; assess character and color of biomat
- 2. Test pressurization of laterals (squirt test)
- 3. Verify proper orifice position, equal spray under orifices, no clogged orifices
- 4. Check for odors: adjust recirculating time (if necessary)
- 5. Clean and flush manifold (if necessary)
- 6. Re-check squirt height (if necessary)
- 7. Inspect the appearance of the wastewater inside the unit for color and turbidity.

DISPERSAL FIELD (Annually)

- 1. Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)
- 2. If liquid level monitors are installed, levels will be observed and recorded.
- 3. Flush filters and clean cartridges, if applicable
- 4. Check field control unit solenoid operations or manual control, if applicable
- 5. Check for required separation

SAMPLING (As Deemed Necessary)

- 1. Acquire and deliver samples for analysis of BODs, TSS, Fats Oils and Grease, and Fecal Coliform (cost of sampling analysis plus delivery charges is the responsibility of the Property Owner. If more than one analysis is recommended and required within the duration of this contract, the additional labor costs acquired by A.M. & Associates, Inc. along with sampling analysis fees and delivery charges is the responsibility of the Property Owner).

MISCELLANEOUS (Annually)

- 1. Review water usage from water meter records kept by the Property Owner.

***** PROPERTY OWNER'S RESPONSIBILITIES (Monthly and/or as Required)**

During the term hereof, I/we as the current Property Owner(s) understand that I/we;

- 1. Will provide A.M. & Associates, Inc. with access to the System. Access includes electrical controls & disconnects, hose hookup water supply and sufficient workspace to perform the necessary maintenance services
- 2. Will be responsible for recording water meter readings on a monthly basis.
- 3. Must *notify* A.M. & Associates, Inc. *immediately* when signs of weeping problems, sewage smell or any other indication that the system may not be functioning properly.
- 4. Will provide A.M. & Associates, Inc. copies of the water meter records, upon request.
- 5. Must acquire pre-authorization from A.M. & Associates, Inc., *prior* to the Property Owner or any other individual performing or attempts to:
 - a. make alterations or modifications to the System, or
 - b. misuse the System, or
 - c. attach devices to it, or
 - d. execute any type of Maintenance services to the system or any portion thereof
- 6. Will notify A.M. & Associates, Inc. of new ownership of property if within the duration of this contract.
- 7. Will accept all responsibility and risks involved with the installation and hydraulic performance of this Septic System and hold A.M. & Associates, Inc. harmless from all liability for this Sewage Treatment System whatsoever.
- 8. May be required to perform additional maintenance responsibilities as deemed necessary by A.M. & Associates, Inc.

A. M. & Associates, Inc.

29465 442ND LANE
Palisade, MN 56469
(218) 768-4430

Michael D. O'Keeffe
Annette M. O'Keeffe

SEPTIC SYSTEMS
DESIGNS * INSPECTIONS * MAINTENANCE
MPCA #1357

**MAINTENANCE, MONITORING AND INSPECTION SERVICE CONTRACT
FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM
FOR YEAR 2004**

It is hereby agreed this 9th day of FEBRUARY, 20 04 by and between A.M. & Associates, Inc. and

Property Owner(s): Larry Tollefson
Home Address: 24019 435th Ave
Aitkin, MN 56431

Parcel Code: 11-1-097100
Site Address: SAME
Big Pine Lake

Phone (home) (218) 678-3296
(work) _____
(cell) _____
(fax) _____

Township Hazelton
Phone: _____

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

OSI AX10 TEXTILE FILTER DISPERSING INTO EXISTING 2 FOOT SANDBASE MOUND

This System is being dispersed for 300 gallons of water / day. A new 1860 combo and 1000 gallon pump tank was installed behind that with time dose 4 times a day to existing Mound with 2 feet of separation. An OSI AX10 Textile Filter was placed on top of the 1860 tank with backfilling to filter is flush with ground – will need some cover in winter or will freeze. The waste water goes from 630 pump tank through filter then to 1000 gallon tank. (per Glenn Boyd)

Installation Date: Nov 2001 Installer: Glenn Boyd Phone#: (218) 678-2531

That A.M. & Associates, Inc. will provide the services to perform Preventative Maintenance, Monitoring and Inspection of the parameters and frequency described herein as your Operating Permit requires for your Individual Sewage Treatment System (ISTS).

Each inspection includes an examination of the ISTS followed by a written report to the Property Owner. 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. A.M. & Associates, Inc. is authorized to submit a copy of the report to the pertaining County's Environmental Services Department.

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

A.M. & Associates, Inc. can only contract or subcontract for parts or labor after authorization by you. Billings for service calls shall be made on a case by case basis. This contract **only** covers maintenance, monitoring and inspection services per current pertaining County Operating Permit and **does not** cover alarm calls of any kind.

On-site Service Calls cost of a minimum of \$50.00 plus \$50.00 per hour for time and labor required from A.M. & Associates, due to alarms, misuse or abuse of any portion of this System, is the responsibility of the Property Owner(s), payable at time of Service. Minnesota Onsite Specialties fees for Service calls are separate.

All cost for parts time and labor, required to analyze, fix or replace any portion of this system, for damages caused by winter freezing, is the responsibility of the Property Owner(s).

All additional cost, time and labor required from A.M. & Associates, Inc. and/or Minnesota Onsite Specialties due to modifications made by the pertaining County's Environmental Services Department, is the responsibility of the Property Owner(s), and is payable within 20 days of billing.

In no event shall A.M. & Associates, Inc., Minnesota Onsite Specialties, or 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.

A.M. & Associates, Inc. shall be provided access to the site and the system in order to perform the following services that are marked:

CONTROL/ALARM PANEL (Annually)

- 1. Check pump operations in manual mode
- 2. Check timer settings
- 3. Record elapsed time meter and counter readings
- 4. Confirm operation of audible and visual alarms

LIFT PUMPING STATION (Annually)

- 1. Verify no leaks in riser
- 2. Inspect splice box for moisture and secure connections
- 3. Verify condition of and correct operation of all floats
- 4. Verify neat wrap of float cords
- 5. Visually inspect recirculating splitter valve (if applicable) and liquid level
- 6. Check general appearance

EFFLUENT FILTERS/PUMP SCREENS (Annually)

- 1. Check effluent filter for buildup of biomat growth
- 2. Clean (if needed)

SEPTIC TANK (Annually)

- 1. Measure sludge and scum level
- 2. Tank(s) should be pumped if the sludge layer is closer than 12" to the bottom of the inlet baffel or whenever the scum is closer than 3" to the bottom of the outlet baffel
* (If the test results determine a need for solids removal, the Property Owner will bear the cost and responsibility for doing so)
- 3. Check general appearance

PRETREATMENT DEVICE (Annually)

- 1. Inspect for ponding; assess character and color of biomat
- 2. Test pressurization of laterals (squirt test)
- 3. Verify proper orifice position, equal spray under orifices, no clogged orifices
- 4. Check for odors: adjust recirculating time (if necessary)
- 5. Clean and flush manifold (if necessary)
- 6. Re-check squirt height (if necessary)
- 7. Inspect the appearance of the wastewater inside the unit for color and turbidity.

DISPERSAL FIELD (Annually)

- 1. Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)
- 2. If liquid level monitors are installed, levels will be observed and recorded.
- 3. Flush filters and clean cartridges, if applicable
- 4. Check field control unit solenoid operations or manual control, if applicable
- 5. Check for required separation

SAMPLING (As Deemed Necessary)

- 1. Acquire and deliver samples for analysis of BODs, TSS, Fats Oils and Grease, and Fecal Coliform (cost of sampling analysis plus delivery charges is the responsibility of the Property Owner. If more than one analysis is recommended and required within the duration of this contract, the additional labor costs acquired by A.M. & Associates, Inc. along with sampling analysis fees and delivery charges is the responsibility of the Property Owner).

MISCELLANEOUS (Annually)

- 1. Review water usage from water meter records kept by the Property Owner.

***** PROPERTY OWNER'S RESPONSIBILITIES (Monthly and/or as Required)**

During the term hereof, I/we as the current Property Owner(s) understand that I/we;

- 1. Will provide A.M. & Associates, Inc. with access to the System. Access includes electrical controls & disconnects, hose hookup water supply and sufficient workspace to perform the necessary maintenance services
- 2. Will be responsible for recording water meter readings on a monthly basis.
- 3. Must *notify* A.M. & Associates, Inc. *immediately* when signs of weeping problems, sewage smell or any other indication that the system may not be functioning properly.
- 4. Will provide A.M. & Associates, Inc. copies of the water meter records, upon request.
- 5. Must acquire pre-authorization from A.M. & Associates, Inc., *prior* to the Property Owner or any other individual performing or attempts to:
 - a. make alterations or modifications to the System, or
 - b. misuse the System, or
 - c. attach devices to it , or
 - d. execute any type of Maintenance services to the system or any portion thereof
- 6. Will notify A.M. & Associates, Inc. of new ownership of property if within the duration of this contract.
- 7. Will accept all responsibility and risks involved with the installation and hydraulic performance of this Septic System and hold A.M. & Associates, Inc. harmless from all liability for this Sewage Treatment System whatsoever.
- 8. May be required to perform additional maintenance responsibilities as deemed necessary by A.M. & Associates, Inc.

This contract shall remain in force for a period of one year, beginning January 1st 2004 and ending December 31st 2004.

FEES

Maintenance, Monitoring & Inspection Service Contract	\$150.00	Due at time of signing contract
Sample Analysis Fees & Supplies	(approx) N/A	Due at time of sampling
*Time & Mileage to Deliver Samples for Analysis	N/A	Due at time of sampling

NOTE: SAMPLING OF FECAL COLIFORM, BOD, TSS, AND FATS OIL AND GREASE IS NOT REQUIRED AT THIS TIME. IF SAMPLING IS FOUND TO BE NECESSARY DURING THE DURATION OF THE USE OF THIS SEPTIC SYSTEM, THE PROPERTY OWNER(S) IS RESPONSIBLE FOR ALL COSTS INVOLVED, AND IS DUE AT TIME THE SAMPLES ARE TO BE TAKEN.

*If at time of sampling, the Property Owner(s) wishes to transport the samples to Brainerd himself for analysis, within the *required time limit*, A.M. & Associates, Inc. will wave the time, mileage delivery fees of \$100.00.

A.M. & Associates, Inc. agrees to provide inspection, monitoring and routine maintenance service only under this contract.

I hereby certify with my signature as the Property Owner(s) that I understand the provisions, requirements and responsibilities of this Maintenance, Monitoring and Inspection Service Contract. I also understand failure to comply with the requirements outlined in my Operating Permit, this Contract, along with any future requirements that may arise, set forth by Aitkin County Environmental Services, Orenco Systems, Inc. (OSI) or A.M. & Associates, Inc., could result in the condemning of my septic system, removal of the use of the drainfield, and require the use of Holding Tanks with a pumping Contract.

Property Owner(s):

Name: LARRY TOLLEFSON
(please print)

Larry Tollefson
(signature)

Date: Jan 6 - 04

Name: Rosanne Tollefson
(please print)

Rosanne Tollefson
(signature)

Date: Jan 6 - 04

A.M. & Associates, Inc.:

Name: MICHAEL D. O'KEEFFE
(please print)

Michael D. O'Keefe
(signature)

Date: 2/9/04

MAINTENANCE, MONITORING AND INSPECTION REPORT
FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM
1st YEAR SERVICE
2003

Property Owner(s): **LARRY TOLLEFSON**
 Home Address: **24019 435TH AVE** Site Address: **SAME**
AITKIN, mn 56431 **BIG PINE LAKE**
 Phone: **(218) 678-3296**
 Parcel Code: **11-1-097100** Township: **HAZELTON**

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

OSI AX10 TEXTILE FILTER DISPERSING INTO EXISTING 2 FOOT SANDBASE MOUND

This System is being dispersed for 300 gallons of water / day. A new 1860 combo and 1000 gallon pump tank was installed behind that with time dose 4 times a day to existing Mound with 2 feet of separation. An OSI AX10 Textile Filter was placed on top of the 1860 tank with backfilling to filter is flush with ground – will need some cover in winter or will freeze. The waste water goes from 630 pump tank through filter then to 1000 gallon tank. (per Glenn Boyd).

Installation Date: Nov. 2001 Installer: Glenn Boyd Phone#: (218) 678-2531

MAINTENANCE & MONITORING RESULTS

CONTROL/ALARM PANEL	RESULTS
1. Check pump operations in manual mode	Good
2. Check timer settings	Good
3. Record elapsed time meter and counter readings.	ETM = 032278 min CNT = 032307
4. Confirm operation of audible and visual alarms	Good

LIFT PUMPING STATION	RESULTS
1. Verify no leaks in riser	Good -(Recently resealed)
2. Inspect splice box for moisture and secure connections	Approx ¾ full of Water, -REMOVED 1 Wire Nut Partially Melted
3. Verify condition of and correct operation of all floats	Good
4. Verify neat wrap of float cords	Good
5. Check general appearance	Good

EFFLUENT FILTERS/PUMP SCREENS	RESULTS
1. Check effluent filter for buildup of biomat growth.	Extreme build-up on Filter SEE COMMENTS
2. Clean (if needed)	CLEANED

SEPTIC TANK	RESULTS
1. Measure sludge and scum level	Sludge level = 0", Clear Zone = 0" - 42", No Scum on Top.
2. Tank(s) should be pumped if the sludge layer is closer than 12" to the bottom of the inlet baffel or whenever the scum is closer than 3" to the bottom of the outlet baffel.	Not necessary at this time.
3. Check general appearance	Good

MAINTENANCE & MONITORING RESULTS

PRETREATMENT DEVICE	RESULTS
1. Inspect for ponding; assess character and color of biomat	Good
2. Test pressurization of laterals (squirt test)	Good
3. Verify proper orifice position, equal spray under orifices no clogged orifices	Good
4. Check for odors: adjust recirculating time (if necessary)	Good
5. Clean and flush manifold (if necessary)	Good
6. Re-check squirt height (if necessary)	Not necessary at this time.
7. Inspect the appearance of the wastewater inside the unit for color and turbidity.	Effluent Clear

DISPERSAL FIELD	RESULTS
1. Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)	No signs of failure.
2. Check for required separation	Not checked at this time.

MISCELLANEOUS	RESULTS															
1. Review water usage from water meter records.	<table border="1"> <thead> <tr> <th><u>DATE</u></th> <th><u>READING</u></th> <th><u>GALLONS</u></th> </tr> </thead> <tbody> <tr> <td>08/20/2003</td> <td>1870</td> <td></td> </tr> <tr> <td>08/26/2003</td> <td>2060</td> <td>190 31gpd</td> </tr> <tr> <td>09/01/2003</td> <td>2340</td> <td>280 46gpd</td> </tr> <tr> <td>09/15/2003</td> <td>2540</td> <td>180 12gpd</td> </tr> </tbody> </table> <p>FULL TIME RESIDENCE EXCEPT DURING WINTER MONTHS</p>	<u>DATE</u>	<u>READING</u>	<u>GALLONS</u>	08/20/2003	1870		08/26/2003	2060	190 31gpd	09/01/2003	2340	280 46gpd	09/15/2003	2540	180 12gpd
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COMMENTS: JUNE 2003

-HAD LOW LEVEL ALARMS. TANK WAS PUMPED & INSPECTED BY RITTERS. THEIR ASSESSMENT WAS TANK WAS FINE. JOHN WALSH AND ANNETTE O'KEEFFE CHECKED TANK WITH CAMERA AND SAW POSSIBLE CRACK IN TANK. SOMEHOW THE PROBLEM CORRECTED ITSELF!

-RISERS WERE LEAKING DUE TO WINTER FROST DAMAGE. RISERS WERE RESEALED BY OWNER.

-CLEANED FILTER.

SEPTEMBER 2003

-FILTER WAS CLEANED IN JUNE 2003. EXTREAM BUILDUP ON FILTER FROM JUNE TO SEPTEMBER. PROBABLE CAUSE DUE TO LOW WATER USAGE AND PARAMETERS SET FOR RECIRCULATING TEXTILE FILTER.

-CHANGED PARAMETERS TO RECIRCULATE LESS OFTEN.

-OWNER TO CHECK FILTER IN SPRING.

-WIRE NUT IN SPLICE BOX PARTIALLY MELTED. SUGGESTED TO OWNER TO HAVE ELECTRICIAN REPLACE IT.

ALL OTHER COMPONENTS LOOK GOOD.

Date Maintained: 09/14/2003 Performed By: A.M. & Associates, Inc.
29465 442nd Lane
Palisade, MN 56469
(218) 768-4430

Michael & Annette O'Keeffe

**MAINTENANCE, MONITORING AND INSPECTION REPORT
FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM
1st YEAR SERVICE
2003**

Property Owner(s): **LARRY TOLLEFSON**
 Home Address: **24019 435TH AVE** Site Address: **SAME**
AITKIN, mn 56431 **BIG PINE LAKE**
 Phone: **(218) 678-3296**
 Parcel Code: **11-1-097100** Township: **HAZELTON**

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

OSI AX10 TEXTILE FILTER DISPERSING INTO EXISTING 2 FOOT SANDBASE MOUND

This System is being dispersed for 300 gallons of water / day. A new 1860 combo and 1000 gallon pump tank was installed behind that with time dose 4 times a day to existing Mound with 2 feet of separation. An OSI AX10 Textile Filter was placed on top of the 1860 tank with backfilling to filter is flush with ground – will need some cover in winter or will freeze. The waste water goes from 630 pump tank through filter then to 1000 gallon tank. (per Glenn Boyd).

Installation Date: Nov. 2001 Installer: Glenn Boyd Phone#: (218) 678-2531

MAINTENANCE & MONITORING RESULTS

CONTROL/ALARM PANEL	RESULTS
1. Check pump operations in manual mode	Good
2. Check timer settings	Good
3. Record elapsed time meter and counter readings.	ETM = 032278 min CNT = 032307
4. Confirm operation of audible and visual alarms	Good

LIFT PUMPING STATION	RESULTS
1. Verify no leaks in riser	Good -(Recently resealed)
2. Inspect splice box for moisture and secure connections	Approx ¼ full of Water, -REMOVED 1 Wire Nut Partially Melted
3. Verify condition of and correct operation of all floats	Good
4. Verify neat wrap of float cords	Good
5. Check general appearance	Good

EFFLUENT FILTERS/PUMP SCREENS	RESULTS
1. Check effluent filter for buildup of biomat growth.	Extreme build-up on Filter SEE COMMENTS
2. Clean (if needed)	CLEANED

SEPTIC TANK	RESULTS
1. Measure sludge and scum level	Sludge level = 0", Clear Zone = 0" - 42", No Scum on Top.
2. Tank(s) should be pumped if the sludge layer is closer than 12" to the bottom of the inlet baffel or whenever the scum is closer than 3" to the bottom of the outlet baffel.	Not necessary at this time.
3. Check general appearance	Good

MAINTENANCE & MONITORING RESULTS

PRETREATMENT DEVICE	RESULTS
1. Inspect for ponding; assess character and color of biomat	Good
2. Test pressurization of laterals (squirt test)	Good
3. Verify proper orifice position, equal spray under orifices no clogged orifices	Good
4. Check for odors: adjust recirculating time (if necessary)	Good
5. Clean and flush manifold (if necessary)	Good
6. Re-check squirt height (if necessary)	Not necessary at this time.
7. Inspect the appearance of the wastewater inside the unit for color and turbidity.	Effluent Clear

DISPERSAL FIELD	RESULTS
1. Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)	No signs of failure.
2. Check for required separation	Not checked at this time.

A. M. & Associates, Inc.

29465 442nd Lane
Palisade, MN 56469
(218) 768-4430

#27087
RECEIVED JUL 05 2005
11-1-097100
Michael D. O'Keeffe
Annette M. O'Keeffe
SEPTIC SYSTEMS
DESIGNS * INSPECTIONS * MAINTENANCE
MPCA #1357

April 21, 2005

#127
2yrs
05-31-08

Dear Larry,

I spoke with Rich Courtemanch with Planning and Zoning. He said he is willing to having you renew your Operating Permit every 2 to 3 years instead of annually. You are still required to continue with having your system Maintained and Monitored annually, by us or a certified licensed professional.

You are also required to sign this document and submit a copy of the following to Rich at the County in order for this to take effect:

- 1) The Maintenance & Monitoring results for year 2004 (enclosed)
- 2) A "Signed" Contract for Maintenance & Monitoring for 2005 (enclosed)
- 3) A "Signed" copy of this document

Your System is still experiencing an extreme buildup on the Biotube. We are recommending that the Biotube is checked monthly and cleaned as needed. If you feel comfortable, you can perform this task, but you will be required to keep complete records of your findings. The records should include the dates you checked the Biotube, amount of buildup, dates you cleaned it, and the water meter reading at the time. If you notice that the Biotube has more of a buildup during certain months, please comment on your report what you may have done differently that particular month. i.e. Had guests, changed brand of soap (dish, laundry, or bath) on medication, etc.

These records will then be reviewed by us to see if we can isolate your buildup problem. Please mail these records to us before you leave for the winter.

If you do not feel comfortable checking & cleaning the Biotube on your own, then we will perform this task for an additional charge over and above the annual Maintenance & Monitoring fee. Please let me know what you want to do.

Also, did you get the melted wire nut in the splice box replaced by a waterproof wire nut? If not, please arrange to have this done immediately.

If you have any questions, please feel free to give me a call.

Annette O'Keeffe
(218) 768-4430

Even though an annual Operating Permit will be changed to every 2 to 3 years or as set by Aitkin County Planning & Zoning, I agree to continue to have Maintenance performed on my Septic System on an annual basis by a certified licensed professional, until such a time Aitkin County says differently.

Name: LARRY TOLLEFSON
(please print)

Date: 7-05-05

MAINTENANCE, MONITORING AND INSPECTION REPORT
FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM
2nd YEAR SERVICE
2004

#127

Property Owner(s): **LARRY TOLLEFSON**
 Home Address: **24019 435TH AVE** Site Address: **SAME**
AITKIN, MN 56431 **BIG PINE LAKE**
 Phone: **(218) 678-3296**
 Parcel Code: **11-1-097100** Township: **HAZELTON**

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

OSI AX10 TEXTILE FILTER DISPERSING INTO EXISTING 2 FOOT SANDBASE MOUND

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Installation Date: Nov. 2001 Installer: Glenn Boyd Phone#: (218) 678-2531

2004 MAINTENANCE & MONITORING RESULTS

CONTROL/ALARM PANEL	RESULTS
1. Check pump operations in manual mode	Good
2. Check timer settings	Good
3. Record elapsed time meter and counter readings.	ETM = 50754 min CNT = 074121
4. Confirm operation of audible and visual alarms	Good
5. Test Pump Amperage	38 amps startup 9.9 amps run time

LIFT PUMPING STATION	RESULTS
1. Verify no leaks in riser	Good
2. Inspect splice box for moisture and secure connections	Drilled hole in bottom of box for drainage. Melted Wire Nut needs to be replaced
3. Verify condition of and correct operation of all floats	Good
4. Verify neat wrap of float cords	Good
5. Check general appearance	Good

EFFLUENT FILTERS/PUMP SCREENS	RESULTS
1. Check effluent filter for buildup of biomat growth.	Extreme build-up on BIOTUBE SEE COMMENTS
2. Clean (if needed)	CLEANED

SEPTIC TANK	RESULTS
1. Measure sludge and scum level	Sludge level = 2 No Scum on Top.
2. Tank(s) should be pumped if the sludge layer is closer than 12" to the bottom of the inlet baffel or whenever the scum is closer than 3" to the bottom of the outlet baffel.	Not necessary at this time.
3. Check general appearance	Good

2004 MAINTENANCE & MONITORING RESULTS

PRETREATMENT DEVICE	RESULTS
1. Inspect for ponding; assess character and color of biomat	Good
2. Test pressurization of laterals (squirt test)	Good
3. Verify proper orifice position, equal spray under orifices no clogged orifices	Good
4. Check for odors: adjust recirculating time (if necessary)	Good
5. Clean and flush manifold (if necessary)	Good
6. Re-check squirt height (if necessary)	Not necessary at this time.
7. Inspect the appearance of the wastewater inside the unit for color and turbidity.	Effluent Clear

DISPERSAL FIELD	RESULTS
1. Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)	No signs of failure.
2. Check for required separation	Existing Mound -NOT NECESSARY

MISCELLANEOUS	RESULTS																		
1. Review water usage from water meter records.	<table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: left;"><u>DATE</u></th> <th style="text-align: left;"><u>READING</u></th> <th style="text-align: left;"><u>GALLONS</u></th> </tr> </thead> <tbody> <tr> <td>09/15/2003</td> <td style="text-align: center;">2540</td> <td></td> </tr> <tr> <td>06/01/2004</td> <td style="text-align: center;">7980</td> <td style="text-align: center;">5440</td> </tr> <tr> <td>08/??/2004</td> <td style="text-align: center;">10560</td> <td style="text-align: center;">2580</td> </tr> <tr> <td>12/01/2004 – 03/01/2005</td> <td></td> <td style="text-align: center;">Not in Use</td> </tr> <tr> <td>03/01/2005</td> <td style="text-align: center;">15770</td> <td style="text-align: center;">5210</td> </tr> </tbody> </table> <p style="text-align: center;">FULL TIME RESIDENCE EXCEPT DURING WINTER MONTHS</p>	<u>DATE</u>	<u>READING</u>	<u>GALLONS</u>	09/15/2003	2540		06/01/2004	7980	5440	08/??/2004	10560	2580	12/01/2004 – 03/01/2005		Not in Use	03/01/2005	15770	5210
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03/01/2005	15770	5210																	

COMMENTS: JULY 2004

- Extreme buildup on the Biotube still occurring. Unable to isolate the reason why.
The biotube should be checked monthly & cleaned as needed.
Owner can check & clean the Biotube, but is required to keep good records of dates
checked, amount of buildup, dates cleaned, along with the water meter reading.**
- NOTE: This monthly monitoring & cleaning of the Biotube is to "help" identify the
buildup problem and to keep the System functioning properly. It does NOT
replace the professional "annual Maintenance & Monitoring" of the entire System.**
- Suggest shutting off breakers in control panel if gone during winter months.**
- Water meter reading should be taken "monthly".**
- Partially melted wire nut in splice box had not yet been replaced as suggested in Sept 2003.
It had shorted out causing electrical problems. Suggested to Owner once again to have it
replaced with a waterproof wire nut.**
- All other components look good.**

Date Maintained: 07/13/2004

Performed By: A.M. & Associates, Inc.
29465 442nd Lane
Palisade, MN 56469
(218) 768-4430

Michael & Annette O'Keeffe

A. M. & Associates, Inc.

29465 442ND LANE
Palisade, MN 56469
(218) 768-4430

Michael D. O'Keeffe
Annette M. O'Keeffe

SEPTIC SYSTEMS
DESIGNS * INSPECTIONS * MAINTENANCE
MPCA #1357

**MAINTENANCE, MONITORING AND INSPECTION SERVICE CONTRACT
FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM
FOR YEAR 2005**

It is hereby agreed this 10th day of APRIL, 20 05 by and between A.M. & Associates, Inc. and

Property Owner(s): Larry Tollefson
Home Address: 24019 435th Ave
Aitkin, MN 56431

Parcel Code: 11-1-097100
Site Address: SAME
Big Pine Lake

Phone (home) (218) 678-3296
(work) _____
(cell) _____
(fax) _____

Township Hazelton
Phone: _____

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

OSI AX10 TEXTILE FILTER DISPERSING INTO EXISTING 2 FOOT SANDBASE MOUND

This System is being dispersed for 300 gallons of water / day. A new 1860 combo and 1000 gallon pump tank was installed behind that with time dose 4 times a day to existing Mound with 2 feet of separation. An OSI AX10 Textile Filter was placed on top of the 1860 tank with backfilling to filter is flush with ground – will need some cover in winter or will freeze. The waste water goes from 630 pump tank through filter then to 1000 gallon tank. (per Glenn Boyd)

Installation Date: Nov 2001

Installer: Glenn Boyd

Phone#: (218) 678-2531

That A.M. & Associates, Inc. will provide the services to perform Preventative Maintenance, Monitoring and Inspection of the parameters and frequency described herein as your Operating Permit requires for your Individual Sewage Treatment System (ISTS).

Each inspection includes an examination of the ISTS followed by a written report to the Property Owner. 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. A.M. & Associates, Inc. is authorized to submit a copy of the report to the pertaining County's Environmental Services Department.

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

A.M. & Associates, Inc. can only contract or subcontract for parts or labor after authorization by you. Billings for service calls shall be made on a case by case basis. This contract **only** covers maintenance, monitoring and inspection services per current pertaining County Operating Permit and **does not** cover alarm calls of any kind.

On-site Service Calls cost of a minimum of \$50.00 plus \$50.00 per hour for time and labor required from A.M. & Associates, due to alarms, misuse or abuse of any portion of this System, is the responsibility of the Property Owner(s), payable at time of Service. Minnesota Onsite Specialties fees for Service calls are separate.

All cost for parts time and labor, required to analyze, fix or replace any portion of this system, for damages caused by winter freezing, is the responsibility of the Property Owner(s).

All additional cost, time and labor required from A.M. & Associates, Inc. and/or Minnesota Onsite Specialties due to modifications made by the pertaining County's Environmental Services Department, is the responsibility of the Property Owner(s), and is payable within 20 days of billing.

In no event shall A.M. & Associates, Inc., Minnesota Onsite Specialties, or 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.

A.M. & Associates, Inc. shall be provided access to the site and the system in order to perform the following services that are marked:

CONTROL/ALARM PANEL (Annually)

- 1. Check pump operations in manual mode
- 2. Check timer settings
- 3. Record elapsed time meter and counter readings
- 4. Confirm operation of audible and visual alarms

LIFT PUMPING STATION (Annually)

- 1. Verify no leaks in riser
- 2. Inspect splice box for moisture and secure connections
- 3. Verify condition of and correct operation of all floats
- 4. Verify neat wrap of float cords
- 5. Visually inspect recirculating splitter valve (if applicable) and liquid level
- 6. Check general appearance

EFFLUENT FILTERS/PUMP SCREENS (Annually)

- 1. Check effluent filter for buildup of biomat growth
- 2. Clean (if needed)

SEPTIC TANK (Annually)

- 1. Measure sludge and scum level
- 2. Tank(s) should be pumped if the sludge layer is closer than 12" to the bottom of the inlet baffel or whenever the scum is closer than 3" to the bottom of the outlet baffel
* (If the test results determine a need for solids removal, the Property Owner will bear the cost and responsibility for doing so)
- 3. Check general appearance

PRETREATMENT DEVICE (Annually)

- 1. Inspect for ponding; assess character and color of biomat
- 2. Test pressurization of laterals (squirt test)
- 3. Verify proper orifice position, equal spray under orifices, no clogged orifices
- 4. Check for odors: adjust recirculating time (if necessary)
- 5. Clean and flush manifold (if necessary)
- 6. Re-check squirt height (if necessary)
- 7. Inspect the appearance of the wastewater inside the unit for color and turbidity.

DISPERSAL FIELD (Annually)

- 1. Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)
- 2. If liquid level monitors are installed, levels will be observed and recorded.
- 3. Flush filters and clean cartridges, if applicable
- 4. Check field control unit solenoid operations or manual control, if applicable
- 5. Check for required separation

SAMPLING (As Deemed Necessary)

- 1. Acquire and deliver samples for analysis of BODs, TSS, Fats Oils and Grease, and Fecal Coliform (cost of sampling analysis plus delivery charges is the responsibility of the Property Owner. If more than one analysis is recommended and required within the duration of this contract, the additional labor costs acquired by A.M. & Associates, Inc. along with sampling analysis fees and delivery charges is the responsibility of the Property Owner).

MISCELLANEOUS (Annually)

- 1. Review water usage from water meter records kept by the Property Owner.

***** PROPERTY OWNER'S RESPONSIBILITIES (Monthly and/or as Required)**

During the term hereof, I/we as the current Property Owner(s) understand that I/we;

- 1. Will provide A.M. & Associates, Inc. with access to the System. Access includes electrical controls & disconnects, hose hookup water supply and sufficient workspace to perform the necessary maintenance services
- 2. Will be responsible for recording water meter readings on a monthly basis.
- 3. Must *notify* A.M. & Associates, Inc. *immediately* when signs of weeping problems, sewage smell or any other indication that the system may not be functioning properly.
- 4. Will provide A.M. & Associates, Inc. copies of the water meter records, upon request.
- 5. Must acquire pre-authorization from A.M. & Associates, Inc., *prior* to the Property Owner or any other individual performing or attempts to:
 - a. make alterations or modifications to the System, or
 - b. misuse the System, or
 - c. attach devices to it , or
 - d. execute any type of Maintenance services to the system or any portion thereof
- 6. Will notify A.M. & Associates, Inc. of new ownership of property if within the duration of this contract.
- 7. Will accept all responsibility and risks involved with the installation and hydraulic performance of this Septic System and hold A.M. & Associates, Inc. harmless from all liability for this Sewage Treatment System whatsoever.
- 8. May be required to perform additional maintenance responsibilities as deemed necessary by A.M. & Associates, Inc.

27087

11-1-097100

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW
Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



June 6, 2005

RE: Renewed Operating Permit

To Whom It May Concern:

This letter is to inform you that your Operating Permit (No. 127) has been renewed until May 31, 2007. You should note that all renewal dates that were formerly on December 31 have been moved forward to allow your Operation and Maintenance provider suitable time to complete the monitoring report.

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,

A handwritten signature in blue ink, appearing to read 'Richard Courtemanche'. The signature is stylized and somewhat cursive, with a large loop at the end.

Richard Courtemanche
Assistant Zoning Administrator
Aitkin County

AITKIN COUNTY ENVIRONMENTAL SERVICES

**OPERATING PERMIT FOR WASTEWATER
TREATMENT AND DISPERSAL**

Del
3/4/05

OPERATING PERMIT #: 127

FEE: \$50.00

PERMITTEE: Larry Tollefson

PHONE: (218) 678-3296

ADDRESS: 24019 - 435th Ave.
Aitkin, MN 56431-

ZONING PERMIT # 27087

PARCEL #: 11-1-097100

LEGALDESCRIPTION: Lot 20 - Idlewood

ISSUE DATE 1/ 1/05

EXPIRATION DATE

5-31-07
12/31/05

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.

Larry Tollefson

Signature of Permittee

Mary Ann Kinsley

Signature of Permitting Authority

Date
3/4/05

Date

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

This system takes an existing mound septic system with 24" of separation under the rockbed. An OSI AX10 Textile filter for 300 gal/day. A new 1860 combo and an 1000 gal pump chamber was installed with time dosing for 4 times a day.

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 FREQUENCY
Flow	300 gal/day	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY
Flow	Water Meter	MONTHLY
Inspect Effluent Filters	Septic tank(s)	ANNUAL
Pumps, Floats & Alarms	Pump Chamber	ANNUAL
Solids Removal & Water Tightness	Septic tank(s)	ANNUAL
Vegetative Cover	Dispersal 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:

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 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 Mike O'Keefe

E. MITIGATION PLAN:

1) If weeping occur; lower dosing rate, lower water usage, increase distribution and absorption area. 2) A different or another Performance or Other System may be installed at the owner's expense. 3) 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:

* A WATER METER MUST BE INSTALLED BEFORE COMPLIANCE CERTIFICATE CAN BE ISSUED **

A. M. & Associates, Inc.

29465 442nd Lane
Palisade, MN 56469
(218) 768-4430

Michael D. O'Keeffe
Annette M. O'Keeffe
SEPTIC SYSTEMS
DESIGNS * INSPECTIONS * MAINTENANCE
MPCA #1357

July 09, 2008

Joseph Nolan
5945 Maplewood Lane
Minnetonka, MN 55346
Parcel# 11-1-097100

930-4283
760-~~2774~~
4430

612-532-2299
Paid till -

OP# 127 2013
Parcel # 11-1-097100

Dear Joseph,

+ Aitkin County P+Z

The components of your Septic System appears to be working as designed. Therefore, we are recommending to Aitkin Planning and Zoning that they allow the renewal of the Operating Permit be changed to every 5 years. This means the Operating Permit you are about to renew will be good for June 1, 2008 thru May 31, 2013. The Aitkin County Operating Permit fee of \$100.00 will cover **all 5 years**. As for A.M. & Associates, Inc., we will **not** Maintain your System until the summer/fall of 2012 or spring of 2013.

You will still be required to record your Water Meter readings monthly.

In order for you to renew your Operating Permit with Aitkin County, they will require a copy of a signed Maintenance & Monitoring Contract between you and A.M. & Associates, Inc. Enclosed, you will find 3 copies of a new 5 year Service Contract with a one time Service, which is effective June 1, 2008 thru May 31, 2013.

Please *read and sign* page 4 of all 3 copies.

One copy is for Aitkin County

Mail "one" copy back to me for my records.

Keep one copy for your records.

"You" are required to submit a copy of the following to Aitkin County in order for this to take effect:

- 1) A copy of this Letter (enclosed)
- 2) The Maintenance & Monitoring results for year June 1, 2004 thru May 31, 2008 (enclosed)
- 3) Your Monthly Water Meter readings (included on page 2 of your Maintenance Report)
- 4) A copy of the "Signed" Contract for Maintenance & Monitoring for June 1, 2008 thru May 31, 2013 (enclosed)
- 5) Your Completed Renewal Form for Operating Permit (you should have received from County)
- 6) A check to the County for \$100.00 for June 1, 2008 thru May 31, 2013 Operating Permit

If in the future, we find, that your Septic System is not functioning as designed, going back to "annual" Maintenance and Monitoring may be required.

If you have any questions, please feel free to give me a call.



Michael O'Keeffe
(218) 768-4430

A. M. & Associates, Inc.

29465 442ND LANE
Palisade, MN 56469
(218) 768-4430

Michael D. O'Keeffe
Annette M. O'Keeffe
SEPTIC SYSTEMS
DESIGNS * INSPECTIONS * MAINTENANCE
MPCA #1357

MAINTENANCE, MONITORING AND INSPECTION REPORT

FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM

June 1, 2004 thru May 31, 2008

Property Owner(s): **JOSEPH NOLAN**
Home Address: **5945 MAPLEWOOD LANE** Site Address: **24019 435th AVE**
MINNETONKA, MN 55345 **AITKIN, MN 56431**
Phone:
Parcel Code: **11-1-097100** Township: **BIG PINE LAKE**
HAZELTON

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

OSI AX10 TEXTILE FILTER DISPERSING INTO EXISTING 2 FOOT SANDBASE MOUND

This System is being dispersed for 300 gallons of water / day. A new 1860 combo and 1000 gallon pump tank was installed behind that with time dose 4 times a day to existing Mound with 2 feet of separation. An OSI AX10 Textile Filter was placed on top of the 1860 tank with backfilling to filter is flush with ground – will need some cover in winter or will freeze. The waste water goes from 630 pump tank through filter then to 1000 gallon tank. (per Glenn Boyd).

Installation Date: Nov. 2001 Installer: Glenn Boyd Phone#: (218) 678-2531

JUNE 2004 THRU MAY 2008 MAINTENANCE & MONITORING RESULTS

Date Maintained: July 2, 2008

CONTROL/ALARM PANEL	RESULTS
1. Check pump operations in manual mode	Good
2. Check timer settings	Good
3. Record elapsed time meter and counter readings.	ETM = 134891 min CNT = 276103
4. Confirm operation of audible and visual alarms	Good
5. Test Pump Amperage	Good

LIFT PUMPING STATION	RESULTS
1. Verify no leaks in riser	Good
2. Inspect splice box for moisture and secure connections	Good
3. Verify condition of and correct operation of all floats	Good
4. Verify neat wrap of float cords	Good
5. Check general appearance	Good

EFFLUENT FILTERS/PUMP SCREENS	RESULTS
1. Check effluent filter for buildup of biomat growth.	Good
2. Clean (if needed)	CLEANED

SEPTIC TANK	RESULTS
1. Measure sludge and scum level	Sludge level = 4 No Scum on Top.
2. Tank(s) should be pumped if the sludge layer is closer than 12" to the bottom of the inlet baffel or whenever the scum is closer than 3" to the bottom of the outlet baffel.	Not necessary at this time.
3. Check general appearance	Good

JUNE 2004 THRU MAY 2008 MAINTENANCE & MONITORING RESULTS

PRETREATMENT DEVICE	RESULTS
1. Inspect for ponding; assess character and color of biomat	Good
2. Test pressurization of laterals (squirt test)	Good
3. Verify proper orifice position, equal spray under orifices no clogged orifices	Good
4. Check for odors: adjust recirculating time (if necessary)	Good
5. Clean and flush manifold (if necessary)	Good
6. Re-check squirt height (if necessary)	Not necessary at this time.
7. Inspect the appearance of the wastewater inside the unit for color and turbidity.	Effluent Clear

DISPERSAL FIELD	RESULTS
1. Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)	No signs of failure.
2. Check for required separation	Existing Mound -NOT NECESSARY

MISCELLANEOUS	RESULTS		
	<u>DATE</u>	<u>READING</u>	<u>GALLONS</u>
1. Review water usage from water meter records.	03/02/2007	34410	
	03/10/2007	34510	100
	04/14/2007	34640	130

COMMENTS: ALL COMPONENTS LOOK GOOD.

**A.M. & ASSOCIATES RECOMMENDS THAT THE OPERATING PERMIT BE CHANGED
CHANGED TO EVERY 5 YEARS.**

**THEREFORE, THE OPERATING PERMIT RENEWAL DUE MAY 31, 2008 SHOULD BE
GOOD FOR JUNE 1, 2008 THRU MAY 31, 2013. THE NEXT MAINTENANCE WILL BE
PERFORMED DURING THE SUMMER/FALL OF 2012 OR SPRING OF 2013.**



7/09/2008

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

It is hereby agreed this 09th day of July, 20 08 by and between A.M. & Associates, Inc. and

Property Owner(s):	JOSEPH NOLAN	Site Address:	24019 435th AVE
Home Address:	5945 MAPLEWOOD LANE		AITKIN, MN 56431
	MINNETONKA, MN 55345		
Phone:			BIG PINE LAKE
Parcel Code:	11-1-097100	Township:	HAZELTON

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

OSI AX10 TEXTILE FILTER DISPERSING INTO EXISTING 2 FOOT SANDBASE MOUND

This System is being dispersed for 300 gallons of water / day. A new 1860 combo and 1000 gallon pump tank was installed behind that with time dose 4 times a day to existing Mound with 2 feet of separation. An OSI AX10 Textile Filter was placed on top of the 1860 tank with backfilling to filter is flush with ground – will need some cover in winter or will freeze. The waste water goes from 630 pump tank through filter then to 1000 gallon tank. (per Glenn Boyd).

Installation Date: Nov. 2001 Installer: Glenn Boyd Phone#: (218) 678-2531

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Each inspection includes an examination of the ISTS followed by a written report to the Property Owner. 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. A.M. & Associates, Inc. is authorized to submit a copy of the report to the pertaining County's Environmental Services Department.

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

A.M. & Associates, Inc. can only contract or subcontract for parts or labor after authorization by you. Billings for service calls shall be made on a case by case basis. This contract **only** covers maintenance, monitoring and inspection services per current pertaining County Operating Permit and **does not** cover alarm calls of any kind.

On-site Service Calls cost of a minimum of \$50.00 plus \$50.00 per hour for time and labor required from A.M. & Associates, due to alarms, misuse or abuse of any portion of this System, is the responsibility of the Property Owner(s), payable at time of Service. Minnesota Onsite Specialties fees for Service calls are separate.

All cost for parts time and labor, required to analyze, fix or replace any portion of this system, for damages caused by winter freezing, is the responsibility of the Property Owner(s).

All additional cost, time and labor required from A.M. & Associates, Inc. and/or Minnesota Onsite Specialties due to modifications made by the pertaining County's Environmental Services Department, is the responsibility of the Property Owner(s), and is payable within 20 days of billing.

In no event shall A.M. & Associates, Inc., Minnesota Onsite Specialties, or 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.

A.M. & Associates, Inc. shall be provided access to the site and the system in order to perform the following services that are marked:

CONTROL/ALARM PANEL (Annually)

- 1. Check pump operations in manual mode
- 2. Check timer settings
- 3. Record elapsed time meter and counter readings
- 4. Confirm operation of audible and visual alarms

LIFT PUMPING STATION (Annually)

- 1. Verify no leaks in riser
- 2. Inspect splice box for moisture and secure connections
- 3. Verify condition of and correct operation of all floats
- 4. Verify neat wrap of float cords
- 5. Visually inspect recirculating splitter valve (if applicable) and liquid level
- 6. Check general appearance

EFFLUENT FILTERS/PUMP SCREENS (Annually)

- 1. Check effluent filter for buildup of biomat growth
- 2. Clean (if needed)

SEPTIC TANK (Annually)

- 1. Measure sludge and scum level
- 2. Tank(s) should be pumped if the sludge layer is closer than 12" to the bottom of the inlet baffel or whenever the scum is closer than 3" to the bottom of the outlet baffel
* (If the test results determine a need for solids removal, the Property Owner will bear the cost and responsibility for doing so)
- 3. Check general appearance

PRETREATMENT DEVICE (Annually)

- 1. Inspect for ponding; assess character and color of biomat
- 2. Test pressurization of laterals (squirt test)
- 3. Verify proper orifice position, equal spray under orifices, no clogged orifices
- 4. Check for odors: adjust recirculating time (if necessary)
- 5. Clean and flush manifold (if necessary)
- 6. Re-check squirt height (if necessary)
- 7. Inspect the appearance of the wastewater inside the unit for color and turbidity.

DISPERSAL FIELD (Annually)

- 1. Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)
- 2. If liquid level monitors are installed, levels will be observed and recorded.
- 3. Flush filters and clean cartridges, if applicable
- 4. Check field control unit solenoid operations or manual control, if applicable
- 5. Check for required separation

SAMPLING (As Deemed Necessary)

- 1. Acquire and deliver samples for analysis of BODs, TSS, Fats Oils and Grease, and Fecal Coliform (cost of sampling analysis plus delivery charges is the responsibility of the Property Owner. If more than one analysis is recommended and required within the duration of this contract, the additional labor costs acquired by A.M. & Associates, Inc. along with sampling analysis fees and delivery charges is the responsibility of the Property Owner).

MISCELLANEOUS (Annually)

- 1. Review water usage from water meter records kept by the Property Owner.

***** PROPERTY OWNER'S RESPONSIBILITIES (Monthly and/or as Required)**

During the term hereof, I/we as the current Property Owner(s) understand that I/we;

- 1. Will provide A.M. & Associates, Inc. with access to the System. Access includes electrical controls & disconnects, hose hookup water supply and sufficient workspace to perform the necessary maintenance services
- 2. Will be responsible for recording water meter readings on a monthly basis.
- 3. Must *notify* A.M. & Associates, Inc. *immediately* when signs of weeping problems, sewage smell or any other indication that the system may not be functioning properly.
- 4. Will provide A.M. & Associates, Inc. copies of the water meter records, upon request.
- 5. Must acquire pre-authorization from A.M. & Associates, Inc., *prior* to the Property Owner or any other individual performing or attempts to:
 - a. make alterations or modifications to the System, or
 - b. misuse the System, or
 - c. attach devices to it, or
 - d. execute any type of Maintenance services to the system or any portion thereof
- 6. Will notify A.M. & Associates, Inc. of new ownership of property if within the duration of this contract.
- 7. Will accept all responsibility and risks involved with the installation and hydraulic performance of this Septic System and hold A.M. & Associates, Inc. harmless from all liability for this Sewage Treatment System whatsoever.
- 8. May be required to perform additional maintenance responsibilities as deemed necessary by A.M. & Associates, Inc.

This contract shall remain in force for a period of five years, beginning June 1, 2008 and ending May 31st 2013.

A.M. & Associates, Inc. agrees to provide inspection, monitoring and routine maintenance service only under this contract.

I hereby certify with my signature as the Property Owner(s) that I understand the provisions, requirements and responsibilities of this Maintenance, Monitoring and Inspection Service Contract. I also understand failure to comply with the requirements outlined in my Operating Permit, this Contract, along with any future requirements that may arise, set forth by Aitkin County Environmental Services, Orenco Systems, Inc. (OSI) or A.M. & Associates, Inc., could result in the condemning of my septic system, removal of the use of the drainfield, and require the use of Holding Tanks with a pumping Contract.

Property Owner(s):

Name: JOSEPH NOLAN (please print)  (signature) Date: 7-25-08

Spouse: _____ (please print) _____ (signature) Date: _____

A.M. & Associates, Inc.:

Name: Michael D. O'Keeffe (please print)  (signature) Date: 7-11-08

AITKIN COUNTY ENVIRONMENTAL SERVICES

OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL RENEWAL

MAY 09 2013

ISSUANCE DATE: 5/31/2013

RENEWAL PERIOD: 5 YEAR

OPERATING PERMIT #: 127

ZONING PERMIT #: 27087

PARCEL #: 11-1-097100

PERMITTEE: Bradley & Laurel Ardner

TELEPHONE:

MAILING ADDRESS:

132 Mary Circle

North Mankato, MN 56003

PROPERTY ADDRESS:

24019 435th Ave.

Aitkin, MN 56431


LEGAL DESCRIPTION: Lot 20

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 is valid through the renewal period identified above. The Permittee is not authorized to discharge after the renewal period. 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

7 MAY, 2013
Date


Signature of Permitting Authority

5-23-13
Date

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.

OK 4584, Receipt 374744 5/13/13 \$100.

**MAINTENANCE, MONITORING AND INSPECTION REPORT
 FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM**

June 2010 thru May 2013

Property Owner(s): **BRAD ARDNER**
 Home Address: **132 MARY CIRCLE** Site Address: **24019 435th AVE**
NORTH MANKATO, MN 56003 **AITKIN, MN 56431**
 Phone: **(507) 345-6424**
 Parcel Code: **11-1-097100** Township: **BIG PINE LAKE**
HAZELTON

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

OSI AX10 TEXTILE FILTER DISPERSING INTO EXISTING 2 FOOT SANDBASE MOUND

This System is being dispersed for 300 gallons of water / day. A new 1860 combo and 1000 gallon pump tank was installed behind that with time dose 4 times a day to existing Mound with 2 feet of separation. An OSI AX10 Textile Filter was placed on top of the 1860 tank with backfilling to filter is flush with ground – will need some cover in winter or will freeze. The waste water goes from 630 pump tank through filter then to 1000 gallon tank. (per Glenn Boyd).

Installation Date: Nov. 2001 Installer: Glenn Boyd Phone#: (218) 678-2531

MAY 2008 THRU MAY 2010 MAINTENANCE & MONITORING RESULTS

Date Maintained: May 17, 2010

CONTROL/ALARM PANEL	RESULTS
1. Check pump operations in manual mode	Good
2. Check timer settings	Good
3. Record elapsed time meter and counter readings.	ETM = 220625 min CNT =374645
4. Confirm operation of audible and visual alarms	Good
5. Test Pump Amperage	Good

LIFT PUMPING STATION	RESULTS
1. Verify no leaks in riser	Good
2. Inspect splice box for moisture and secure connections	Good
3. Verify condition of and correct operation of all floats	Good
4. Verify neat wrap of float cords	Good
5. Check general appearance	Good

EFFLUENT FILTERS/PUMP SCREENS	RESULTS
1. Check effluent filter for buildup of biomat growth.	Good
2. Clean (if needed)	CLEANED

SEPTIC TANK	RESULTS
1. Measure sludge and scum level	Sludge level = 12" Scum level = 1-2"
2. Tank(s) should be pumped if the sludge layer is closer than 12" to the bottom of the inlet baffel or whenever the scum is closer than 3" to the bottom of the outlet baffel.	Not necessary at this time.
3. Check general appearance	Good

MAY 2010 THRU MAY 2013 MAINTENANCE & MONITORING RESULTS

PRETREATMENT DEVICE	RESULTS
1. Inspect for ponding; assess character and color of biomat	Good
2. Test pressurization of laterals (squirt test)	Good
3. Verify proper orifice position, equal spray under orifices no clogged orifices	Good
4. Check for odors; adjust recirculating time (if necessary)	Good
5. Clean and flush manifold (if necessary)	Good
6. Re-check squirt height (if necessary)	Not necessary at this time.
7. Inspect the appearance of the wastewater inside the unit for color and turbidity.	Effluent Clear

DISPERSAL FIELD	RESULTS
1. Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)	No signs of failure.
2. Check for required separation	Existing Mound -NOT NECESSARY

MISCELLANEOUS	RESULTS		
1. Review water usage from water meter records.	<u>DATE</u>	<u>READING</u>	<u>GALLONS</u>
	03/02/2007	34410	
	03/10/2007	34510	100
	04/14/2007	34640	130
	05/17/2010	50540	15900 = 5300/yr

COMMENTS: REPLACED FLOATS

YOUR NEW OPERATING PERMIT SHOULD BE VALID THRU MAY 2018.
MAINTENANCE WILL BE PERFORMED ANNUALLY PER YOUR REQUEST.



5/14/2013

Water Usage
(in gallons)

As of Date	Meter Reading	Gallons Change	Monthly Usage	As of Date	Meter Reading	Gallons Change	Monthly Usage	As of Date	Meter Reading	Gallons Change	Monthly Usage	As of Date	Meter Reading	Gallons Change	Monthly Usage
2010				2011				2012				2013			
7/31/2010	51470			1/2/2011	53380			1/2/2012	59580			1/2/2013	68450		
8/1/2010	51560	90		1/16/2011	53570	190		1/14/2012	59680	100		1/21/2013	68570	120	
8/9/2010	51650	90		1/30/2011	53660	90	480	1/22/2012	59820	140		1/28/2013	68690	120	630
8/15/2010	51740	90		2/13/2011	53730	70	70	1/29/2012	59970	150	970	2/17/2013	68740	50	50
8/30/2010	52040	300	570	3/6/2011	53820	90		2/20/2012	60020	50		3/13/2013	68890	150	
9/6/2010	52240	200		3/20/2011	53960	140	230	2/26/2012	60200	180	230	3/25/2013	69080	190	
9/12/2010	52320	80		4/10/2011	54010	50		3/4/2012	60310	110		4/1/2013	69230	150	490
9/26/2010	52390	70	350	4/14/2011	54060	50		3/11/2012	60490	180		4/15/2013	69420	190	
10/3/2010	52490	100		4/17/2011	54100	40		4/1/2012	60640	150	440	4/22/2013	69570	150	340
10/10/2010	52630	140		5/1/2011	54170	70	210	4/8/2012	60710	70		5/5/2013	69650	80	80
10/17/2010	52750	120		5/7/2011	54280	110		4/22/2012	60880	170					
10/24/2010	52900	150		5/15/2011	54380	100		4/29/2012	60970	90	330				
10/31/2010	52970	70	580	5/22/2011	54430	50		5/5/2012	61040	70					
11/21/2010	53020	50		5/30/2011	54550	120	380	5/18/2012	61230	190					
11/27/2010	53100	80		6/12/2011	54620	70		5/29/2012	61370	140					
12/19/2010	53180	80	210	6/27/2011	54980	360	430	5/31/2012	61420	50	450				
				7/16/2011	55870	890		6/18/2012	62130	710	710				
				7/23/2011	56030	160		7/15/2012	63500	1370					
				7/31/2011	56160	130	1180	7/22/2012	63800	300					
				8/7/2011	56320	160		7/29/2012	64100	300	1970				
				8/18/2011	56710	390		8/6/2012	64670	570					
				8/28/2011	56930	220	770	8/13/2012	65020	350					
				9/6/2011	57150	220		8/19/2012	65150	130	1050				
				9/11/2011	57360	210		9/3/2012	65980	830					
				9/25/2011	57440	80	510	9/10/2012	66250	270					
				10/9/2011	57570	130		9/17/2012	66590	340					
				10/16/2011	57820	250		9/30/2012	67110	520	1960				
				10/23/2011	58110	290		10/7/2012	67480	370					
				10/30/2011	58250	140	810	10/14/2012	67510	30					
				11/5/2011	58530	280		10/22/2012	67690	180	580				
				11/20/2011	58600	70		11/11/2012	67810	120	120				
				11/27/2011	58800	200	550	12/11/2012	67960	150					
				12/4/2011	58920	120		12/24/2012	68060	100	250				
				12/16/2012	59000	80	200								
Annual Total	1710		1710	Annual Total	5820		5820	Annual Total	9060		9060	Annual Total	1590		1590



Brad Ardner

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

PH: (218) 927-734
FX: (218) 927-437



5/24/2013

Bradley & Laurel Ardner
132 Mary Circle
North Mankato, MN 56003

Re: Operating Permit # 127
Zoning Permit #27087
Parcel # 11-1-097100

Dear Permittee:

This letter is to inform you that your Operating Permit has been renewed until 5/31/2018.

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,

Aitkin County Planning & Zoning

A. M. & Associates, Inc.

29465 442nd Lane
Palisade, MN 56469
(218) 768-4430

OP#127
P# 27087
11-1-097100

MAY 30

Michael D. O'Keeffe

SEPTIC SYSTEMS
DESIGNS * INSPECTIONS * MAINTENANCE
MPCA #1357

May 14, 2013

Brad Ardner
132 Mary Circle
North Mankato, MN 56003
Parcel# 11-1-097100

Dear Brad,

We are recommending to Aitkin County that your Operating Permit will continue to be renewed every 5 years instead. This means the Operating Permit you are about to renew will be good until May 31st 2018. The Operating Permit fee of \$100.00. required by Aitkin County should cover all 5 years.

We will do a "routine" maintenance check annually, as per your request.

You will still be required to record your Water Meter readings.

In order for you to renew your 5 year Operating Permit with Aitkin County, they will require a copy of a signed Maintenance & Monitoring Contract between you and A.M. & Associates, Inc.

Enclosed, you will find 3 copies of a new 5 year Service Contract with a one time Service, which is effective June 1, 2013 thru May 31, 2018.

Please read and sign page 4 of all 3 copies.

One copy is for Aitkin County

Mail "one" copy back to me.

Keep one copy for your records.

You are required to submit a copy of the following to Aitkin County in order for this to take effect:

- 1) The Maintenance & Monitoring results for May 2010 thru May 2013 (enclosed)
- 2) A copy of the "Signed" Contract for Maintenance & Monitoring for year June 1st 2013 thru May 31st 2018 (enclosed)
- 3) Your Completed Renewal Form for Operating Permit (provided by the County)
- 4) A check to the County for \$100.00 for the 2013-2018 Operating Permit)

If you have any questions, please feel free to give me a call.



Michael D. O'Keeffe
(218) 768-4430

cc Aitkin County Planning & Zoning

**MAINTENANCE, MONITORING AND INSPECTION REPORT
 FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM**

June 2010 thru May 2013

Property Owner(s): **BRAD ARDNER**
 Home Address: **132 MARY CIRCLE** Site Address: **24019 435th AVE**
NORTH MANKATO, MN 56003 **AITKIN, MN 56431**
 Phone: **(507) 345-6424**
 Parcel Code: **11-1-097100** Township: **BIG PINE LAKE**
HAZELTON

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

OSI AX10 TEXTILE FILTER DISPERSING INTO EXISTING 2 FOOT SANDBASE MOUND

This System is being dispersed for 300 gallons of water / day. A new 1860 combo and 1000 gallon pump tank was installed behind that with time dose 4 times a day to existing Mound with 2 feet of separation. An OSI AX10 Textile Filter was placed on top of the 1860 tank with backfilling to filter is flush with ground – will need some cover in winter or will freeze. The waste water goes from 630 pump tank through filter then to 1000 gallon tank. (per Glenn Boyd).

Installation Date: Nov. 2001 Installer: Glenn Boyd Phone#: (218) 678-2531

MAY 2008 THRU MAY 2010 MAINTENANCE & MONITORING RESULTS

Date Maintained: May 17, 2010

CONTROL/ALARM PANEL	RESULTS
1. Check pump operations in manual mode	Good
2. Check timer settings	Good
3. Record elapsed time meter and counter readings.	ETM = 220625 min CNT = 374645
4. Confirm operation of audible and visual alarms	Good
5. Test Pump Amperage	Good

LIFT PUMPING STATION	RESULTS
1. Verify no leaks in riser	Good
2. Inspect splice box for moisture and secure connections	Good
3. Verify condition of and correct operation of all floats	Good
4. Verify neat wrap of float cords	Good
5. Check general appearance	Good

EFFLUENT FILTERS/PUMP SCREENS	RESULTS
1. Check effluent filter for buildup of biomat growth.	Good
2. Clean (if needed)	CLEANED

SEPTIC TANK	RESULTS
1. Measure sludge and scum level	Sludge level = 12" Scum level = 1-2"
2. Tank(s) should be pumped if the sludge layer is closer than 12" to the bottom of the inlet baffel or whenever the scum is closer than 3" to the bottom of the outlet baffel.	Not necessary at this time.
3. Check general appearance	Good

MAY 2010 THRU MAY 2013 MAINTENANCE & MONITORING RESULTS

PRETREATMENT DEVICE	RESULTS
1. Inspect for ponding; assess character and color of biomat	Good
2. Test pressurization of laterals (squirt test)	Good
3. Verify proper orifice position, equal spray under orifices no clogged orifices	Good
4. Check for odors: adjust recirculating time (if necessary)	Good
5. Clean and flush manifold (if necessary)	Good
6. Re-check squirt height (if necessary)	Not necessary at this time.
7. Inspect the appearance of the wastewater inside the unit for color and turbidity.	Effluent Clear

DISPERSAL FIELD	RESULTS
1. Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)	No signs of failure.
2. Check for required separation	Existing Mound –NOT NECESSARY

MISCELLANEOUS	RESULTS		
1. Review water usage from water meter records.	<u>DATE</u>	<u>READING</u>	<u>GALLONS</u>
	03/02/2007	34410	
	03/10/2007	34510	100
	04/14/2007	34640	130
	05/17/2010	50540	15900 = 5300/yr

COMMENTS: REPLACED FLOATS

YOUR NEW OPERATING PERMIT SHOULD BE VALID THRU MAY 2018.
MAINTENANCE WILL BE PERFORMED ANNUALLY PER YOUR REQUEST.



5/14/2013

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

It is hereby agreed this 14th day of May, 20 13 by and between A.M. & Associates, Inc. and

Property Owner(s): **BRAD & LAURIE ARDNER**
Home Address: **132 MARY CIRCLE** Site Address: **24019 435th AVE**
NORTH MANKATO, MN 56003 **AITKIN, MN 56431**
Phone: **(507) 345-6424**
Cell: **(507) 381-4737** Township: **BIG PINE LAKE**
Parcel Code: **11-1-097100** **HAZELTON**

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

OSI AX10 TEXTILE FILTER DISPERSING INTO EXISTING 2 FOOT SANDBASE MOUND

This System is being dispersed for 300 gallons of water / day. A new 1860 combo and 1000 gallon pump tank was installed behind that with time dose 4 times a day to existing Mound with 2 feet of separation. An OSI AX10 Textile Filter was placed on top of the 1860 tank with backfilling to filter is flush with ground – will need some cover in winter or will freeze. The waste water goes from 630 pump tank through filter then to 1000 gallon tank. (per Glenn Boyd).

Installation Date: Nov. 2001 Installer: Glenn Boyd Phone#: (218) 678-2531

That A.M. & Associates, Inc. will provide the services to perform Preventative Maintenance, Monitoring and Inspection of the parameters and frequency described herein as your Operating Permit requires for your Individual Sewage Treatment System (ISTS).

Each inspection includes an examination of the ISTS followed by a written report to the Property Owner. 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. A.M. & Associates, Inc. is authorized to submit a copy of the report to the pertaining County's Environmental Services Department.

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

A.M. & Associates, Inc. can only contract or subcontract for parts or labor after authorization by you. Billings for service calls shall be made on a case by case basis. This contract **only** covers maintenance, monitoring and inspection services per current pertaining County Operating Permit and **does not** cover alarm calls of any kind.

On-site Service Calls cost of a minimum of \$50.00 plus \$50.00 per hour for time and labor required from A.M. & Associates, due to alarms, misuse or abuse of any portion of this System, is the responsibility of the Property Owner(s), payable at time of Service. Minnesota Onsite Specialties fees for Service calls are separate.

All cost for parts time and labor, required to analyze, fix or replace any portion of this system, for damages caused by winter freezing, is the responsibility of the Property Owner(s).

All additional cost, time and labor required from A.M. & Associates, Inc. and/or Minnesota Onsite Specialties due to modifications made by the pertaining County's Environmental Services Department, is the responsibility of the Property Owner(s), and is payable within 20 days of billing.

In no event shall A.M. & Associates, Inc., Minnesota Onsite Specialties, or 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.

A.M. & Associates, Inc. shall be provided access to the site and the system in order to perform the following services that are marked:

CONTROL/ALARM PANEL (Annually)

- 1. Check pump operations in manual mode
- 2. Check timer settings
- 3. Record elapsed time meter and counter readings
- 4. Confirm operation of audible and visual alarms

LIFT PUMPING STATION (Annually)

- 1. Verify no leaks in riser
- 2. Inspect splice box for moisture and secure connections
- 3. Verify condition of and correct operation of all floats
- 4. Verify neat wrap of float cords
- 5. Visually inspect recirculating splitter valve (if applicable) and liquid level
- 6. Check general appearance

EFFLUENT FILTERS/PUMP SCREENS (Annually)

- 1. Check effluent filter for buildup of biomat growth
- 2. Clean (if needed)

SEPTIC TANK (Annually)

- 1. Measure sludge and scum level
- 2. Tank(s) should be pumped if the sludge layer is closer than 12" to the bottom of the inlet baffel or whenever the scum is closer than 3" to the bottom of the outlet baffel
* (If the test results determine a need for solids removal, the Property Owner will bear the cost and responsibility for doing so)
- 3. Check general appearance

PRETREATMENT DEVICE (Annually)

- 1. Inspect for ponding; assess character and color of biomat
- 2. Test pressurization of laterals (squirt test)
- 3. Verify proper orifice position, equal spray under orifices, no clogged orifices
- 4. Check for odors: adjust recirculating time (if necessary)
- 5. Clean and flush manifold (if necessary)
- 6. Re-check squirt height (if necessary)
- 7. Inspect the appearance of the wastewater inside the unit for color and turbidity.

DISPERSAL FIELD (Annually)

- 1. Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)
- 2. If liquid level monitors are installed, levels will be observed and recorded.
- 3. Flush filters and clean cartridges, if applicable
- 4. Check field control unit solenoid operations or manual control, if applicable
- 5. Check for required separation

SAMPLING (As Deemed Necessary)

- 1. Aquire and deliver samples for analysis of BODs, TSS, Fats Oils and Grease, and Fecal Coliform (cost of sampling analysis plus delivery charges is the responsibility of the Property Owner. If more than one analysis is recommended and required within the duration of this contract, the additional labor costs aquired by A.M. & Associates, Inc. along with sampling analysis fees and delivery charges is the responsibility of the Property Owner).

MISCELLANEOUS (Annually)

- 1. Review water usage from water meter records kept by the Property Owner.

***** PROPERTY OWNER'S RESPONSIBILITIES (Monthly and/or as Required)**

During the term hereof, I/we as the current Property Owner(s) understand that I/we;

- 1. Will provide A.M. & Associates, Inc. with access to the System. Access includes electrical controls & disconnects, hose hookup water supply and sufficient workspace to perform the necessary maintenance services
- 2. Will be responsible for recording water meter readings on a monthly basis.
- 3. Must *notify* A.M. & Associates, Inc. *immediately* when signs of weeping problems, sewage smell or any other indication that the system may not be functioning properly.
- 4. Will provide A.M. & Associates, Inc. copies of the water meter records, upon request.
- 5. Must aquire pre-authorization from A.M. & Associates, Inc., *prior* to the Property Owner or any other individual performing or attempts to:
 - a. make alterations or modifications to the System, or
 - b. misuse the System, or
 - c. attach devices to it , or
 - d. execute any type of Maintenance services to the system or any portion thereof
- 6. Will notify A.M. & Associates, Inc. of new ownership of property if within the duration of this contract.
- 7. Will accept all responsibility and risks involved with the installation and hydraulic performance of this Septic System and hold A.M. & Associates, Inc. harmless from all liability for this Sewage Treatment System whatsoever.
- 8. May be required to perform additional maintenance responsibilities as deemed necessary by A.M. & Associates, Inc.

This contract shall remain in force for a period of **five years**, beginning June 1, 2013 and ending May 31st 2018.

A.M. & Associates, Inc. agrees to provide inspection, monitoring and routine maintenance service only under this contract.

I hereby certify with my signature as the Property Owner(s) that I understand the provisions, requirements and responsibilities of this Maintenance, Monitoring and Inspection Service Contract. I also understand failure to comply with the requirements outlined in my Operating Permit, this Contract, along with any future requirements that may arise, set forth by Aitkin County Environmental Services, Orenco Systems, Inc. (OSI) or A.M. & Associates, Inc., could result in the condemning of my septic system, removal of the use of the drainfield, and require the use of Holding Tanks with a pumping Contract.

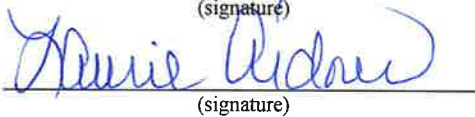
Property Owner(s):

Name: BRAD ARDNER
(please print)


(signature)

Date: 5/28/13

Spouse: LAURIE ARDNER
(please print)


(signature)

Date: 5/28/13

A.M. & Associates, Inc.:

Name: Michael D. O'Keeffe
(please print)


(signature)

Date: 5-14-13

Misc. (OFFICE USE ONLY) App. # App-2018-003128
 Laurel Ardner
 (000) 000-0000
 132 Mary Cir, North Mankato, MN 56003

Aitkin County Planning & Zoning / Environmental Services
 209 2nd Street NW, Room 100
 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 05/16/2018 11:17 AM \$100		\$100.00	x 1	\$100.00	
Grand Total					
				Total	\$100.00
Payment					
Method:	Check	Note:	ck 7148		
Date:	05/16/2018				
Made By:	Laurel Ardner				
Confirmed By:	Kalea Fischer				

	As of Date	Meter Reading	Monthly Usage		As of Date	Meter Reading	Monthly Usage
2017					2018		
Start	1/29/2016	120350			Start	1/1/2018	134070
January	1/9/2017	120460	110		January	1/8/2018	134490 420
February	N/A	120460	0		February	N/A	134490
March	N/A	120460	0		March	N/A	134490
April	5/1/2017	121550	1090		April	5/3/2018	134490 0
May	5/30/2017	123130	1580		May	5/15/2018	135040 550
June	7/1/2017	125640	2510		June		
July	8/1/2017	128080	2440		July		
August	9/1/2017	130320	2240		August		
September	9/24/2017	131220	900		September		
October	10/31/2017	132310	1090		October		
November	11/27/2017	133120	810		November		
December	1/1/2018	134070	950		December		
	Annual Total	13720	13720		Annual Total	970	970
	Ave Daily Use	37.59			Ave Daily Use	7.19	

**AITKIN COUNTY ENVIRONMENTAL SERVICES
OPERATING PERMIT FOR WASTEWATER
TREATMENT AND DISPERSAL RENEWAL**

ISSUANCE DATE: 5/31/2018
RENEWAL PERIOD: 5 YEAR

OPERATING PERMIT #: 127
ZONING PERMIT #: 27087
PARCEL #: 11-1-097100

PERMITTEE: Bradley & Laurel Ardner

TELEPHONE:

MAILING ADDRESS:
132 Mary Circle
North Mankato, MN 56003

PROPERTY ADDRESS:
24019 435th Ave.
Aitkin, MN 56431

LEGAL DESCRIPTION: Lot 20

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 is valid through the renewal period identified above. The Permittee is not authorized to discharge after the renewal period. 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

5/15/2018
Date

Kalea F.
Signature of Permitting Authority

5/16/18
Date

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.

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW Room# 100

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



5-year

Mike O retired

Last report on file was
Mike O in 2013.

2/26/2018

Bradley & Laurel Ardner
132 Mary Circle
North Mankato, MN 56003

Re: Operating Permit # 127
Zoning Permit #27087
Parcel ID#11-1-097100

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:

- the signed Operating Permit Contract
- \$100 permit renewal fee (\$150 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

**Aitkin County Environmental Services
Planning and Zoning
209 Second Street NW
Room 100
Aitkin, MN 56431
Phone: 218-927-7342
Fax: 218-927-4372**



June 18, 2018

PAST DUE RENEWAL AS OF 5/31/2018

ARDNER, BRADLEY R TRUST
132 MARY CIR
NORTH MANKATO MN 56003

Parcel ID # 11-1-097100
Permit # 27087
Operating permit # 127

Dear Permittee:

Your operating permit is overdue as of May 31, 2018.

You must submit the following by August 1, 2018:

-Results of performance and maintenance activities by a licensed service provider

This is the final notice you will receive. If all renewal requirements are not received by August 1, 2018, this issue will result in the issuance of a citation and/or a notice of noncompliance. If you have any questions, please contact us at (218) 927-7342.

Sincerely,

Kalea S.

Planning and Zoning
Environmental Services

**Aitkin County Environmental Services
Planning and Zoning
209 Second Street NW
Room 100
Aitkin, MN 56431
Phone: 218-927-7342
Fax: 218-927-4372**

4/10/19
on Mark Ritter's
List



January 4, 2019

PAST DUE RENEWAL AS OF 5/31/2018

ARDNER, BRADLEY R TRUST
132 MARY CIR
NORTH MANKATO MN 56003

5yr renewal

Parcel ID # 11-1-097100
Permit # 27087
Operating permit # 127

Dear Permittee:

Your operating permit is overdue as of May 31, 2018.

You must submit the following by March 1, 2019:

-Results of performance and maintenance activities by a licensed service provider

This is the final notice you will receive. If all renewal requirements are not received by March 1, 2019, this issue will result in the issuance of a citation and/or a notice of noncompliance. If you have any questions, please contact us at (218) 927-7342.

Sincerely,

Shannon W.

Planning and Zoning
Environmental Services



34753 390th Place • Aitkin, MN 56431

Phone: 218.97.4125 • Fax 218.927.4471

Toll Free: 800.450.4125

rittersewer@hotmail.com • www.rittersewer.com

SEPTIC SYSTEM REVIEW FOR

Brad Ardner

Parcel # 11-1-097100

Operating permit #127

Property located in Hazelton Township

August 1, 2019

The above mentioned property has a water meter installed on it that the homeowner keeps track of water usage (see attached). The average gallons per day used ranges from 10 to 95 gallons. Sewage samples were pulled (see attached) and findings show it is meeting all parameters set forth in the operating permit.

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,

A handwritten signature in black ink, appearing to read "Mark P. Ritter", is written over the typed name.

Mark P. Ritter

Ritter Sewer & Excavating, Inc.

Analysis Report

June 10, 2019

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: 5/20/2019
Time Rcvd-Brnd: 13:03

Sampled By: Mark Ritter
Sample Type: WW
Recv Temp°C: 1.9 on ice

LOCATION:
Ardner OP #127

SITE / ANALYTE	Sample Date/Time	Analyzed Value	Units	Reporting Limit	Analytical Method	Analysis Date/Time	Analyst	Code #
Lift Tank before Mound	5/20/2019 @ 11:10							
Biochemical Oxygen Demand, 5 Day		4.3	mg/L	2	SM 5210 B-2011	5/22/19 10:08	CJS	020302
Fecal Coliform		6890	MPN/100mL	1	COLILERT-18 (FECAL COLI.)	5/20/19 15:25	MH	020302
Residue-Nonfilterable (TSS)		4.44	mg/L	1	USGS I-3765-85	5/21/19 13:36	CJS	020302

Approved By:



Date Approved: 6/10/2019

Sara Ahlers, Laboratory Director

A.W. Research Laboratories, Inc. 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 analytes 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. We appreciate your feedback, please email us at awlab@awlab.com with questions or comments. Thank you!

~End of Analysis Report~



MINNESOTA VALLEY TESTING LABORATORIES, INC.

1126 North Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
2 North German St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
2616 East Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724
1201 Lincoln Hwy. ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
www.mvttl.com



Page: 1 of 1

SARA
A W RESEARCH LABORATORIES
16326 AIRPORT RD
BRainerd MN 56401

Report Date: 3 Jun 2019
Lab Number: 19-A23400
Work Order #: 12-9074
Account #: 002432
Sample Matrix: WASTEWATER
Date Sampled: 20 May 2019 11:10
Date Received: 21 May 2019 10:00
PO #: CREDIT CARD

Project Name: RITTER-ARDNER

Sample Description: LIFT TANK BEFORE MOUND 20302

Temp at Receipt: 2.8 C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Oil and Grease	< 5	mg/L	5	EPA 1664B	31 May 19 11:30	MDK

Approved by:

Dan O'Connell

David Smahel

Chemistry Laboratory Managers New Ulm, MN

RL = Reporting Limit

Analyses performed under our Minnesota Department of Health Accreditation conform to the current TNI standards. The reporting limit was elevated for any analyte requiring a dilution as coded below:

@ = Due to sample matrix # = Due to concentration of other analytes
! = Due to sample quantity + = Due to internal standard response

CERTIFICATION: MN LAB # 027-015-125 ND WW/DW # R-040

	As of Date	Meter Reading	Monthly Usage Gallons			As of Date	Meter Reading	Monthly Usage Gallons			As of Date	
2017						2018					2019	
Start	1/29/2016	120350				Start	1/1/2018	134070			Start	1/20/2019
January	1/9/2017	120460	110			January	1/8/2018	134490	420		January	1/21/2019
February	N/A	120460	0			February	N/A	134490	0		February	N/A
March	N/A	120460	0			March	N/A	134490	0		March	N/A
April	5/1/2017	121550	1090			April	5/3/2018	134490	0		April	N/A
May	5/30/2017	123130	1580			May	6/1/2018	136050	1560		May	
June	7/1/2017	125640	2510			June	6/27/2018	138540	2490		June	
July	8/1/2017	128080	2440			July	8/2/2018	140920	2380		July	
August	9/1/2017	130320	2240			August	9/1/2018	143000	2080		August	
September	9/24/2017	131220	900			September	10/1/2018	143920	920		September	
October	10/31/2017	132310	1090			October	10/30/2018	145430	1510		October	
November	11/27/2017	133120	810			November	11/14/2018	145850	420		November	
December	1/1/2018	134070	950			December	1/20/2019	145970	120		December	
	Annual					Annual					Annual	
	Total (gal)	13720	13720			Total (gal)	11900	11900			Total (gal)	
	Ave Daily Use	37.59				Ave Daily Use	32.60				Ave Daily Use	

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

PH: (218) 927-7342

FX: (218) 927-4372



8/28/2019

Bradley & Laurel Ardner
132 Mary Circle
North Mankato, MN 56003

Re: Operating Permit # 127
Zoning Permit # 27087
Parcel # 11-1-097100

Dear Permittee:

This letter is to inform you that your Operating Permit has been renewed until 5/31/2023 .

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,

Aitkin County Planning & Zoning

SEPTIC SYSTEM REVIEW FOR
Brad Ardner
Parcel # 11-1-097100
Operating permit #127

Property located in Hazelton Township

September 28, 2023

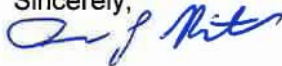
The above mentioned property has a water meter installed on it (see attached report from homeowner). The average gallons per day range from 59 to 76 gallons. Sewage samples were pulled and sent off to the laboratory for testing (we don't have results as of yet). Once results are received we will send into the county.

The system is set up for 300 gallons per day so I believe that we can take put this system on a 5 year operating permit.

The tanks, pumps, floats, effluent filter, alarm and control panel will still be inspected every year and cleaned if needed.

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

Sincerely,



Mark P. Ritter
Ritter Sewer & Excavating, Inc.

A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM

This system takes an existing mound septic system with 24" of separation under the rockbed. An OSI AX10 Textile filter for 300 gal/day. A new 1860 combo and an 1000 gal pump chamber was installed with time dosing for 4 times a day.

B. PERFORMANCE STANDARD REQUIREMENTS:

During the period beginning on the effective date (issuance date) of this permit and lasting until this 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	<2,000 mg/l	Pump Tank	Annually		Every 5 Years
Fats, Oils and Grease	30 mg/l	Pump Tank	Annually		Every 5 Years
TSS	65 mg/l	Pump tank	Annually		Every 5 Years
5-Day BOD	220 mg/l	Pump tank	Annually		Every 5 Years
Flow	300 gal/day	Water Meter	MONTHLY	Record on Log Sheet	Every 5 Years OK ✓

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY	
Flow	Water Meter	MONTHLY	OK ✓
Inspect Effluent Filters	Septic tank(s)	ANNUAL	OK ✓
Pumps, Floats & Alarms	Pump Chamber	ANNUAL	OK ✓
Solids Removal & Water Tightness	Septic tank(s)	ANNUAL	OK ✓
Vegetative Cover	Dispersal System	ANNUAL	good ✓

D. MONITORING AND REPORTING REQUIREMENTS:

	As of Date	Meter Reading	Monthly Usage Gallons	Average Daily Use		As of Date	Meter Reading	Monthly Usage Gallons	Average Daily Use	
2020						2021				
Start	1/8/2020	161000				Start	1/1/2021	182500		
January	1/8/2020	161000	0	0		January	1/8/2021	182980	480	
February	N/A	161000	0	0		February	N/A	182980	0	
March	N/A	161000	0	0		March	N/A	182980	0	
April	5/10/2020	161330	330	8		April	N/A	182980	0	
May	6/1/2020	163400	2070	94		May	6/1/2021	184250	1270	
June	7/5/2020	167600	4200	120		June	6/30/2021	186230	1980	
July	8/2/2020	169600	2000	71		July	8/4/2021	189780	3550	
August	9/8/2020	173200	3600	97		August	8/30/2021	192300	2520	
September	9/30/2020	174670	1470	67		September	9/30/2021	193430	1130	
October	11/2/2020	177410	2740	83		October	11/1/2021	197140	3710	
November	11/30/2020	179480	2070	74		November	11/30/2021	201050	3910	
December	12/31/2020	182500	3020	97		December	12/31/2021	204740	3690	
	Annual						Annual			
	Total (gal)	21500	21500	59			Total (gal)	22240	22240	61

	As of Date	Meter Reading	Monthly Usage Gallons	Average Daily Use			As of Date	Meter Reading	Monthly Usage Gallons	Average Daily Use
2022						2023				
Start	1/1/2022	204740				Start	1/1/2023	229350		
January	1/15/2022	206430	1690	55		January	1/24/2023	234010	4660	150
February	N/A	206430	0	0		February	N/A	234010	0	0
March	N/A	206430	0	0		March	N/A	234010	0	0
April	5/4/2022	206630	200	7		April	5/1/2023	234300	290	9
May	5/31/2022	209400	2770	89		May	5/31/2023	238610	4310	139
June	7/1/2022	213820	4420	147		June	7/1/2023	242010	3400	113
July	7/31/2021	216740	2920	94		July	7/31/2023	245400	3390	109
August	9/1/2022	221790	5050	163		August				
September	9/25/2022	224420	2630	88		September				
October	11/2/2022	227300	2880	93		October				
November	12/10/2022	227960	660	22		November				
December	12/31/2022	229350	1390	45		December				
	Annual						Annual			
	Total (gal)	24610	24610	67			Total (gal)	16050	16050	76

**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 Renewal Application**

Use this application to renew an operating permit.

Operating Permit #	127	Zoning Permit #	27087		
Issuance Date:	9/30/2023	Expiration Date:	9/30/2028	Renewal Term:	5 YEAR

Site Information					
Property ID:	11-1-097100				
Property Address:	24019 435th Ave.	City:	Aitkin	Zip:	56431
Service Provider or Inspector Name:	Mark Ritter	License #:			

Contact Information							
Permittee Name:	Bradley & Laurel Ardner						
Mailing Address:	24019 435th Ave.	City:	Aitkin	State:	MN	Zip:	56431
Email:	brad.ardner@gmail.com		Phone:	507-381-4737			

Include with this completed renewal application the following items:

- Table of Water Usage (Flow Monitoring Report)
- Maintenance & Monitoring Report by your Service Provider/Inspector
- Renewal Fee: **\$150** Due Date: **9/30/2023** Please make check payable to: Aitkin County

Notice of Late Fee: If your completed application and renewal fee are not received or postmarked by the due date, add a \$50.00 late fee.

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 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 inspector 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 **Mark Ritter** 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.

Permittee (please print):	BRADLEY ARDNER	Permitting Authority (please print):	Planning & Zoning		
Title:		Title:	office assistant	Date:	10/25/23
Date:	8/9/23				
Permittee Signature:		Permitting Authority Signature:			
	Permittee Signature		Aitkin County Representative Signature		

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING
307 Second Street NW Room 219
Aitkin, Minnesota 56431

Phone: (218) 927-734
Email: aitkinpz@co.aitkin.mn.us



10/20/2023

Bradley & Laurel Ardner
24019 435th Ave.
Aitkin, MN 56431

Re: Operating Permit # 127
Zoning Permit # 27087
Parcel # 11-1-097100

Dear Permittee:

This letter is to inform you that your Operating Permit has been renewed until 9/30/2028 .

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 Service Provider/Inspector 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,

A handwritten signature in black ink that reads "Shannon W." The signature is written in a cursive, flowing style.

Aitkin County Planning & Zoning