

50 6001

# ZONING PERMIT APPLICATION

FULL NAME Jay Laurson TELE # 612-670-0637  
 BIRTHDATE & DL # 8/5/57 L625-379-108-613  
 MAIL ADDRESS 12902 Lone Oak Dr Minnetonka  
 911 ADDRESS 19372 520th Ln 55305  
 TOWNSHIP Shanrock  
 LEGAL DESCRIPTION Lot 870 E part of Lot 86 Big Sandy High  
 SECTION 4 TOWNSHIP 49 RANGE 23

OFFICE USE ONLY	
DATE <u>6-21-04</u>	APPROVE <u>(initials)</u> DENY
PERMIT # <u>31853</u>	
PARCEL # <u>29-1-384100</u>	
RECEIPT # <u>2970</u>	
CONFORMING SEPTIC	
YES P#	NO <u>(NEW)</u>

(circle) RESIDENTIAL COMMERCIAL ACCESSORY NEW BUILDING ALTERATION  
 BUILDING CONTRACTOR AND LICENSE NUMBER: \_\_\_\_\_  
 SIZE OF ALL BUILDINGS COVERED BY THIS APPLICATION \_\_\_\_\_

30x45 Cobble  
30x35 Garage - detached  
Other septic system

COMMENTS: \_\_\_\_\_  
 RECEIVED JUN 14 2004

DATA FOR SEWER CONSTRUCTION: INSTALLER Perloner #BEDROOMS/GPD 3

### DO NOT WRITE BELOW THIS LINE

#### ZONING DISTRICT & FLOOD PLAIN

ZONING DISTRICT S/L Big Sandy  
 LAKE/STREAM/RIVER NAME \_\_\_\_\_  
 LAKE/RIVER ID NUMBER 1-00621  
 LAKE/RIVER/STREAM CLASSIF. BO  
 PARCEL LOCATED IN FLOOD PLAIN? Y N X  
 10/100 YR FLOOD ELEVATION 1223.9  
 LOWEST FLOOR ELEVATION 1224.9  
 ELEV. CERTIFICATE REQUIRED Y \_\_\_\_\_ N \_\_\_\_\_  
 BEFORE CONSTRUCTION Y \_\_\_\_\_ N \_\_\_\_\_  
 AFTER CONSTRUCTION Y \_\_\_\_\_ N \_\_\_\_\_

#### STRUCTURE SETBACK DISTANCE REQUIREMENTS

(Measure from eaves or overhang)  
 OHW TO LAKE/RIVER/STREAM 75'  
 PROPERTY LINE SETBACK 10'  
 SETBACK TO ROAD R-O-W 50' top 50' W  
 SETBACK TO BLUFF \_\_\_\_\_

#### SEPTIC SYSTEM SETBACK DISTANCES

SETBACK TO STRUCTURES 10' tank 20' OF  
 OHW TO LAKE/RIVER 75'  
 PROPERTY LINE SETBACK 10'  
 SETBACK TO ROAD R-O-W 10'

#### \*\*ATTACH COPY OF ELEVATION CERTIFICATES\*\*

SOIL BORINGS 3 SEPTIC DESIGN Other GARBAGE DISP/HOT TUB YES \_\_\_\_\_ NO X  
 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: \$250 Residence, \$150 garage, \$250 -  
\$50 operating permit Other system

x (Signature) \$ 700 Missy 6/18/04  
 SIGNATURE APPLICANT/AGENT FEE RECEIVED BY DATE

EXPIRES IN ONE YEAR

Aitkin County Zoning, Courthouse — AITKIN, MINNESOTA 56431 — Telephone 218/927-7342

**FIELD EVALUATION SHEET**

NAME pylaurson PERMIT # 318534  
PARCEL # 29-1-384100 TWP 49 SECTION 4

CHECK THE FOLLOWING PRIOR TO INSPECTION

NAME OF SITE EVALUATOR \_\_\_\_\_  
NAME OF DESIGNER Darlow  
NAME OF INSTALLER \_\_\_\_\_

495 LOT OF RECORD BEFORE 1-21-92 (SL) IR 1-10-95 (NSL), IF NO, ALT. SITE? \_\_\_\_\_  
495 SITE PLAN WITH SETBACK DISTANCES AND DIMENSIONS \_\_\_\_\_  
ARE ISTS SITES PROTECTED FROM DAMAGE? IF NOT, WHEN \_\_\_\_\_  
Other DESIGN \_\_\_\_\_ PERC TESTS 3 SOIL BORINGS, 2 PER SITE \_\_\_\_\_  
3 NUMBER OF BEDROOMS (INCLUDE POTENTIAL) \_\_\_\_\_  
CROSS SECTION SHEET \_\_\_\_\_ TRENCH DESIGN SHEET \_\_\_\_\_  
MOUND DESIGN SHEET \_\_\_\_\_ X OTHER OR PERFORM. \_\_\_\_\_  
PRESSURE DISTRIBUTION SHEET \_\_\_\_\_ PUMP CALC. TEST \_\_\_\_\_  
WATER USE CALCULATIONS \_\_\_\_\_  
0 GARBAGE DISPOSAL \_\_\_\_\_ 0 HOT TUB \_\_\_\_\_  
EASEMENTS ON LOT, IS ROAD PUBLIC OR PRIVATE SEE DEED/PLAT \_\_\_\_\_  
4 NATURAL LANDSCAPE PROTECTION PLAN \_\_\_\_\_

STAKING: BUILDINGS 4, DRAINFIELD 4, BORINGS 4, WELL \_\_\_\_\_  
BUILDING SETBACKS: ROAD 1, SIDE \_\_\_\_\_, REAR \_\_\_\_\_, BLUFF \_\_\_\_\_,  
LAKE/RIVER \_\_\_\_\_

COMPLETE DURING SITE EVALUATION  
BUILDINGS STAKED \_\_\_\_\_ DRAINFIELD STAKED \_\_\_\_\_ BORINGS STAKED \_\_\_\_\_  
WELL STAKED \_\_\_\_\_

**SETBACKS (MEASURE DISTANCE)**

	<u>DRAINFIELD</u>	<u>HOUSE</u>
FLOOD PLAIN	YES/NO	YES/NO
WETLANDS	YES/NO	YES/NO
LAKE, RIVER, PROTECTED WATERS	<u>&gt; 100'</u>	<u>&gt; 75'</u>
ROAD RIGHT OF WAY	<u>50'</u>	<u>&gt; 50'</u>
BLUFF	<u>NO</u>	<u>30' Back</u>
SIDE LOT LINE	<u>10'</u>	<u>10'</u>
REAR LOT LINE	<u>OK</u>	<u>OK</u>
HOUSE OR OTHER STRUCTURE	<u>10' DRK 20' DRNT</u>	<u>OK</u>
WELL	<u>OK</u>	<u>OK</u>
EASEMENTS	_____	_____
NEIGHBORING WELL (S) TO ISTS	(1) _____ (2) _____	(3) _____ (4) _____
DRAINFIELD AREA DISTURBED	_____	_____

CONFORMING SEPTIC SYSTEM: YES X NO If no, list reasons below.  
COMMENTS OR PROBLEMS (drainage, swales, wetlands, need gutters, etc.) TO BE INSPECTED

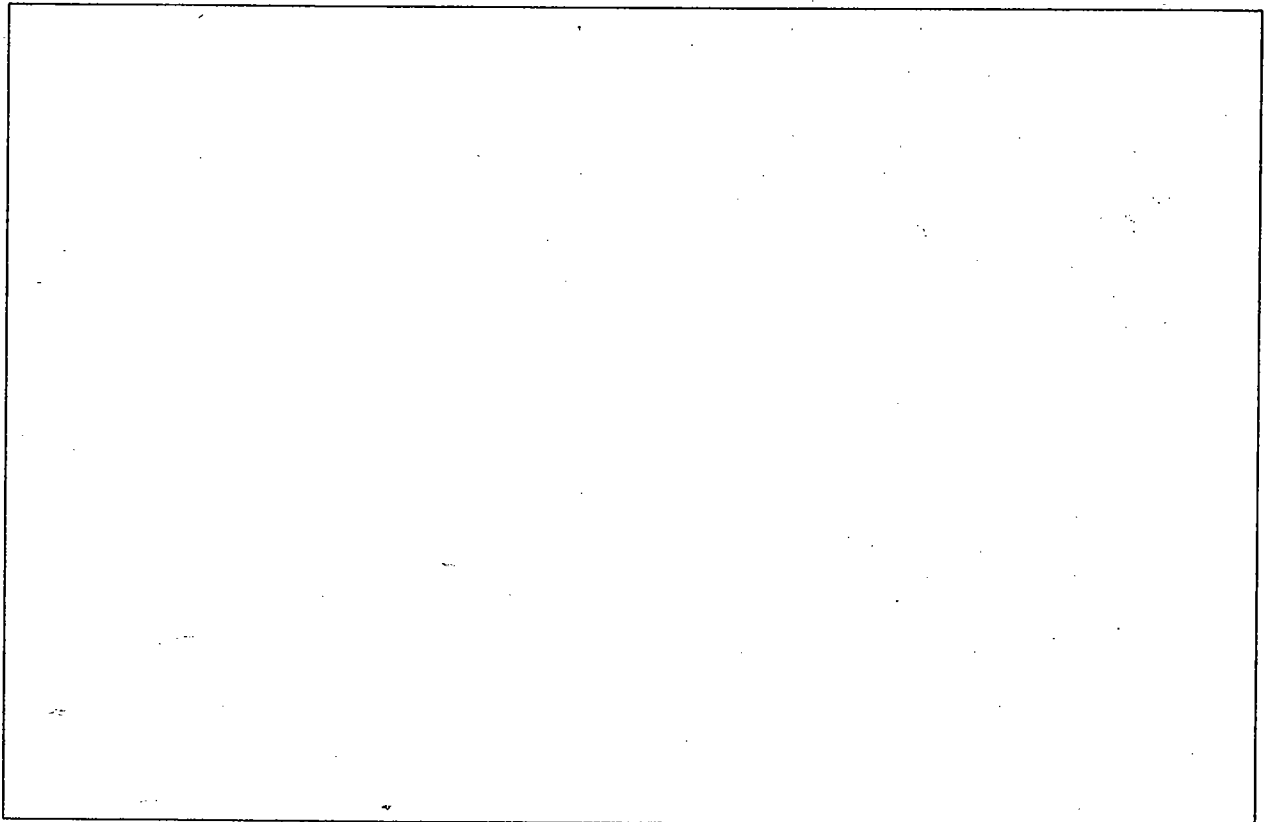
APPROVED: YES OR NO

INSPECTORS NAME M. Keller DATE 6-21-04 # PICTURES \_\_\_\_\_

SOIL BORING LOGS AND SKETCH PLAN ON REVERSE SIDE

SOIL BORING LOG #1			SOIL BORING LOG #2		
DEPTH	TEXTURE	COLOR	DEPTH	TEXTURE	COLOR
0-4'	TOPSOIL				
5'-14"	CLAY LOAM	10YR 5/2			
	Mottled @ 11"				

**IDENTIFY LOCATIONS OF: (BORINGS, NEIGHBORING STRUCTURES, WELLS, DRAINFIELDS, DRAINAGE PATTERNS, OR OTHER FEATURES THAT MAY IMPACT THE SITE).**



DSPPRCL1

Display Parcel Description

6/18/04 11:49:11

Notes: No

Parcel number/Tax year: 29-1-384100

2005 Reference parcel: 00229016384100

Owner(s): 94934  
LAURSEN, JAY & CYNTHIA  
12902 LANE OAK DR  
MINNETONKA MN 55305

Parcel type : RE Hold tax stmt:  
Com district: 4 Misc1/2:  
Escrow agent:  
Mortgage hld:  
UTA: Twp/City School AMBU \*\*\*\* \*  
029 0004 00 00 00 00

Taxpayer: 94934 FALCO: 1 F.0.  
LAURSEN, JAY & CYNTHIA  
12902 LANE OAK DR  
MINNETONKA MN 55305

TIF district: 000 000  
Lake#/name : 1-0062 BIG SANDY  
Property adr: 19372 520th Ln  
MCGREGOR  
Emergency# : 55760 -  
Twp/City Plt: SHAMROCK TWP 16  
Sec/twp/rge : 4 49.0 23 Acres:  
Plat: BIG SANDY HIGHLANDS 2ND ADDN  
Description: Lot/Block . :  
LOT 87

Alternate taxpayer:

Press Enter to continue or enter new parcel/tax year. 29-1-384100 2005  
F1=Full desc F2=Trans hist F3=Exit F6=Prcl hist F7=Backward F9=Escrow hist  
F12=Cancel F14=Phy Addr F17=Dsply Note



DSPPRCL1

Display Parcel Description

6/18/04 11:49:22

Notes: No

Parcel number/Tax year: 29-1-384000  
Owner(s): 94934  
LAURSEN, JAY & CYNTHIA  
12902 LANE OAK DR  
MINNETONKA MN 55305

2005 Reference parcel: 00-2-290163  
Parcel type : RE Hold tax stmt:  
Com district: 4 Misc1/2:  
Escrow agent:  
Mortgage hld:  
UTA: Twp/City School AMBU \*\*\*\* \*  
029 0004 00 00 00 00

Taxpayer: 94934 FALCO: 1 F.O.  
LAURSEN, JAY & CYNTHIA  
12902 LANE OAK DR  
MINNETONKA MN 55305

TIF district: 000 000  
Lake#/name : 1-0062 BIG SANDY  
Property adr:

Alternate taxpayer:

Emergency# :  
Twp/City Plt: SHAMROCK TWP 16  
Sec/twp/rge : 4 49.0 23 Acres:  
Plat: BIG SANDY HIGHLANDS 2ND ADDN  
Description: Lot/Block . :  
N EASTERLY PT OF LOT 86 IN DOC 314227

Press Enter to continue or enter new parcel/tax year. 29-1-384000 2005  
F1=Full desc F2=Trans hist F3=Exit F6=Prcl hist F7=Backward F9=Escrow hist  
F12=Cancel F14=Phy Addr F17=Dsply Note

# SUPPLEMENTAL DATA FOR LAND USE PERMITS

Page 1 of 2

\*\*\* COMPLETE BOTH SIDES \*\*\*

## A. PLANNING CHECKLIST (required):

- |   | YES                                 | NO                                  | ???                      |
|---|-------------------------------------|-------------------------------------|--------------------------|
| 1. Are you aware of setback requirements and will your project meet them? <i>Note: Setback distances are taken from any projection of the building (i.e. overhangs, eaves, decks, etc.)</i> ..... | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 2. Have you taken in consideration locations for future buildings, septic systems, decks, driveways, etc? .....   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 3. Are there any lowlands or wetlands on or near the site project? .....  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Is there a steep slope or bluff on or near the site? (If yes, complete Section D) .....  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 5. Will the project involve the clearing of trees or shrubs within the Shore Impact Zone of a lake or river? (If yes, complete Section D) ...   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. Will the project involve grading, filling or landscaping within the shoreland district of a lake or river? (If yes, complete Section D) .....  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Is your property in a floodplain? .....  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
- If it is, the lowest floor (which includes basement or crawl space, regardless of a dirt floor) must be one foot (1') above the 100-year flood elevation. A benchmark established by a registered surveyor or licensed engineer may be required before granting a land use permit.*

## B. PRE-EVALUATION INSPECTION REQUEST (required):

Defining and staking the property lines, road right-of-ways, septic sites, and wells are the responsibility of the property owner. In some cases, a registered survey may be required to verify setbacks before granting a permit.

**ALL PROPOSED DEVELOPMENT REQUESTS MUST BE CLEARLY STAKED AT ALL FOUR CORNERS IF APPLICABLE, IF STAKES ARE NOT PRESENT OR VISIBLE IT MAY RESULT IN ADDITIONAL FEES OR A DELAY IN THE PERMIT PROCESS.**

The undersigned hereby makes application for a pre-evaluation permit inspection, agreeing that all setback information and delineation of property lines, well location, road setbacks, and development corners have been properly marked in accordance with the standards and requirements of the Aitkin County Ordinances.

Telephone Number between the hours of 8:00 A.M. and 4:00 P.M. 612-670-0638

Landowner: Jay Laurson Date: 5/14/04

Address: 12902 Lone Oak Dr  
Minnetonka MN 55305

LANDOWNER SIGNATURE: X [Signature]

If you have any questions please contact the Planning and Zoning office at (218) 927-7342  
Ordinances and Publications are available FREE online at: [www.co.aitkin.mn.us](http://www.co.aitkin.mn.us)

WE LOOK FORWARD TO WORKING WITH YOU

**C. Directions to your Property (required):**

From a major intersection:

65 North of McGregor to Lake Ave  
Right to (old Traders Post) 520E Left  
to address.  
(B&CYC camp)

**D. NATURAL LANDSCAPE PROTECTION PLAN:**

Complete this section only if you were directed to in Section A OR if you are working near a lake or stream.

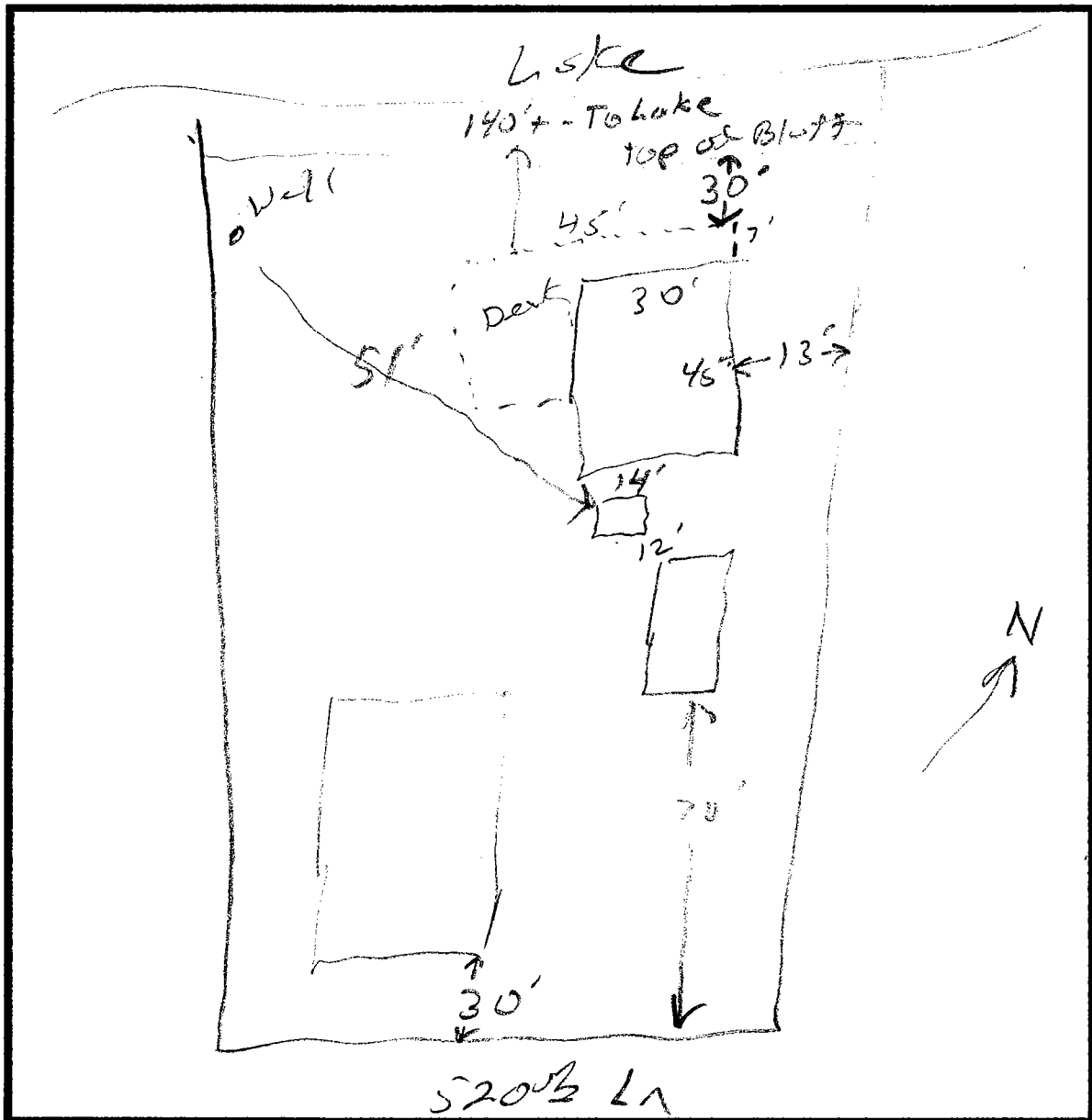
1. Description of proposed construction: Cabin
2. Existing vegetative cover (e.g., forested, grass, shrub, lawn, etc.): Grass & Dirt
3. Setback from the Ordinary High Water Level (OHW) for proposed construction? 15ft
4. How much excavation or fill work is being done inside the Shore Impact Zone (SIZ)? None  
(If excavation or fill work greater than 10 cu yds is being done, supply copy of Site review from SWCD)  
(The SIZ: Mississippi River & NE Lakes = 75 feet, RD & GD lakes = 50 feet, other waters-see ordinance)
5. How much excavation or fill work is being done outside the Shore Impact Zone (SIZ)? None  
(If excavation or fill work greater than 50 cu yds is being done, supply copy of Site review from SWCD)
6. What percent slope of the land currently exists on the construction site? See Steve Hughes Report  
(If the percent slope is greater than 20%, supply copy of Site review from SWCD) 504-30
7. How much clearing of trees and shrubs will be done inside the Shore Impact Zone (SIZ)? None  
(If vegetation will be cleared in the SIZ, supply copy of Site review from SWCD)
8. How will erosion be controlled during construction? Steep Banks
9. What will be done after construction to control erosion? Soil, Rocks, Vegetation

I have read the above and I understand the Natural Landscape Protection Plan as prepared. I hereby agree to implement this plan as part of the Land Use Permit.

X [Signature] \_\_\_\_\_  
Landowner Signature Date Zoning Official Date

# AITKIN COUNTY BUILDING PERMIT SITE PLAN

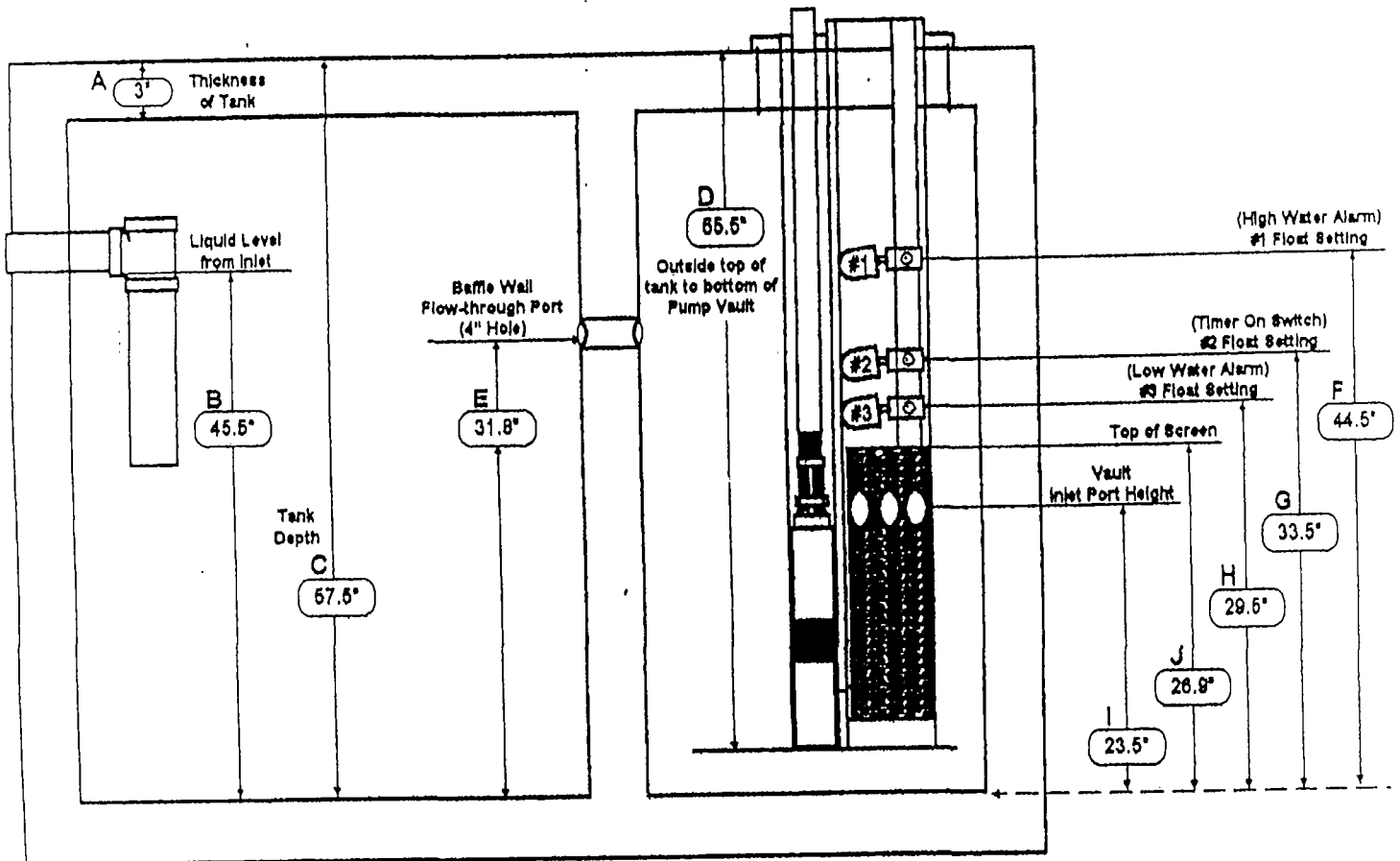
Please indicate the location of: Wells, well setback to system components, buildings, septic system components, reserved septic system area, property lines, waterways, and buried lines. Include size, length, and appropriate distances from fixed reference points. Provide a North directional arrow!



# FLOAT AND VAULT SETTING WORKSHEET

## 1860 Gallon 2 Compartment Tank - 450 GPD

- A. Thickness of Tank = 3 inches
- B. Liquid Level from Inlet = 45.5 inches
- C. Tank Depth from outside top of tank to inside bottom of tank = 57.5 inches
- D. Depth from outside top of tank to bottom of pump vault = 65.5 inches  
 (vault should be a minimum of 2" from the bottom of the tank. If the tank is deep, use a 4-8" block.)
- E. Baffle Wall Flow-through Port Height = 31.8 inches Take "B" x 70% (liquid capacity) to get port height. ( $45.5 \times 70\% = 31.8$ )
- F. #1 Float Setting = 44.5 inches (this setting is 1" less than "B")
- G. #2 Float Setting = 33.5 inches Take the tank size d/mde by "B" to get gal per inch. ( $1860 \div 45.5 = 41$  gal/inch)  
 Use a minimum reserve capacity of 200 gallons, d/mde by the gal per inch, then subtract from #1 Float Setting "F" to get #2 float setting.  
 (use minimum reserve of 200 gallons or the design flow)  
 ( $450 \text{ gpd} \div 41 = 10.97$      $44.5 - 10.97 = 33.5$ )
- H. #3 Float Setting = 29.5 inches Calculate "I" and "J" to get "H". "H" should be 3" above "J". ( $26.5 + 3 = 29.5$ )
- I. Vault Inlet Port Height = 23.5 inches Take "G" x 70% (liquid capacity) to get port height. ( $33.5 \times 70\% = 23.5$ )
- J. Top of Screen in Screen Vault = 26.5 inches The screen is 3" above port height "I". ( $23.5 + 3 = 26.5$ )



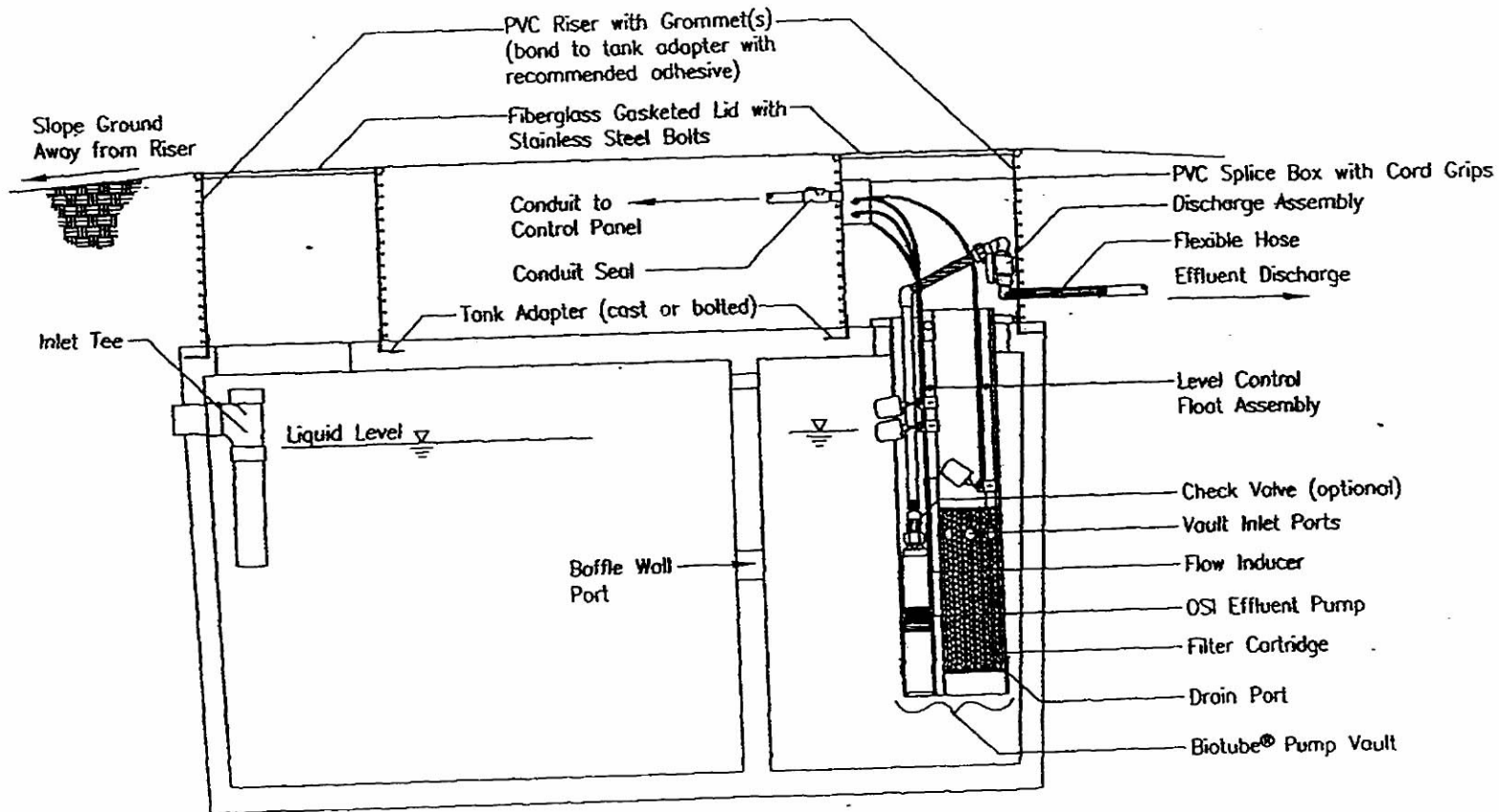
# Effluent Pumping System - Dual Compartment Drawdown



Orengo Systems<sup>®</sup>  
Incorporated

814 AIRWAY AVENUE  
SUTHERLIN, OREGON  
97479-9012

TELEPHONE:  
(541) 459-4449  
FACSIMILE:  
(541) 459-2884





**Orengo Systems**  
Incorporated

814 AIRWAY AVENUE  
SUTHERLIN, OREGON  
97479

TOLL FREE:  
(800) 348-9843

TELEPHONE:  
(541) 459-4449

FACSIMILE:  
(541) 459-2884

[www.orengo.com](http://www.orengo.com)

## Pump Selection for a Pressurized System

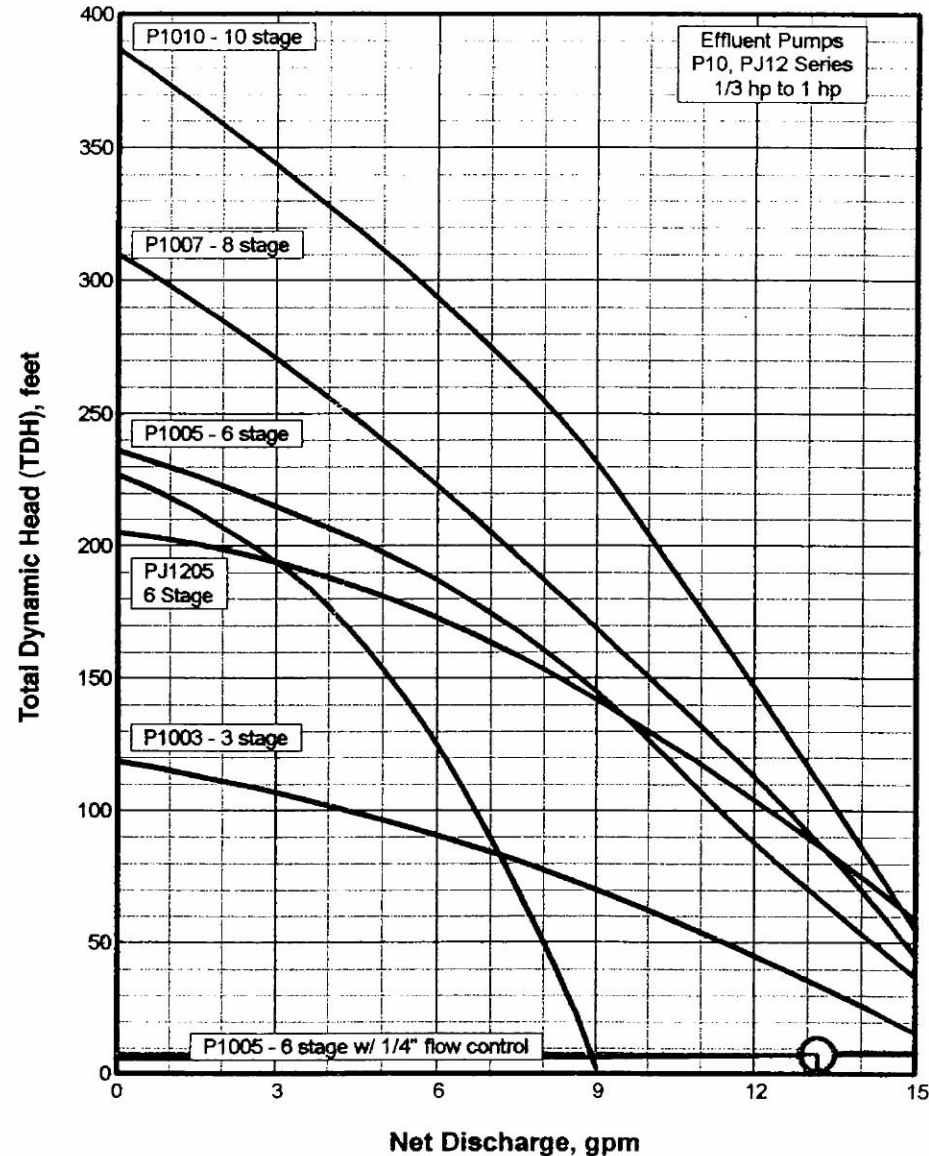
### Input Parameters

Orifice Size	1/8 inches
Residual Head at Last Orifice	1.0 feet
Orifice Spacing	3.00 feet
Number of Laterals per Cell	4
Lateral Length	50.0 feet
Lateral Line Size	1.50 inches
Lateral Pipe Class/Schedule	40
Distributing Valve Model	None
Manifold Length	41.0 feet
Manifold Line Size	1.50 inches
Manifold Pipe Class/Schedule	40
Lift to Manifold	6.0 feet
Transport Length	12.0 feet
Transport Line Size	1.50 inches
Transport Pipe Class/Schedule	40
Discharge Assembly Size	2.00 inches
Flow Meter	None inches
'Add-on' Friction Losses	0.0 feet

### Calculations

Minimum Flow Rate per Orifice	0.19 gpm
Number of Orifices per Zone	68
Total Actual Flow Rate	13.2 gpm
Number of Lines per Zone	4
% Flow Differential 1st and Last Orifice	0.7 %
Lift to Manifold	6.0 feet
Residual Head at Last Orifice	1.0 feet
Head Loss in Laterals	0.0 feet
Head Loss Through Distributing Valve	0.0 feet
Head Loss in Manifold	0.1 feet
Head Loss in Transport Pipe	0.1 feet
Head Loss Through Discharge	0.3 feet
Head Loss Through Flow Meter	0.0 feet
'Add-on' Friction Losses	0.0 feet

**Total Flow Rate** 13.2 gpm  
**TDH** 7.6 feet



# SOIL BORING / PIT LOG

PROPERTY OWNER: Jay Laursen

PARCEL CODE: 29-1-384100

05/18/2004

NOTE: A MINI-EXCAVATOR WITH A MAXIMUM 4 FOOT DEPTH IS USED TO DIG SOIL PITS.  
SOIL BORINGS THEN TAKEN AT BOTTOM OF PITS FOR FURTHER DEPTH SOIL ANALYSIS.

<u>Depth</u>	<u>Color</u>	<u>Texture</u>
<u>Pit #1</u>		
0 - 6		FILL
6 - 10	10YR 3/2	Top Soil
10 - 16	10YR 5/1	Clay Loam (E Horizon)
16 - 52	10YR 4/4	Clay Loam
52 - 92	10YR 4/4	Coarse Sand
92 - 108+	10YR 5/4	Sand

<u>Pit #2</u>		
0 - 5		FILL
5 - 8	10YR 3/2	Top Soil with some 10YR 5/1
8 - 14	10YR 5/1	Clay Loam (E Horizon)
14 - 52	10YR 4/4	Clay Loam
52 - 94	10YR 4/4	Coarse Sand
94 - 108+	10YR 5/4	Sand

<u>Pit #3</u>		
0 - 4		FILL
4 - 8	10YR 3/2	Top Soil
8 - 14	10YR 5/1	Clay Loam (E Horizon)
14 - 60	10YR 4/4	Clay Loam
60 - 90	10YR 4/4	Coarse Sand
90 - 112+	10YR 5/4	Sand



# AITKIN COUNTY ENVIRONMENTAL SERVICES

## APPLICATION for an OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

PERMITTEE Jay Laursen PARCEL NUMBER 29-1-384100 & 4000  
ADDRESS 12902 Lone Oak Dr. CITY Minnetonka STATE MN ZIP 55305  
SEC 4 TWP 49 RGE 23 BLOCK \_\_\_\_\_ LOT \_\_\_\_\_ ACRES \_\_\_\_\_  
TELEPHONE (952) 935-2460 GIS LOCATION \_\_\_\_\_  
SITE LOCATION Big Sandy Highlands, 2<sup>nd</sup> Addition

### A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM:

**This ISTS is to have the wastewater gravity from the proposed 3 bedroom dwelling into a 1860 combination tank. From there, the liquids are pumped into a 12' x 30' OSI Bottomless Sand Filter.**

Number of Bedrooms 3

Flow = 450 gpd

Hydraulic Loading Rate = 1.0 - 1.2 gpd/ft<sup>2</sup>

Organic Loading Rate = 0.00015 BOD/sqft

$$\text{Flow} \times \text{BOD}(\text{mg}/1) \times 8.35 \div 1,000,000 = \#\text{BOD}$$
$$(450 \times 15 \times 8.35 \div 1,000,000 = .056 \text{ BOD})$$

$$\text{System Loading} = \text{organic loading} \div \text{area} = \text{BOD}/\text{sqft}$$
$$(.056 \div 360 = 0.00015 \text{ BOD}/\text{sqft})$$

Anticipated System Life = 20 - 30 years

#### Estimated Cost of:

System Construction = \$7,000.00 +  
Operation = \$10.00 per month  
Monitoring, Testing & Service = \$150.00 per year

**B. PERFORMANCE STANDARD REQUIREMENTS:**

During the period beginning on the date of the Operating Permit and lasting until the Permit's expiration date, the Permittee is authorized to discharge from the wastewater treatment unit to subsurface dispersal. No surface discharge is permitted.

The discharge from the wastewater treatment unit shall be limited by the Permittee as specified below:

PARAMETER	COMPLIANCE LIMIT	SAMPLE LOCATION	SAMPLE FREQUENCY	SAMPLE TYPE	REPORTING FREQUENCY
Flow	450 gpd	Water Meter	Monthly	Record on Log Sheet	At time of Operating Permit Renewal
5-Day BOD	15/220 mg/l	Sand Filter	As Deemed Necessary	Take Sample for Testing	
Total Nitrogen					
Total Phosphorus					
TSS	15/65 mg/l	Sand Filter	As Deemed Necessary	Take Sample for Testing	
Fats, Oils, Grease (FOG)	30 mg/l	Sand Filter	As Deemed Necessary	Take Sample for Testing	
Fecal Coliform	Less than 1,000 cfu / 100 ml				
Separation Distance					

**C. MAINTENANCE REQUIREMENTS**

PARAMETER	LOCATION	FREQUENCY
Daily Flow	Water Meter	Monthly (record on log sheet)
Sludge & Scum Level	Septic Tank	Annually
Pump, Timers, Alarm, Floats, etc	Lift Tank, Pump Vault	Annually
Pressurization of Laterals in Sand Filter (squirt test)	Sand Filter	Annually
Overall visual of entire system for landscaping, drainage and cover material	Sand Filter & Tanks	Annually

**D. MONITORING AND REPORTING REQUIREMENTS:**

1. Monitoring results obtained during each calendar year shall be submitted no later than December 31<sup>st</sup> of each year to:

Aitkin County Environmental Services  
209 2<sup>nd</sup> St NW  
Aitkin, MN 56431

2. The monitoring reports shall be signed by the Permittee. Copies are to be retained for your records.
3. The Permittee or designated agent shall notify Aitkin County Environmental Services within thirty (30) days when monitoring results do not meet the monitoring plan requirements of the Operating Permit.
4. Monitoring plans may be modified as necessary and reapproved by Aitkin County Environmental Services.
5. 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.

**E. MITIGATION PLAN:**

1. If weeping problems should occur; lower dosing rate, lower water usage.
2. If OSI Sand Filter experiences problems, fix or repair at recommendations of Manufacturer, or replace.
3. A different or another Performance or Other System may be installed at the owner's expense.
4. 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 Licensed Pumper. A contract must be entered into with a Licensed Pumper.

**F. SPECIAL REQUIREMENTS:**

1. A.M. & ASSOCIATES , a licensed ISTS firm, has agreed to perform all monitoring responsibilities, as outlined within this Operating Permit Application, for a period of 1 Year(s).

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.

MICHAEL O'KEEFFE  
(Name)

  
(Signature)

1357  
(License #)

05/18/2004  
(Date)

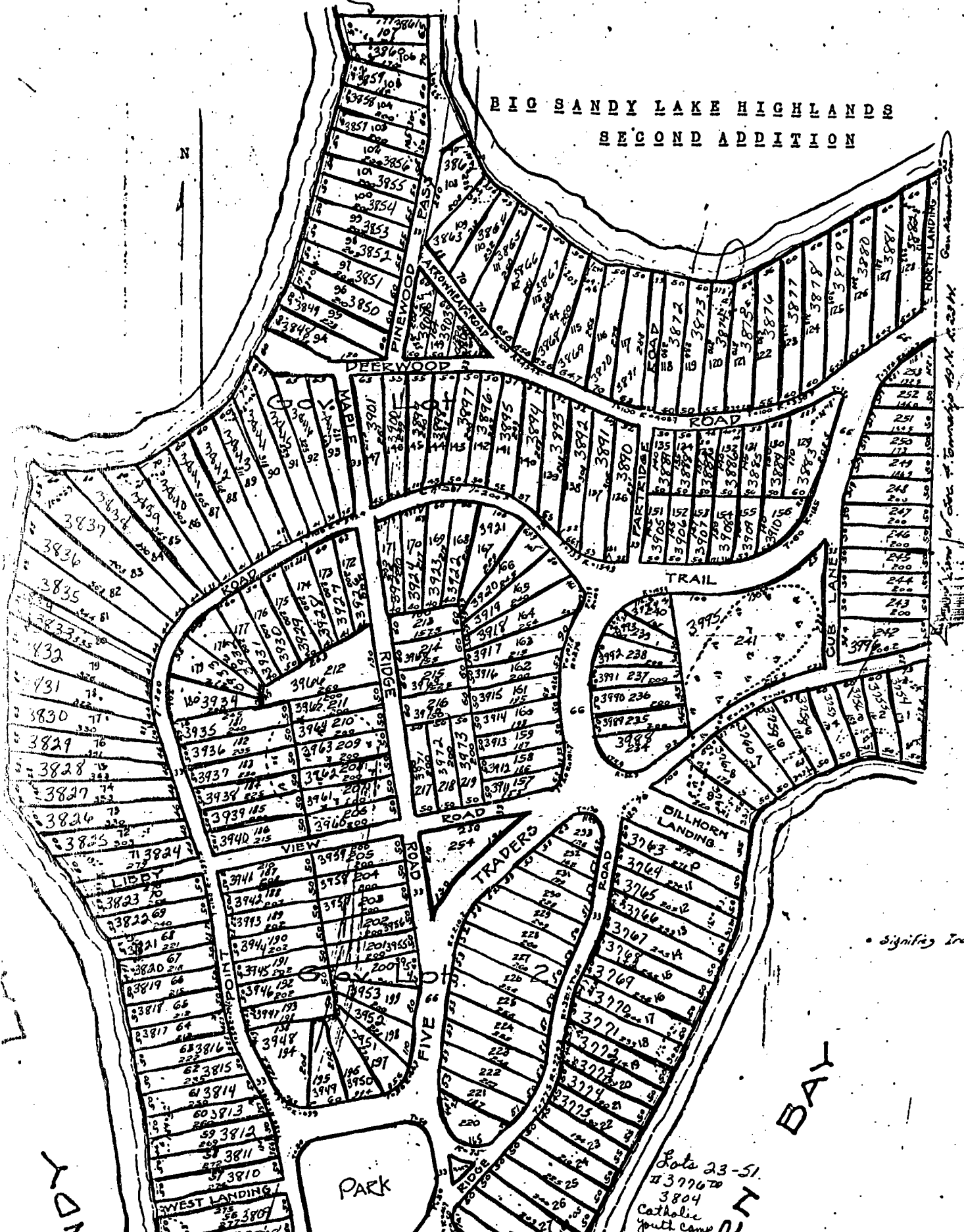
A.M. & ASSOCIATES, INC.  
(Company Name)

29465 442<sup>nd</sup> LANE PALISADE, MN 56469  
(Address)

(218) 768-4430  
(Telephone)

N.L.M. Sec. 4-49-23

# BIG SANDY LAKE HIGHLANDS SECOND ADDITION



• Signify Iron Mark

Lots 23-51  
 #3776 to  
 3804  
 Catholic  
 Youth Camp (1)

# AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW  
Aitkin, Minnesota 56431

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



October 4, 2005

RE: Septic Operating Permit #234; Zoning  
Permit # 31853; Parcel 29-1-384100

Jay Laursen  
12902 Lone Oak Dr.  
Minnetonka, MN 55305

Dear Mr. Laursen:

Enclosed is the Operating Permit for an "Other" Septic System (formerly Experimental, Performance, etc.) that you are petitioning Aitkin County Zoning to allow to be installed on your property instead of holding tanks. Please review this permit thoroughly and become aquatinted with all of the conditions, then sign the operating permit and return it to me with the enclosed envelope. NOTE: ALL FEES HAVE BEEN PAID THROUGH May 31, 2007.

One provision that is often overlooked by homeowners is the State of Minnesota requirement that a water meter or other flow measuring device be installed and the results recorded by the homeowner on a MONTHLY basis. Please be aware that a Certificate of Compliance can not be issued until this provision is met; you may wish to make provisions for its installation now.

Sometime before this 2007 deadline, you will receive an annual reminder notice on how to renew your operating permit with Aitkin County. This reminder notice will ask that you provide the 1) monthly water meter readings, 2) annual Compliance Inspection report, and 3) renewal application and fee. The Compliance Inspector (CI) is privately hired by you, the landowner and must review the septic system onsite on an annual basis while an operating permit covers the system. This annual review would be a great opportunity to review the conditions of the operating permit.

Should you have questions, please contact me at the number above or your septic designer, A.M. & Associates, Inc.

Sincerely,

A handwritten signature in black ink that reads "Richard Courtemanche". The signature is fluid and cursive.

Richard Courtemanche  
Assistant Zoning Administrator  
Aitkin County

RECEIVED OCT 14 2005

**AITKIN COUNTY ENVIRONMENTAL SERVICES**

**OPERATING PERMIT FOR WASTEWATER  
TREATMENT AND DISPERSAL**

**OPERATING PERMIT #:** 234

**FEE:** \$50

**PERMITTEE:** Jay Laursen

**PHONE:** (952) 935-2560

**ADDRESS:** 12902 Lone Oak Drive  
Minnetonka, MN 55305-

**ZONING PERMIT #** 31853

**PARCEL #:** 29-1-384100

**ISSUE DATE:** 10/4/05

**RENEW DATE:** 5/31/07

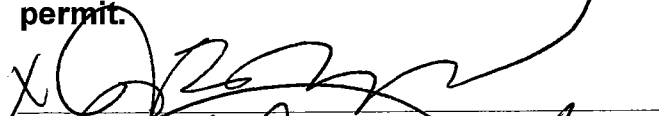
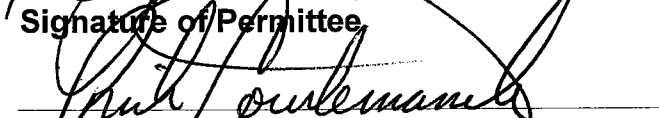
**LEGALDESCRIPTION:** Lot 87 and E part of 86 in Big Sandy Highlands 2nd Addn.

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**  
  
\_\_\_\_\_  
**Signature of Permitting Authority**

10/8/05  
**Date**  
10-18-05  
**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.

#### **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 A.M. & Associates

#### **E. MITIGATION PLAN:**

- 1) If weeping occurs; lower dosing rate, lower water usage, or increase distribution area. Waste strength: if fecals exceed limit -reduce effluent strength, increase retention time or add disinfection.
- 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 OR OTHER APPROVED WATER MEASURING DEVICE MUST BE INSTALLED AND READ ON A MONTHLY BASIS \*\*\*

**AITKIN COUNTY**  
**CERTIFICATE OF COMPLIANCE/NOTICE OF NONCOMPLIANCE**

This certificate of compliance/notice of noncompliance has been issued this 18 day of October 2005 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:

Big Sandy Highlands #2nd Addn, Lot 87

Section 4 Township 49 Range 23 Lake Big Sandy

PERMIT NO. 31853 Owner Name Jay Laurson

Address 12902 - Lone Oak Drive, Minnetonka 55305

Installer Name E. Darlow

Type of System Inspected Other "Bottomless sand filter"

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

[Signature] For Joe Fuhrer



# INDIVIDUAL SEWAGE TREATMENT SYSTEM INSPECTION FORM AITKIN COUNTY, MINNESOTA

Township Shamrock Date of Inspection 7/22/05 Permit Number 31853  
 Owner Jay Laurson Parcel Number 29-1-3841  
 Project Address Big Sandy Highlands 2nd Addn lot 87 Installer Derlow Exc  
 City \_\_\_\_\_ Zip Code \_\_\_\_\_ New  Repair

**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 \_\_\_\_\_

**SETBACKS:**

Buildings to tank(s) 15'  
 Buildings to drainfield 30  
 Well(s) 50' or 100' 30'  
 Lake/Creek/Wetland 200'

**SEPTIC TANKS:**

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

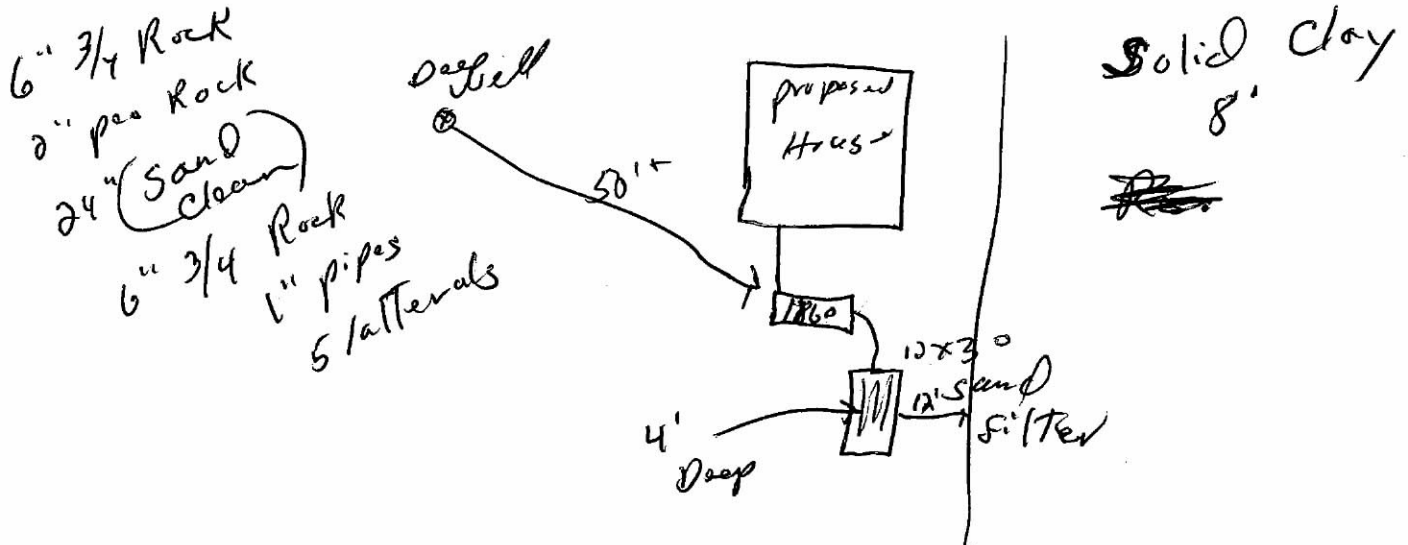
**PUMPS:**

Tank capacity 630  
 Tank manufacturer & type Jac  
 No. & height of risers 12"  
 Pump manufacturer & model# Hyd  
 Horsepower & GPM 1/3  
 Feet of head 8  
 Cycles per day 5 Time Dosed  
 Gallons per cycle 100  
 Size of discharge line 2"  
 Type of electrical hookup post  
 Type & location of alarm Elec  
 Cycle counter (commercial) \_\_\_\_\_

**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**



Inspector's Comments \_\_\_\_\_

Corrective Action Required \_\_\_\_\_

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

31853

7/22/05

Darlow



31853  
7/22/05  
Darlow

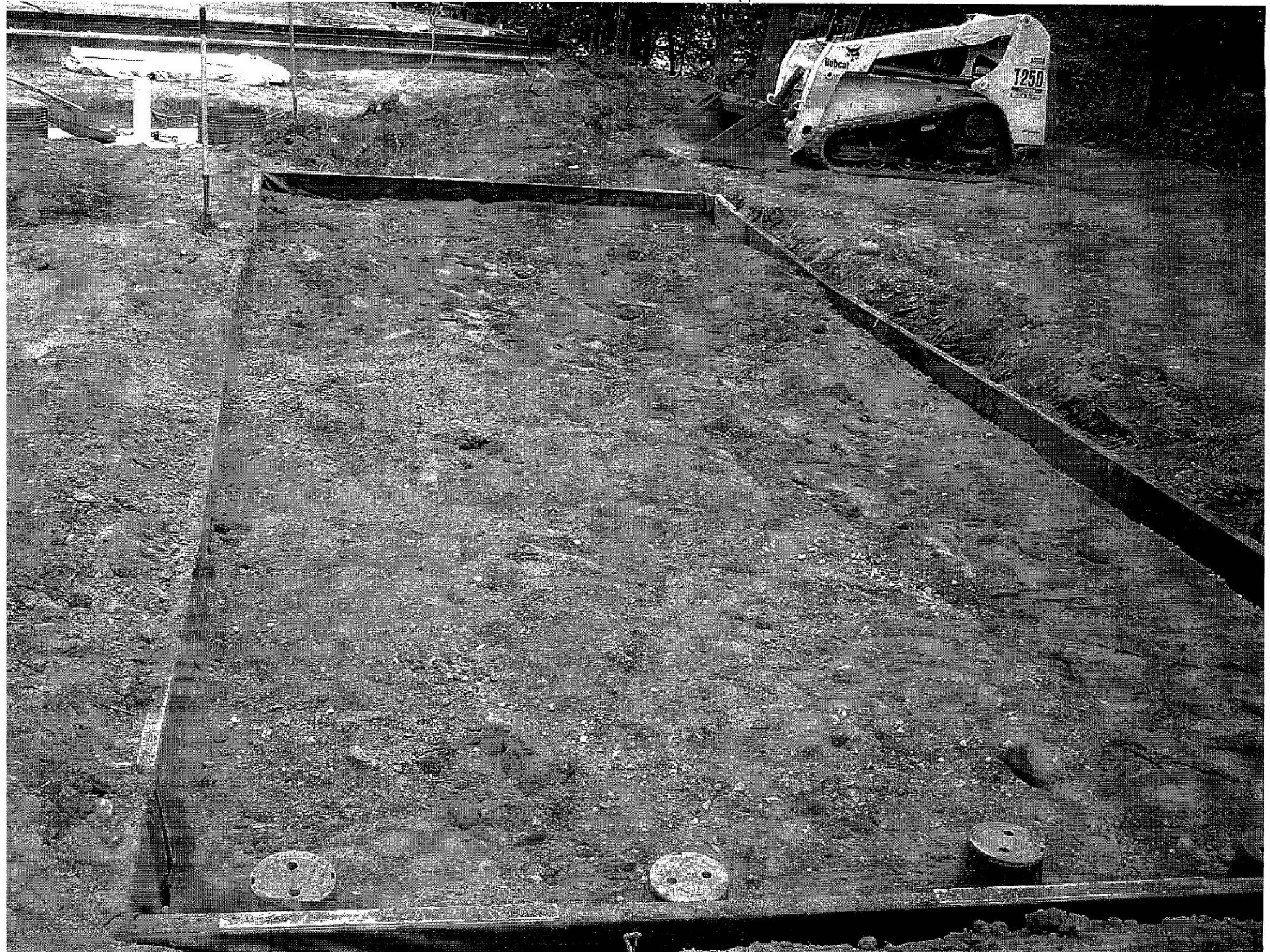
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE



21853 7/22/05

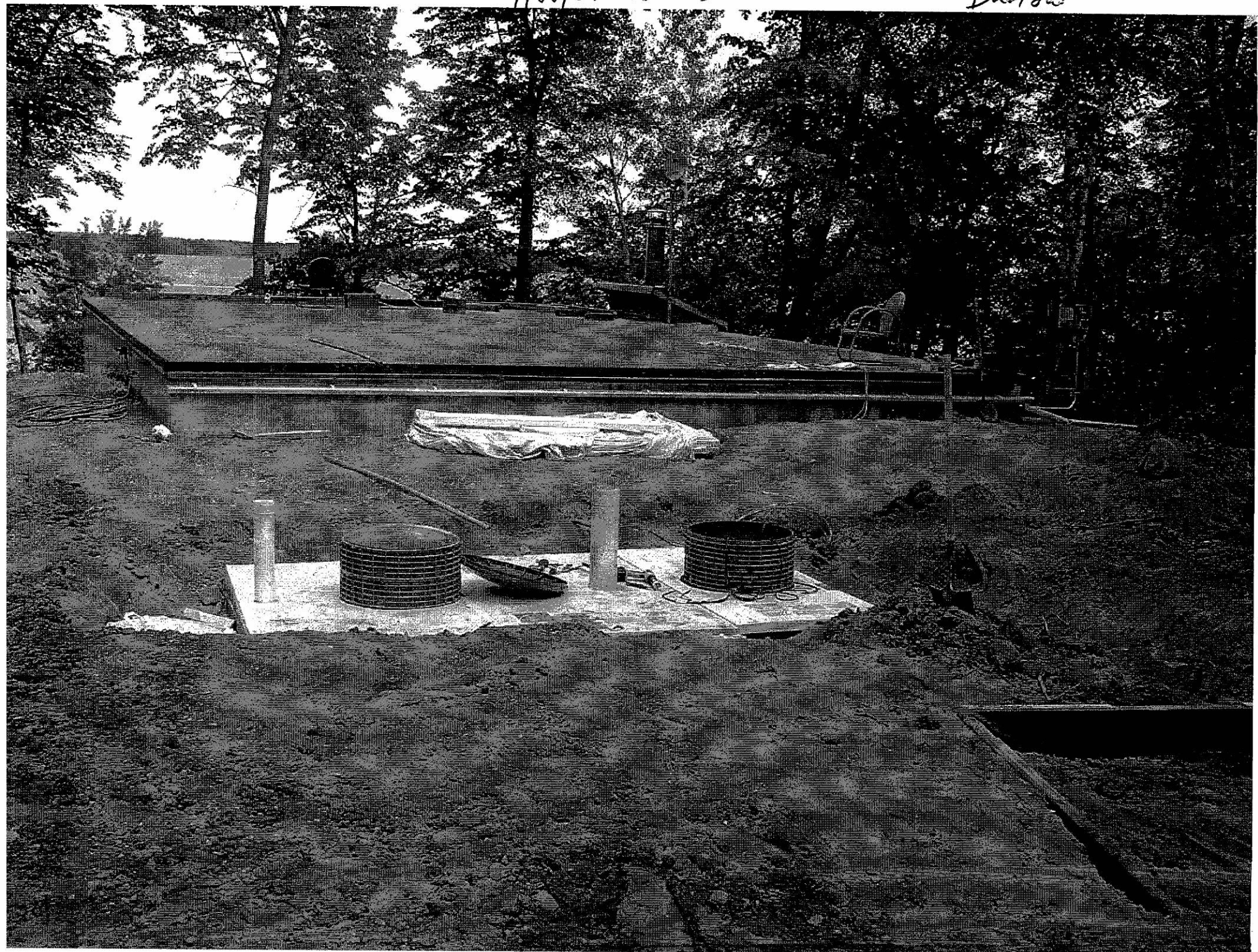
Darlow





7/22/05 21093

Darlow



# A. M. & Associates, Inc.

29465 442<sup>nd</sup> Lane  
Palisade, MN 56469  
(218) 768-4430

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

May 24, 2007

Jay Laursen  
12902 Lone Oak Drive  
Minnetonka, MN 55305

Parcel# 29-1-384100 & 29-1-384000

*AKC@ top  
5 years w/ annual inspection  
annual inspection by Aitkin  
7/19/07*

Dear Jay,

All components of your Septic System is performing as designed. Therefore we are recommending to Aitkin County that your Operating Permit be renewed every 5 years instead of annually. This means the Operating Permit you are about to renew will be good until May 31<sup>st</sup> 2012. The Operating Permit of \$50.00, required by Aitkin County should cover all 5 years.

We are also recommending that Maintenance be performed every other year instead of annually. Therefore, we will skip the Maintenance this year and perform it in the fall of 2008. If you prefer that we continue to do the Maintenance annually, let us know.

You will still be required to record your Water Meter readings *monthly*. These recordings played a part in the above decision.

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 2 year Service Contract with a one time Service, which is effective June 1, 2007 thru May 31, 2009.

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) A copy of this Letter (enclosed)
- 2) The Maintenance & Monitoring results for year June 1, 2006 thru May 31, 2007 (enclosed)
- 3) Your Monthly Water Meter readings (included on page 3 of your Maintenance Report)
- 4) A copy of the "Signed" Contract for Maintenance & Monitoring for June 1, 2007 thru May 31, 2009 (enclosed)
- 5) Your Completed Renewal Form for Operating Permit (you should have received from County)
- 6) A check to the County for \$50.00 for June 1, 2007 thru May 31, 2012 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.

Sincerely,



Annette O'Keeffe

# A. M. & Associates, Inc.

29465 442<sup>ND</sup> 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, 2006 thru May 31, 2007

Property Owner(s): **JAY LAURSEN**  
Home Address: **12902 LONE OAK DR.** Site Address: **BIG SANDY HIGHLANDS, 2<sup>ND</sup> ADDITION**  
**MINNETONKA, MN 55305** **BIG SANDY LAKE**  
Phone: **(952) 935-2460** Township: **SHAMROCK**  
Parcel Code: **29-1-384100 & 29-1-384000**

### DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

#### OSI BOTTOMLESS SAND FILTER - SIZED FOR 3 BEDROOMS

This ISTS is to have the wastewater gravity from the proposed 3 bedroom dwelling into a 1860 combination tank. From there, the liquids are pumped into a 12' x 30' OSI Bottomless Sand Filter.  
3 Bedrooms, 450 gpd, 13,500 gallons per month.

Installation Date: 2005 Installer: Ernie Darlow Phone#: (218) 426-4320

### JUNE 2006 THRU MAY 2007 MAINTENANCE & MONITORING RESULTS

Date Maintained: 08/2006

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.	Good
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. Pull pump and clean intake screen if necessary	Good
6. Check general appearance	Good

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

SEPTIC TANK	RESULTS
1. Measure sludge and scum level	Sludge level = 2" Scum level = 0"
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 2006 THRU MAY 2007 MAINTENANCE & MONITORING RESULTS**

<b>PRETREATMENT DEVICE</b>	<b>RESULTS</b>
1. Inspect for ponding; assess character and color of biomat	Good
2. Test pressurization of laterals (squirt test)	Good -height = approx 3ft
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)	Good
7. Inspect the appearance of the wastewater inside the unit for color and turbidity.	Effluent Clear

<b>DISPERSAL FIELD</b>	<b>RESULTS</b>
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.

<b>MISCELLANEOUS</b>	<b>RESULTS</b>	
1. Review water usage from water meter records.	<b>Date</b>	<b>Gallons Used</b>
	Feb 2006	390
	Mar	200
	Apr	800
	May	3030
	June	5640
	July	9280
	Aug	2840
	Sept - Oct	4630
	Nov	700
	Dec - Jan 2007	2170
	Feb	1640
	Mar - Apr	2290

**COMMENTS: ALL COMPONENTS LOOK GOOD.**

**Drainfield is sized for 3 Bedrooms, 450 gpd, 13,500 gallons per month. Seasonal residence shows water usage is well within limitations.**

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

**THEREFORE, THE OPERATING PERMIT RENEWAL DUE MAY 31, 2007 SHOULD BE GOOD FOR JUNE 1, 2007 THRU MAY 31, 2012.**

**A.M. & ASSOCIATES ALSO RECOMMENDS MAINTENANCE BE PERFORMED EVERY OTHER YEAR. THE NEXT MAINTENANCE WILL BE PERFORMED DURING THE SUMMER OF 2008.**

*Michael D. Clapp*

5/24/2007

**A. M. & Associates, Inc.**

29465 442<sup>nd</sup> Lane  
Palisade, MN 56469  
(218) 768-4430

Michael D. O'Keeffe  
Annette M. O'Keeffe **JUL 19 2007**  
SEPTIC SYSTEMS  
DESIGNS \* INSPECTIONS \* MAINTENANCE  
MPCA #1357

**TWO YEAR  
MAINTENANCE, MONITORING AND INSPECTION SERVICE CONTRACT  
FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM  
FOR June 1<sup>st</sup> 2007 thru May 31<sup>st</sup> 2009**

It is hereby agreed this \_\_\_\_\_ day of \_\_\_\_\_, 20 **07** by and between A.M. & Associates, Inc. and

Property Owner(s):	<u>JAY LAURSEN</u>	Parcel Code:	<u>29-1-384100 &amp; 29-1-384000</u>
Home Address:	<u>12902 LONE OAK DR. MINNETONKA, MN 55305</u>	Site Address:	<u>BIG SANDY HIGHLANDS, 2<sup>ND</sup> ADDITION</u>
Phone (home)	<u>(952) 935-2460</u>	Township	<u>SHAMROCK</u>
(work)	<u>(612) 670-0638</u>	Phone:	
(cell)	<u>(612) 708-6166</u>		
(fax)			

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

**This ISTS is to have the wastewater gravity from the proposed 3 bedroom dwelling into a 1860 combination tank. From there, the liquids are pumped into a 12' x 30' OSI Bottomless Sand Filter.**

Installation Date: 2005 Installer: Ernie Darlow Phone#: (218) 426-4300

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 June 1<sup>st</sup> 2007 and ending May 31<sup>st</sup> 2009.

**FEES**

**Maintenance, Monitoring & Inspection Service Contract      \$150.00 (DUE MAY 2009)**

<b>Sample Analysis Fees &amp; Supplies</b>	(approx)	N/A	<b>Due at time of sampling</b>
<b>*Time &amp; Mileage to Deliver Samples for Analysis</b>		N/A	<b>Due at time of sampling</b>

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.

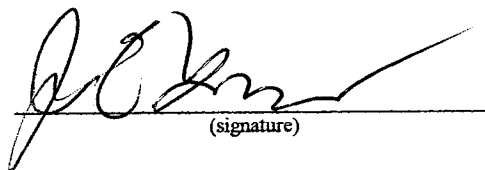
\*If at time of sampling, the Property Owner(s) wishes to transport the samples to Brainerd himself for analysis, within the *required time limit*, A.M. & Associates, Inc. will wave the time, mileage delivery fees of \$100.00.

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: JAY LAURSEN  
(please print)

  
(signature)

Date: 7/3/07

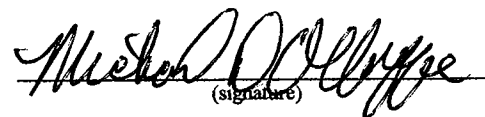
Spouse: \_\_\_\_\_  
(please print)

\_\_\_\_\_  
(signature)

Date: \_\_\_\_\_

**A.M. & Associates, Inc.:**

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

  
(signature)

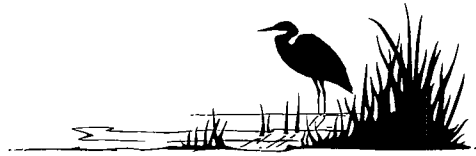
Date: 7-3-07

DATE	METER READING	DATE	METER READING	DATE	METER READING
12/1/06	09000010				
1/22	360				
3/2	400				
3/11	430				
4/1	600				
4/8	700				
4/19	850				
4/30	1170				
5/5	1400				
5/13	1550				
5/20	2200				
6/3	4330				
6/22	6300				
7/4	10070				
7/21	1452				
7/28	1863				
8/4	1935				
8/18	2133				
9/4	2219				
10/22	2682				
11/10	2693				
1/24	2726				
1/26	2757				
1/29	2969				
2/10	3038				
3/10	3133				
4/14	3214				
5/7	3362				
5/18	3483				
6/16	3849				
7/1	4591				
7/15	4900				

# AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW  
Aitkin, Minnesota 56431

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



July 19, 2007

RE: Septic Operating Permit #234; Zoning  
Permit # 31853; Parcel #29-1-384100

LAURSEN, JAY & CYNTHIA  
12902 LANE OAK DR  
MINNETONKA MN 55305

Dear Mr. and Mrs. Laursen:

Our office is in receipt of the Monitoring and Maintenance Results of your "Other Septic System," No. 234. The results indicate that your septic system is meeting the objectives of the Operating Permit and is reported to be operating and performing as designed. In addition, we are in receipt of a letter from the monitoring company, A.M. & Associates, Inc., recommending the Operating Permit renewal requirement be every five years instead of yearly. Therefore, Aitkin County is renewing your Operating Permit for a period of five years. Please take the time to read the permit and become familiar with the requirements. The next time it will be due is May of 2012. An annual review is still required by your maintenance provider and his reports submitted prior to the next permit renewal (5/31/12—A.M. & Associates, Inc).

Please be aware that continued good water use management and periodic septic system maintenance is still the responsibility of the landowner and that this system is not classified as a standard Individual Sewage Treatment System. Your continued diligence will help ensure the longevity and function of the septic system. Aitkin County encourages you to establish a monitoring and maintenance schedule with a qualified professional.

Sincerely,

A handwritten signature in black ink, appearing to read "Terry Neff".

Terry Neff  
Environmental Services Director  
Aitkin County

9

PH# 31853

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

**209 Second Street, NW  
Aitkin, Minnesota 56431**

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



October 25, 2011

RE: Renewed Operating Permit

To Jay Laursen:

This letter is to inform you that your Operating Permit (No. 234) has been renewed until May 31, 2017. 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,

Aitkin County Planning & Zoning and  
Environmental Services

# A. M. & Associates, Inc.

29465 442<sup>nd</sup> Lane  
Palisade, MN 56469  
(218) 768-4430

OCT 03 2011

Michael D. O'Keeffe

SEPTIC SYSTEMS  
DESIGNS \* INSPECTIONS \* MAINTENANCE  
MPCA #1357

September 22, 2011

Jay Laursen  
12902 Lone Oak Drive  
Minnetonka, MN 55305  
Parcel# 29-1-384100 & 29-1-384000

Dear Jay,

Your Septic System (OSI Bottomless Sand Filter), has been in operation since July of 2005. All components of this system has been working as designed. Because this is a seasonal residence, the amount of usage this system is receiving, and the excellent results observed since it was installed, we are once again recommending to Aitkin Planning and Zoning that they allow the renewal of the Operating Permit be a 5 year Permit. This means the Operating Permit you are about to renew will be good for the period of June 1, 2012 thru May 31, 2017. The Aitkin County Operating Permit fee of \$100.00 will cover all 5 years.

You are also 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 Report for June 1, 2007 thru May 31, 2012 (enclosed)
- 3) Your Water Meter readings for June 1, 2007 thru May 31, 2012 (included on pg 2 of Maintenance & Monitoring Report).
- 4) A copy of the "Signed" Contract for Maintenance & Monitoring for June 1, 2012 thru May 31, 2017 (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 the renewal of June 1, 2012 thru May 31, 2017 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.

**NOTE: The Sludge Level in the Septic Tank is at 12", we RECOMMEND to have the Tank Pumped.**

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



Michael O'Keeffe  
(218) 768-4430

Ck# 4814  
Receipt # 169933

10/25  
Renewed  
letter sent.

ok to renew  
2012-2017  
per Pete.  
10/14/11

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

**June 1, 2007 thru May 31, 2012**

Property Owner(s): **JAY LAURSEN**  
Home Address: **12902 LONE OAK DR. MINNETONKA, MN 55305**  
Phone: **(952) 935-2460**  
Parcel Code: **29-1-384100 & 29-1-384000**

Site Address: **BIG SANDY HIGHLANDS, 2<sup>ND</sup> ADDITION  
BIG SANDY LAKE**  
Township: **SHAMROCK**

**DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM**

**OSI BOTTOMLESS SAND FILTER - SIZED FOR 3 BEDROOMS**

**This ISTS is to have the wastewater gravity from the proposed 3 bedroom dwelling into a 1860 combination tank. From there, the liquids are pumped into a 12' x 30' OSI Bottomless Sand Filter. 3 Bedrooms, 450 gpd, 13,500 gallons per month.**

Installation Date: 2005                      Installer: Ernie Darlow                      Phone#: (218) 426-4320

**JUNE 2007 THRU MAY 2012 MAINTENANCE & MONITORING RESULTS**

Date Maintained: 09/2011

<b>CONTROL/ALARM PANEL</b>	<b>RESULTS</b>
1. Check pump operations in manual mode	Good
2. Check timer settings	Good
3. Record elapsed time meter and counter readings.	ETM = 3569 min    CNT = 5104
4. Confirm operation of audible and visual alarms	Good
5. Test Pump Amperage	21 Start    5.6 Run

<b>LIFT PUMPING STATION</b>	<b>RESULTS</b>
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. Pull pump and clean intake screen if necessary	Good
6. Check general appearance	Good

<b>EFFLUENT FILTERS/PUMP SCREENS</b>	<b>RESULTS</b>
1. Check effluent filter for buildup of biomat growth.	Done
2. Clean (if needed)	Cleaned

<b>SEPTIC TANK</b>	<b>RESULTS</b>
1. Measure sludge and scum level	Sludge level = 12"    Scum level = 12"
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.	NEEDS TO BE PUMPED
3. Check general appearance	Good



**JUNE 2007 THRU MAY 2012 MAINTENANCE & MONITORING RESULTS**

<b>PRETREATMENT DEVICE</b>	<b>RESULTS</b>
1. Inspect for ponding; assess character and color of biomat	Good
2. Test pressurization of laterals (squirt test)	Good -height = approx 3ft
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)	Good
7. Inspect the appearance of the wastewater inside the unit for color and turbidity.	Effluent Clear

<b>DISPERSAL FIELD</b>	<b>RESULTS</b>
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.

<b>MISCELLANEOUS</b>	<b>RESULTS</b>		
1. Review water usage from water meter records.	<b>Date</b>	<b>Meter Reading</b>	<b>Gallons Used</b>
	Feb 2006		390
	Mar		200
	Apr		800
	May		3030
	June		5640
	July		9280
	Aug		2840
	Sept -Oct		4630
	Nov		700
	Dec -- Jan 2007		2170
	Feb 2007		1640
	Apr 2007		2290
	6/17/2008	400	
	12/18/2008	19800	19400
	1/19/2009	22500	2,700
	5/15/2009	29200	6,700
	2/28/2010	57000	27,800
	9/11/2010	78200	21,200
	1/01/11	83700	5,500
8/01/11	99800	16,100	

**JUNE 2007 THRU MAY 2012 MAINTENANCE & MONITORING RESULTS**

COMMENTS: RECOMMEND – Septic Tank to be Pumped – Sludge Level = 12”.

ALL OTHER COMPONENTS LOOK GOOD.

Drainfield is sized for 3 Bedrooms, 450 gpd, 13,500 gallons per month. Seasonal residence shows water usage is well within limitations.

THIS SYSTEM HAS BEEN IN USE FOR 6 YEARS AND IS OPERATING AS DESIGNED. BECAUSE THIS IS A SEASONAL RESIDENCE AND THE MINIMAL USAGE OF THIS SEPTIC SYSTEM, A.M. & ASSOCIATES RECOMMENDS THAT THE OPERATING PERMIT CONTINUE TO BE A 5 YEAR PERMIT.

THEREFORE, THE OPERATING PERMIT RENEWAL DUE MAY 31, 2012 SHOULD BE GOOD FOR JUNE 1, 2012 THRU MAY 31, 2017.

A.M. & ASSOCIATES ALSO RECOMMENDS MAINTENANCE BE PERFORMED EVERY 3 YEARS. THE NEXT MAINTENANCE WILL BE PERFORMED DURING THE SUMMER OF 2014.



9/22/2011

**FIVE YEAR  
MAINTENANCE, MONITORING AND INSPECTION SERVICE CONTRACT  
FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM  
FOR June 1<sup>st</sup> 2012 thru May 31<sup>st</sup> 2017**

It is hereby agreed this \_\_\_\_\_ day of September, 20 11 by and between A.M. & Associates, Inc. and

Property Owner(s):	<u>JAY LAURSEN</u>	Parcel Code:	<u>29-1-384100 &amp; 29-1-384000</u>
Home Address:	<u>12902 LONE OAK DR. MINNETONKA, MN 55305</u>	Site Address:	<u>BIG SANDY HIGHLANDS, 2<sup>ND</sup> ADDITION</u>
Phone (home)	<u>(952) 935-2460</u>	Township	<u>SHAMROCK</u>
(work)	<u>(612) 670-0638</u>	Phone:	
(cell)	<u>(612) 708-6166</u>		
(fax)			

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

**This ISTS is to have the wastewater gravity from the proposed 3 bedroom dwelling into a 1860 combination tank. From there, the liquids are pumped into a 12' x 30' OSI Bottomless Sand Filter.**

Installation Date: 2005 Installer: Ernie Darlow Phone#: (218) 426-4300

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.

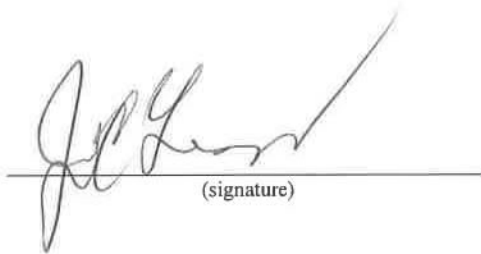
This contract shall remain in force for a period of one year, beginning June 1<sup>st</sup> 2012 and ending May 31<sup>st</sup> 2017.

With the Signature(s) of the Property Owner below, A.M. & Associates, Inc. agrees to provide inspection, monitoring and routine maintenance service as outlined in 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: JAY LAURSEN  
(please print)

  
(signature)

Date: 9/22/11

Spouse: \_\_\_\_\_  
(please print)

\_\_\_\_\_  
(signature)

Date: \_\_\_\_\_

**A.M. & Associates, Inc.:**

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

  
(signature)

Date: 09/22/2011

# AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW Room# 100

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



4/18/2017

*Mike O'Kette*  
*Septic Check*

Zachary & Christine Laursen  
1120 SUMAC LANE  
Minnetonka, MN 55305

Re: Operating Permit # 234  
Zoning Permit #31853  
Parcel ID#29-1-384100

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



Misc. (OFFICE USE ONLY) App. # App-2017-001836

Aitkin County Planning &amp; 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](mailto:aitkinpz@co.aitkin.mn.us)

Charge		Cost	Quantity	Total	Note
Operating Permit Renewal added 05/30/2017 2:25 PM \$100		\$100.00	x 1	\$100.00	
<b>Grand Total</b>					
				<b>Total</b>	<b>\$100.00</b>
<b>Payment</b>					
<b>Method:</b>	Check	<b>Note:</b>	check 1228		
<b>Date:</b>	05/30/2017				
<b>Made By:</b>	Zachary Laursen				
<b>Confirmed By:</b>	Kalea Suihkonen				

## Kalea Suihkonen

---

**From:** Brian Koski [Brian@septiccheck.com]  
**Sent:** Tuesday, May 30, 2017 12:57 PM  
**To:** Kalea Suihkonen  
**Cc:** Zak.Laursen@millenniumhealth.com; Maintenance Office  
**Subject:** Zak Laursen Meter readings  
**Attachments:** laursenjay.compliancedocd2162017-02162017155159.pdf; laursen\_watermeterreadings.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Kalea,

I have attached a spreadsheet with water meter readings for Zak/Jay Laursen property on big sandy. We completed a compliance inspection in February for the property, and I have attached that documentation for you. Zak has contracted us to help with the system maintenance moving forward, so you can expect to get our normal reports in the future.

Let me know if you need anything else.

Thanks,

**Brian Koski**  
President

**SEPTIC  CHECK**

Phone: 320.983.2447

Cell: 218-428-0391

[Brian@SepticCheck.com](mailto:Brian@SepticCheck.com)

[SepticCheck.com](http://SepticCheck.com)

---

This email has been scanned for email related threats and delivered safely by Mimecast.  
For more information please visit <http://www.mimecast.com>

---

# SEPTIC CHECK

EXPERT SERVICE. LASTING VALUE. CLEAN WATER

## Septic System Compliance Inspection – Existing System

DATE: 2/16/2017

**Property Owner:** Jay Laursen  
**Street Address:** 19372 – 520<sup>th</sup> Lane  
**City, State, Zip:** McGregor, MN 55760

Jay,

A compliance inspection was performed at the above location. Soil borings were conducted to determine the seasonal high water table, the drain field was also inspected to ensure there was no ponding or leakage, and the septic tank was inspected and was found to be compliant.

The original design and inspection records showed clay soil with mottling in the upper 12" of the profile. It was determined at the time of the original installation by the designer and county staff that this part of the E horizon and not to be considered the limiting condition. The clay subsoil was removed and the sand filter was installed over washed sand down to the well drained sandy subsoil. The soil boring conducted at the time of this inspection found a very similar soil profile to the original records. The county was contacted to verify the compliance of this system due to the variance from the normal soils compliance procedures. It was determined that the intent of the original design and inspection was to install the system as we found it during the inspection. The system is therefore compliant.

We recommend this advanced system be serviced by a septic professional every 12 months. If you have any further question please contact us.

Sincerely,



Brian Koski, Lic. No. B-276130  
*Operation and Maintenance Manager*  
Cell: 218-428-0391  
[brian@septiccheck.com](mailto:brian@septiccheck.com)



Minnesota Pollution  
Control Agency  
520 Lafayette Road North  
St. Paul, MN 55155-4194

# Compliance Inspection Form

## Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

**Inspection results** based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.

Submit completed form to Local Unit of Government (LUG) and system owner within 15 days

For local tracking purposes:

### System Status

System status on date (mm/dd/yyyy): 2/16/2017

**Compliant – Certificate of Compliance**  
*(Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)*

**Noncompliant – Notice of Noncompliance**  
*(See Upgrade Requirements on page 3.)*

#### Reason(s) for noncompliance (check all applicable)

- Impact on Public Health (Compliance Component #1) – Imminent threat to public health and safety
- Other Compliance Conditions (Compliance Component #3) – Imminent threat to public health and safety
- Tank Integrity (Compliance Component #2) – Failing to protect groundwater
- Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwater
- Soil Separation (Compliance Component #4) – Failing to protect groundwater
- Operating permit/monitoring plan requirements (Compliance Component #5) – Noncompliant

### Property Information

Parcel ID# or Sec/Twp/Range: 29-1-384100

Property address: 19372 - 520<sup>th</sup> Lane McGregor MN 55760

Reason for inspection: Property Transfer

Property owner: Jay Laursen

Owner's phone: 612-670-0638

or

Owner's representative: \_\_\_\_\_

Representative phone: \_\_\_\_\_

Local regulatory authority: Aitkin County

Regulatory authority phone: 218-927-7342

Brief system description: 1860 gallon split tank, Biotube Pump vault, 12' x 30' bottom draining sand filter

#### Comments or recommendations:

According to county record, the sand filter was constructed by removing all of the clay subsoil to the sandy soil deep in the profile. Clean sand was then imported to build the bottom draining sand filter. It appears there is atleast 4' of sand in the sand filter.

### Certification


I hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage.

Inspector name: Brian Koski

Certification number: 7898

Business name: Septic Check

License number: 2624

Inspector signature: 

Phone number: 320-983-2447

### Necessary or Locally Required Attachments

- Soil boring logs
- System/As-built drawing
- Forms per local ordinance
- Other information (list): \_\_\_\_\_

**1. Impact on Public Health – Compliance component #1 of 5**

**Compliance criteria:**

System discharges sewage to the ground surface.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System discharges sewage to drain tile or surface waters.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System causes sewage backup into dwelling or establishment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**Any "yes" answer above indicates the system is an imminent threat to public health and safety.**

Comments/Explanation:

**Verification method(s):**

- Searched for surface outlet
- Searched for seeping in yard/backup in home
- Excessive ponding in soil system/D-boxes
- Homeowner testimony (See Comments/Explanation)
- "Black soil" above soil dispersal system
- System requires "emergency" pumping
- Performed dye test
- Unable to verify (See Comments/Explanation)
- Other methods not listed (See Comments/Explanation)

**2. Tank Integrity – Compliance component #2 of 5**

**Compliance criteria:**

System consists of a seepage pit, cesspool, drywell, or leaching pit. <i>Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Sewage tank(s) leak below their designed operating depth. If yes, which sewage tank(s) leaks:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**Any "yes" answer above indicates the system is failing to protect groundwater.**

Comments/Explanation:

**Verification method(s):**

- Probed tank(s) bottom
- Examined construction records
- Examined Tank Integrity Form (Attach)
- Observed liquid level below operating depth
- Examined empty (pumped) tanks(s)
- Probed outside tank(s) for "black soil"
- Unable to verify (See Comments/Explanation)
- Other methods not listed (See Comments/Explanation)

**3. Other Compliance Conditions – Compliance component #3 of 5**

- a. Maintenance hole covers are damaged, cracked, unsecured, or appear to be structurally unsound.  Yes\*  No  Unknown
- b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety.  Yes\*  No  Unknown  
**\*System is an imminent threat to public health and safety.**

Explain:

- c. System is non-protective of ground water for other conditions as determined by inspector.  Yes\*  No  
**\*System is failing to protect groundwater.**

Explain:

**4. Soil Separation – Compliance component #4 of 5**

Date of installation: 7/22/2005  Unknown  
(mm/dd/yyyy)

Shoreland/Wellhead protection/Food beverage lodging?  Yes  No

**Compliance criteria:**

For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment:  Yes  No

Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.

Non-performance systems built April 1, 1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:  Yes  No

Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock \*

"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080.2350 or 7080.2400 (Advanced Inspector License required)  Yes  No

Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.

**Any "no" answer above indicates the system is failing to protect groundwater.**

**Verification method(s):**

Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local requirements differ.

- Conducted soil observation(s) (Attach boring logs)
- Two previous verifications (Attach boring logs)
- Not applicable (Holding tank(s), no drainfield)
- Unable to verify (See Comments/Explanation)
- Other (See Comments/Explanation)

**Comments/Explanation:**

The original design and inspection showed clay soil with mottling in the upper 12" of the profile. It was determined at the time of the original installation by the designer and county staff that this part of the E horizon and not to be considered the limiting condition. The clay subsoil was removed and the sand filter was installed over washed sand.

**Indicate depths or elevations**

A. Bottom of distribution media	
B. Periodically saturated soil/bedrock	
C. System separation	
D. Required compliance separation*	

\*May be reduced up to 15 percent if allowed by Local Ordinance.

**5. Operating Permit and Nitrogen BMP\* – Compliance component #5 of 5**  Not applicable

Is the system operated under an Operating Permit?  Yes  No If "yes", A below is required

Is the system required to employ a Nitrogen BMP?  Yes  No If "yes", B below is required

BMP = Best Management Practice(s) specified in the system design

**If the answer to both questions is "no", this section does not need to be completed.**

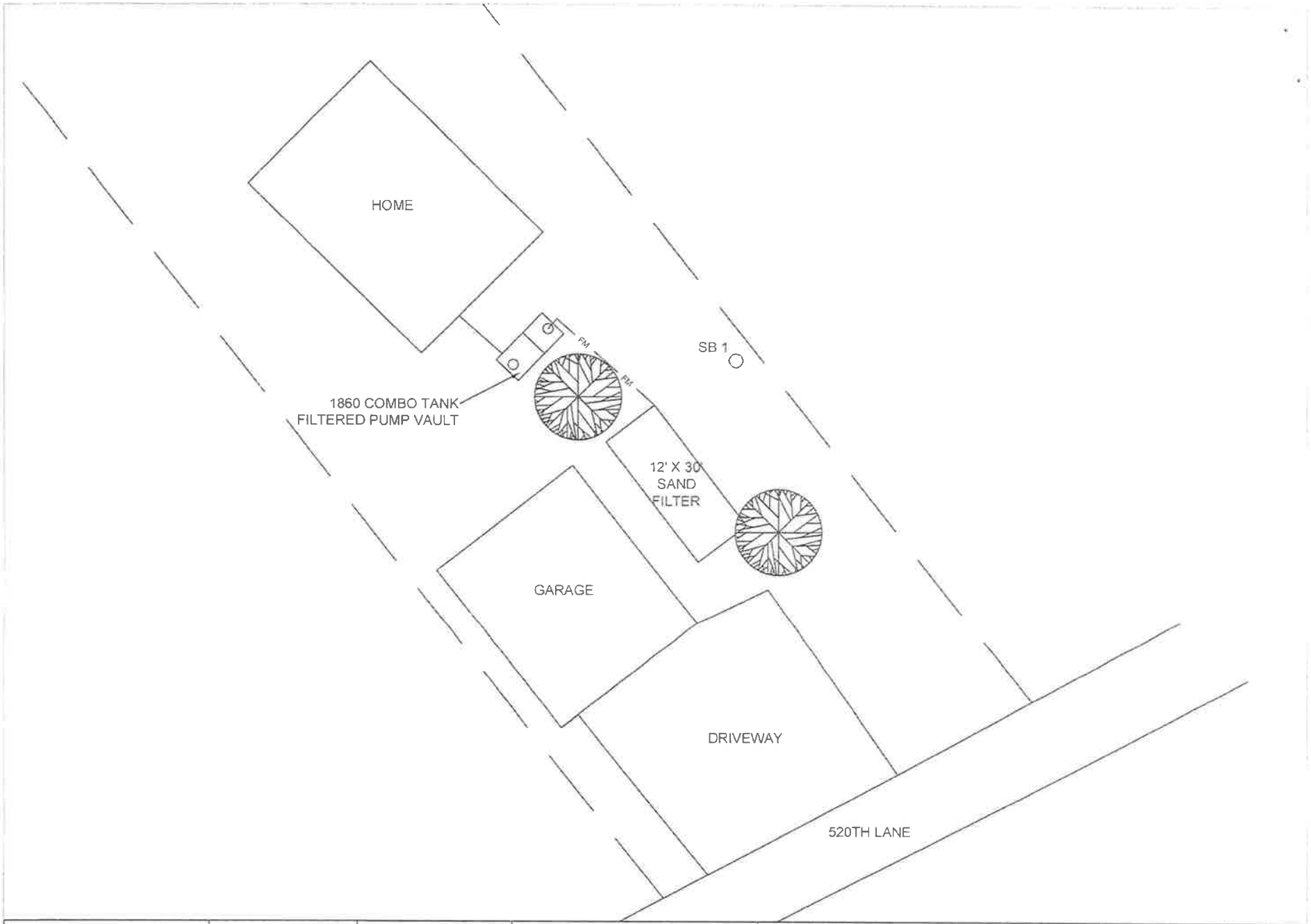
**Compliance criteria**

a. Operating Permit number: 234  Yes  No  
Have the Operating Permit requirements been met?

b. Is the required nitrogen BMP in place and properly functioning?  Yes  No

**Any "no" answer indicates Noncompliance.**

**Upgrade Requirements** (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, repaired, replaced, or its use discontinued, notwithstanding any local ordinance that is more strict. This provision does not apply to systems in shoreland areas, Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.



PREPARED FOR: Laursen, Jay	PROPERTY LOCATION 19372 - 520th Lane McGregor MN 55760	LEGAL DESCRIPTION SEC. 4, TWP. 49, RG. 23 Aitkin County, Minnesota. pld# 29-1-394100	SEPTIC CHECK INC. 6074 KEYSTONE RD MILACA, MN 56353 (320)-963-2447 (FAX) (320)-963-2151	I hereby certify that this site plan was prepared by me or under my direct supervision. Brian Kaski M. P. C. A. License # 2624 DATE 2/16/2017	PAGE TITLE SEPTIC SYSTEM	SHEET NUMBER 1 OF 1
-------------------------------	--	---	---	---	-----------------------------	------------------------



# OSTP Soil Observation Log

Project ID:

v 03.19.15



Client/ Address:		Jay Laursen / 19372 520th In McGregor			Legal Description/ GPS:					
Soil parent material(s): (Check all that apply) <input type="checkbox"/> Outwash <input type="checkbox"/> Lacustrine <input type="checkbox"/> Loess <input checked="" type="checkbox"/> Till <input type="checkbox"/> Alluvium <input type="checkbox"/> Bedrock <input type="checkbox"/> Organic Matter										
Landscape Position: (check one) <input checked="" type="checkbox"/> Summit <input type="checkbox"/> Shoulder <input type="checkbox"/> Back/Side Slope <input type="checkbox"/> Foot Slope <input type="checkbox"/> Toe Slope							Slope shape:			
Vegetation:		grass		Soil survey map units:		Slope%:		Elevation:		
Weather Conditions/Time of Day:			sunny / 10 am				Date:		02/16/17	
Observation #/Location:		soil boring 1 / edge of yard in native soil				Observation Type:		Auger		
Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	Structure			
							Shape	Grade	Consistence	
8	Loam		10YR 3/2				Granular	Weak	Friable	
16	Silt Loam		10YR 5/2	7.5YR 5/6	Concentrations	S4	Blocky	Moderate	Friable	
30	Silt Loam		10YR 4/4				Blocky	Moderate	Friable	
37	Clay Loam		10YR 4/4				Blocky	Moderate	Friable	
Comments:										
I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.										
Brian Koski						2624		2/16/2017		
(Designer/Inspector)			(Signature)			(License #)		(Date)		

Zach Laursen
--------------

	Meter reading	days	GPD
12/1/2015	206200		
1/1/2016	207600	31	45.2
2/1/2016	208300	31	22.6
3/1/2016	210500	29	75.9
4/1/2016	212000	31	48.4
5/1/2016	213500	30	50.0
6/1/2016	215100	31	51.6
7/1/2016	216400	30	43.3
8/1/2016	218200	31	58.1
9/1/2016	219400	31	38.7
10/1/2016	220100	30	23.3
11/1/2016	221000	31	29.0
12/1/2016	222000	30	33.3
1/1/2017	223500	31	48.4
2/1/2017	224000	31	16.1
3/1/2017	225100	28	39.3
5/24/2017	228700	84	42.9
		-42879	5.3

**AITKIN COUNTY ENVIRONMENTAL SERVICES**

MAY 30 2017

**OPERATING PERMIT FOR WASTEWATER  
TREATMENT AND DISPERSAL**

**OPERATING PERMIT #:** 234

**ORIGINAL DATE ISSUED:** 10/4 /2005

**ZONING PERMIT #:** 31853

**RENEWAL PERIOD:**

**PARCEL #:** 29-1-384100

**RENEWAL EXPIRATION:** 5 /31/2017

**PERMITTEE:** Zachary & Christine Laursen

**MAILING ADDRESS:** 1120 SUMAC LANE  
Minnetonka, MN 55305

**PROPERTY ADDRESS:**  
19372 520th Ln.  
McGregor, MN 55760

612-202-7529

**TELEPHONE:** ~~(952) 935-2560~~

**LEGAL:** Lot 87 and E part of 86 in Big Sandy Highlands 2nd

**FEE PAID:** 100      **DATE PAID:**      **RECEIPT:**      **CK #:**

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

This permit is effective on the issuance date identified above.

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

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

  
\_\_\_\_\_  
**Signature of Permittee**

5/17/17  
\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**Signature of Permitting Authority**

\_\_\_\_\_  
**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**

System will gravity from proposed 3 bedroom house to a 1860 combination tank. From there the liquids are pumped into a 12X30' OSI bottomless sandfilter. Flow 450 gal. Anticipated life=20-30 years. Cost of construction \$7,000+. Cost of Operation \$10/mo and Annual monitoring \$150/year.

**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 FREQUENC
Fecal Coliform	< 1,000 cfu / 100ml	Sand Filter Effluent	ANNUALLY	Grab	ANNUALLY
Fats, Oil and Greases	< 30 mg/l	Sand Filter Effluent	ANNUALLY	Grab	ANNUALLY
TSS	< 65 mg/l	Sand Filter Effluent	ANNUALLY	Grab	ANNUALLY
BOD5	< 220 mg/l	Sand Filter Effluent	ANNUALLY	Grab	ANNUALLY
					ANNUALLY
Flow	450 gal/day	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY

**C. MAINTENANCE REQUIREMENTS:**

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

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

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



6/2/2017

Zachary & Christine Laursen  
1120 SUMAC LANE  
Minnetonka, MN 55305

Re: Operating Permit # 234  
Zoning Permit # 31853  
Parcel # 29-1-384100

Dear Permittee:

This letter is to inform you that your Operating Permit has been renewed until 5/31/2021 .

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 cursive script that reads "Kaleas".

Aitkin County Planning & Zoning

**Septic Check**

6074 Keystone Rd  
Milaca, MN 56353

Renewal 2021

320-983-2447  
Fax: 320-983-2151

Mail To: Current Resident  
12902 Lane Oak Dr.  
Minnetonka, MN  
55305

**PROPERTY INFORMATION**

Jay Laursen or Zachary Laursen  
Location: 19372 - 520th Lane  
McGregor  
Tax ID: 29-1-384100; 2  
  
Use: Residential, Single Family  
System Design Flow: 450  
GENERAL SYSTEM TYPE: Sand 1x Year w/5 Yr Test

Fold Here

Fold Here

**ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT**

Inspected: 12/14/2017 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Company:  
Septic Check

Work Performed By:  
Blesener Dave

Submitted 12/18/2017 by:  
Angie Tvedt

**COMMENTS & GENERAL INSPECTION NOTES**

No Deficiencies Noted

**GENERAL SITE & SYSTEM CONDITIONS**

The General Site and System Conditions were:	Fully Inspected
Components accessible for service:	YES
All required service performed (if no - specify omitted inspection items in notes):	YES
Surfacing effluent from any component (including mound seepage):	NO
Components appear to be watertight - no visual leaks:	YES
Improper encroachment (structures/impervious surfaces); cover; or settling problems observed:	NO

**ONSITE SEWAGE SYSTEM INSPECTION DETAIL**

<b>TANK: Septic Tank - 2 Compartment - 1,860 Combo Tank w/Biotube Pump Vault</b>		
This component was:	Fully Inspected	
Effluent level within operational limits (if NO explain in comments):	YES	
All required baffles in place (N/A = No baffles required):	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	0	
Compartment 1 Sludge accumulation (Inches, if other specify):	1"	
Compartment 2 Scum accumulation (Inches, if other specify):	0	
Compartment 2 Sludge accumulation (Inches, if other specify):	0	
Pumping recommended:	NO	
<b>Panel: Control - 1 Pump - Drainfield Dose Panel</b>		
This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	0.6 MIN	
Pump 1: off hours (override in parentheses - if present):	1 HRS	
Pump 1: gallons per dose (override in parentheses - if present):	N/A	
Pump 1: ETM hours (override in parentheses - if present):	7011	
Pump 1: Cycle Count (override in parentheses - if present):	10434	
<b>Pump: Effluent Pump - Drainfield Dose Pump</b>		
This component was:	Fully Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	N/A	
<b>Media Filter: Sand Filter - 12'x30' Sand Filter</b>		
This component was:	Fully Inspected	
Ponding present? If YES explain in comments:	NO	
Average squirt height (if performed) (feet, if other specify):	N/A	
Lateral lines flushed:	NO	

# SAMPLING REPORT

12/28/2017

Location: 19372 - 520th Lane  
McGregor  
29-1-384100; 29-1-384000  
Owner: Zack Laursen  
Use: Single Family

**Service Company:**  
**Septic Check**  
6074 Keystone Rd  
Milaca, MN 56353  
320-983-2447  
**Laboratory: Pace Analytical**

**Sample Date: 12/14/2017**    **Sample entered by: Angie Tvedt**    **Report submitted: 12/28/2017**

Notes: Septic Check will re-sample for fecal.

## ONSITE SEWAGE SYSTEM SAMPLING DETAIL

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Control - 1 Pump - Drainfield Dose Panel	Effluent	Flow	<450 GPD	24.2
Septic Tank - 2 Compartment - 1,860 Combo Tank	Effluent	Fecal	,000 cfu/100	3900                    -Limit Exceeded
Septic Tank - 2 Compartment - 1,860 Combo Tank	Effluent	FOG	<30 mg/L	<5.1
Septic Tank - 2 Compartment - 1,860 Combo Tank	Effluent	CBOD	<220 mg/L	<40
Septic Tank - 2 Compartment - 1,860 Combo Tank	Effluent	TSS	<65 mg/L	36

*This report indicates certain characteristics of the sample taken at the time of visit. In no way is this report a guarantee of operation or future performance.*



**Septic Check**

6074 Keystone Rd  
Milaca, MN 56353

320-983-2447  
Fax: 320-983-2151

**PROPERTY INFORMATION**

Zachary Laursen  
Location: 19372 - 520th Lane  
McGregor  
Tax ID: 29-1-384100; 2  
  
Use: Residential, Single Family  
System Design Flow: 450  
GENERAL SYSTEM TYPE: Sand 1x Year w/5 Yr Test

Mail To: Zack Laursen  
11120 Sumac Lane  
Minnetonka, MN  
55304

**ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT**

Inspected: 09/06/2018 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Company: Septic Check      Work Performed By: Blesener Dave      Submitted 09/13/2018 by: Angie Tvedt

**COMMENTS & GENERAL INSPECTION NOTES**

No Deficiencies Noted

**GENERAL SITE & SYSTEM CONDITIONS**

The General Site and System Conditions were:	Fully Inspected
Components accessible for service:	YES
All required service performed (if no - specify omitted inspection items in notes):	YES
Surfacing effluent from any component (including mound seepage):	NO
Components appear to be watertight - no visual leaks:	YES
Improper encroachment (structures/impervious surfaces); cover; or settling problems observed:	NO

**ONSITE SEWAGE SYSTEM INSPECTION DETAIL**

<b>TANK: Septic Tank - 2 Compartment - 1,860 Combo Tank w/Blotube Pump Vault</b>		
This component was:	Fully Inspected	
Effluent level within operational limits (if NO explain in comments):	YES	
All required baffles in place (N/A = No baffles required):	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	1"	
Compartment 1 Sludge accumulation (Inches, if other specify):	6"	
Compartment 2 Scum accumulation (Inches, if other specify):	0	
Compartment 2 Sludge accumulation (Inches, if other specify):	2"	
Pumping recommended:	NO	
<b>Panel: Control - 1 Pump - Drainfield Dose Panel</b>		
This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	1 MIN	
Pump 1: off hours (override in parentheses - if present):	1 HRS	
Pump 1: gallons per dose (override in parentheses - if present):	N/A	
Pump 1: ETM hours (override in parentheses - if present):	7614	
Pump 1: Cycle Count (override in parentheses - if present):	11318	
<b>Pump: Effluent Pump - Drainfield Dose Pump</b>		
This component was:	Fully Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	N/A	
<b>Media Filter: Sand Filter - 12'x30' Sand Filter</b>		
This component was:	Fully Inspected	
Ponding present? If YES explain in comments:	NO	
Average squirt height (if performed) (feet, if other specify):	N/A	
Lateral lines flushed:	YES	

**Septic Check**

6074 Keystone Rd  
Milaca, MN 56353

320-983-2447  
Fax: 320-983-2151

Mail To: Zack Laursen  
11120 Sumac Lane  
Minnetonka, MN  
55304

**PROPERTY INFORMATION**

Zachary Laursen  
Location: 19372 - 520th Lane  
McGregor  
Tax ID: 29-1-384100; 2

Use: Residential, Single Family  
System Design Flow: 450  
GENERAL SYSTEM TYPE: Sand 1x Year w/5 Yr Test

Fold Here

**ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT**

Inspected: 08/20/2019 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Company:  
Septic Check

Work Performed By:  
Blesener Dave

Submitted 09/18/2019 by:  
Abbie Gobel

Fold Here

**COMMENTS & GENERAL INSPECTION NOTES**

No Deficiencies Noted

**GENERAL SITE & SYSTEM CONDITIONS**

The General Site and System Conditions were:	Fully Inspected
Components accessible for service:	YES
All required service performed (if no - specify omitted inspection items in notes):	YES
Surfacing effluent from any component (including mound seepage):	NO
Components appear to be watertight - no visual leaks:	YES
Improper encroachment (structures/impervious surfaces); cover; or settling problems observed:	NO

**ONSITE SEWAGE SYSTEM INSPECTION DETAIL**

**TANK: Septic Tank - 2 Compartment - 1,860 Combo Tank w/Biotube Pump Vault**

This component was:	Fully Inspected
Effluent level within operational limits (if NO explain in comments):	YES
All required baffles in place (N/A = No baffles required):	YES
Compartment 1 Scum accumulation (Inches, if other specify):	2
Compartment 1 Sludge accumulation (Inches, if other specify):	0
Compartment 2 Scum accumulation (Inches, if other specify):	0
Compartment 2 Sludge accumulation (Inches, if other specify):	6
Pumping recommended:	NO

**Panel: Control - 1 Pump - Drainfield Dose Panel**

This component was:	Fully Inspected
Panel functioning (including alarm):	YES
Pump 1: on minutes (override in parentheses - if present):	N/A
Pump 1: off hours (override in parentheses - if present):	N/A
Pump 1: gallons per dose (override in parentheses - if present):	N/A
Pump 1: ETM hours (override in parentheses - if present):	8411
Pump 1: Cycle Count (override in parentheses - if present):	12484

**Pump: Effluent Pump - Drainfield Dose Pump**

This component was:	Fully Inspected
Controls functioning:	YES
Tested gallons per minute flow:	N/A

**Media Filter: Sand Filter - 12'x30' Sand Filter**

This component was:	Fully Inspected
Ponding present? If YES explain in comments:	NO
Average squirt height (if performed) (feet, if other specify):	N/A
Lateral lines flushed:	YES

# SAMPLING REPORT

12/27/2019

Location: 19372 - 520th Lane  
McGregor  
29-1-384100; 29-1-384000

Owner: Zack Laursen  
Use: Single Family

## Service Company:

### Septic Check

6074 Keystone Rd  
Milaca, MN 56353  
320-983-2447

Laboratory: RMB Environmental Laboratories

Sample Date: 08/20/2019 Sample entered by: Heather Johnson Report submitted: 12/05/2019

Notes:

## ONSITE SEWAGE SYSTEM SAMPLING DETAIL

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Control - 1 Pump - Drainfield Dose Panel	Effluent	Flow	<450 GPD	335.1
Septic Tank - 2 Compartment - 1,860 Combo Tank	Effluent	Fecal	,000 cfu/100	189000
Septic Tank - 2 Compartment - 1,860 Combo Tank	Effluent	FOG	<30 mg/L	
Septic Tank - 2 Compartment - 1,860 Combo Tank	Effluent	CBOD	<220 mg/L	
Septic Tank - 2 Compartment - 1,860 Combo Tank	Effluent	TSS	<65 mg/L	

*This report indicates certain characteristics of the sample taken at the time of visit. In no way is this report a guarantee of operation or future performance.*

append to 31853

**Septic Check**

6074 Keystone Rd  
Milaca, MN 56353

320-983-2447  
Fax: 320-983-2151

**PROPERTY INFORMATION**

Zachary Laursen  
Location: 19372 - 520th Lane  
McGregor  
Tax ID: 29-1-384100; 2

Use: Residential, Single Family  
System Design Flow: 450  
GENERAL SYSTEM TYPE: Sand 1x Year w/5 Yr Test

Mail To: Zack Laursen  
11120 Sumac Lane  
Minnetonka, MN  
55304

Fold Here

Fold Here

**ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT**

Inspected: 07/21/2020 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Company: Septic Check      Work Performed By: Blesener Dave      Submitted 07/29/2020 by: Heather Johnson

**COMMENTS & GENERAL INSPECTION NOTES**  
**No Deficiencies Noted**

**GENERAL SITE & SYSTEM CONDITIONS**

The General Site and System Conditions were:	Fully Inspected
Components accessible for service:	YES
All required service performed (if no - specify omitted inspection items in notes):	YES
Surfacing effluent from any component (including mound seepage):	NO
Components appear to be watertight - no visual leaks:	YES
Improper encroachment (structures/impervious surfaces); cover; or settling problems observed:	NO

**ONSITE SEWAGE SYSTEM INSPECTION DETAIL**

<b>TANK: Septic Tank - 2 Compartment - 1,860 Combo Tank w/Biotube Pump Vault</b>		
This component was:	Fully Inspected	
Effluent level within operational limits (if NO explain in comments):	YES	
All required baffles in place (N/A = No baffles required):	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	2	
Compartment 1 Sludge accumulation (Inches, if other specify):	2	
Compartment 2 Scum accumulation (Inches, if other specify):	0	
Compartment 2 Sludge accumulation (Inches, if other specify):	3	
Pumping recommended:	NO	
<b>Panel: Control - 1 Pump - Drainfield Dose Panel</b>		
This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	NA	
Pump 1: off hours (override in parentheses - if present):	NA	
Pump 1: gallons per dose (override in parentheses - if present):	NA	
Pump 1: ETM hours (override in parentheses - if present):	9087	
Pump 1: Cycle Count (override in parentheses - if present):	13474	
<b>Pump: Effluent Pump - Drainfield Dose Pump</b>		
This component was:	Fully Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	NA	
<b>Media Filter: Sand Filter - 12'x30' Sand Filter</b>		
This component was:	Fully Inspected	
Ponding present? If YES explain in comments:	NO	
Average squirt height (if performed) (feet, if other specify):	NA	
Lateral lines flushed:	NO	

**Septic Check**

6074 Keystone Rd  
Milaca, MN 56353

320-983-2447  
Fax: 320-983-2151

**PROPERTY INFORMATION**

Zachary Laursen  
Location: 19372 - 520th Lane  
McGregor  
Tax ID: 29-1-384100; 2

Use: Residential, Single Family  
System Design Flow: 450  
GENERAL SYSTEM TYPE: Sand 1x Year w/5 Yr Test  
*no test*

Mail To: Zack Laursen  
11120 Sumac Lane  
Minnetonka, MN  
55304

**ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT**

Inspected: 07/20/2021 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Company:  
Septic Check

Work Performed By:  
Michael Pederson

Submitted 07/29/2021 by:  
Heather Johnson

**COMMENTS & GENERAL INSPECTION NOTES**

No Deficiencies Noted

**GENERAL SITE & SYSTEM CONDITIONS**

The General Site and System Conditions were:	Fully Inspected
Components accessible for service:	YES
All required service performed (if no - specify omitted inspection items in notes):	YES
Surfacing effluent from any component (including mound seepage):	NO
Components appear to be watertight - no visual leaks:	YES
Improper encroachment (structures/imperious surfaces); cover; or settling problems observed:	NO

**ONSITE SEWAGE SYSTEM INSPECTION DETAIL**

<b>TANK: Septic Tank - 2 Compartment - 1,860 Combo Tank w/Biotube Pump Vault</b>		
This component was:	Fully Inspected	
Effluent level within operational limits (if NO explain in comments):	YES	
All required baffles in place (N/A = No baffles required):	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	6	
Compartment 1 Sludge accumulation (Inches, if other specify):	0	
Compartment 2 Scum accumulation (Inches, if other specify):	0	
Compartment 2 Sludge accumulation (Inches, if other specify):	0	
Pumping recommended:	NO	
<b>Panel: Control - 1 Pump - Drainfield Dose Panel</b>		
This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	40	
Pump 1: off hours (override in parentheses - if present):	1	
Pump 1: gallons per dose (override in parentheses - if present):	NA	
Pump 1: ETM hours (override in parentheses - if present):	10233	
Pump 1: Cycle Count (override in parentheses - if present):	15152	
<b>Pump: Effluent Pump - Drainfield Dose Pump</b>		
This component was:	Fully Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	NA	
<b>Media Filter: Sand Filter - 12'x30' Sand Filter</b>		
This component was:	Fully Inspected	
Ponding present? If YES explain in comments:	NO	
Average squirt height (if performed) (feet, if other specify):	NA	
Lateral lines flushed:	NO	

# SAMPLING REPORT

Location: 19372 - 520th Lane  
McGregor  
29-1-384100; 29-1-384000

Owner: Zack Laursen  
Use: Single Family

## Service Company:

### Septic Check

6074 Keystone Rd  
Milaca, MN 56353  
320-983-2447

Laboratory: A W Labs

Sample Date: 07/20/2021 Sample entered by: Heather Johnson Report submitted: 08/09/2021

Notes:

## ONSITE SEWAGE SYSTEM SAMPLING DETAIL

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Control - 1 Pump - Drainfield Dose Panel	Effluent	Flow	<450 GPD	461
Septic Tank - 2 Compartment - 1,860 Combo Tank	Effluent	Fecal	,000 cfu/100	>242000 -Limit Exceeded
Septic Tank - 2 Compartment - 1,860 Combo Tank	Effluent	FOG	<30 mg/L	
Septic Tank - 2 Compartment - 1,860 Combo Tank	Effluent	CBOD	<220 mg/L	202
Septic Tank - 2 Compartment - 1,860 Combo Tank	Effluent	TSS	<65 mg/L	52

*This report indicates certain characteristics of the sample taken at the time of visit. In no way is this report a guarantee of operation or future performance.*

# Septic Check

6074 Keystone Rd  
Milaca, MN 56353

320-983-2447  
Fax: 320-983-2151

Mail To: Zack Laursen  
11120 Sumac Lane  
Minnetonka, MN  
55304

## PROPERTY INFORMATION

Zachary Laursen  
Location: 19372 - 520th Lane  
McGregor  
Tax ID: 29-1-384100; 2  
Use: Residential, Single Family  
System Design Flow: 450  
GENERAL SYSTEM TYPE: Sand 1x a yr NO TEST

Fold  
Here

## ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT

Inspected: 06/30/2022 - Inspection Type: ROUTINE - Correction Status: Corrections in progress

Company:  
Septic Check

Work Performed By:  
Lucas Caldwell

Submitted 07/11/2022 by:  
Heather Johnson

Fold  
Here

## COMMENTS & GENERAL INSPECTION NOTES

### No Deficiencies Noted

The only thing if found that needed attention was that the system could use some pumping. I called Zach and he said he would be calling Kangas to get the tank pumped soon.

## GENERAL SITE & SYSTEM CONDITIONS

The General Site and System Conditions were:	Fully Inspected
Components accessible for service:	YES
All required service performed (if no - specify omitted inspection items in notes):	YES
Surfacing effluent from any component (including mound seepage):	NO
Components appear to be watertight - no visual leaks:	YES
Improper encroachment (structures/impervious surfaces); cover; or settling problems observed:	NO

## ONSITE SEWAGE SYSTEM INSPECTION DETAIL

### TANK: Septic Tank - 2 Compartment - 1,860 Combo Tank w/Biotube Pump Vault

This component was:	Fully Inspected	
Effluent level within operational limits (if NO explain in comments):	YES	
All required baffles in place (N/A = No baffles required):	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	6	
Compartment 1 Sludge accumulation (Inches, if other specify):	8	
Compartment 2 Scum accumulation (Inches, if other specify):	2	
Compartment 2 Sludge accumulation (Inches, if other specify):	6	
Pumping recommended:	YES	

### Panel: Control - 1 Pump - Drainfield Dose Panel

This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	-	
Pump 1: off hours (override in parentheses - if present):	-	
Pump 1: gallons per dose (override in parentheses - if present):	-	
Pump 1: ETM hours (override in parentheses - if present):	10923	
Pump 1: Cycle Count (override in parentheses - if present):	16161	

### Pump: Effluent Pump - Drainfield Dose Pump

This component was:	Fully Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	-	

### Media Filter: Sand Filter - 12'x30' Sand Filter

This component was:	Fully Inspected	
Ponding present? If YES explain in comments:	NO	
Average squirt height (if performed) (feet, if other specify):	-	
Lateral lines flushed:	NO	

This report indicates certain characteristics of the onsite sewage system at the time of visit. In no way is this report a guarantee of operation or future performance.



# SAMPLING REPORT

Location: 19372 - 520th Lane  
McGregor  
**29-1-384100; 29-1-384000**

Owner: Zack Laursen  
Use: Single Family

## Service Company:

**Septic Check**  
6074 Keystone Rd  
Milaca, MN 56353  
320-983-2447

Sample Date: 06/30/2022 Sample entered by: Heather Johnson Report submitted: 07/11/2022

Notes:

## ONSITE SEWAGE SYSTEM SAMPLING DETAIL

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Control - 1 Pump - Drainfield Dose Panel	Effluent	Flow	<450 GPD	292.5

*This report indicates certain characteristics of the sample taken at the time of visit. In no way is this report a guarantee of operation or future performance.*

## AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

307 Second St NW, Room 219  
Aitkin, Minnesota 56431

(P): (218) 927-7342

(F): (218) 927-4372

(E): aitkinpz@co.aitkin.mn.us



8/2/2022

Zachary & Christine Laursen  
14721 Wellington Rd  
Wayzata, MN 55391

Re: Operating Permit # 234  
Zoning Permit # 31853  
Parcel ID# 29-1-384100

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 September 30th. 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 is enclosed. If there are no changes to the current Operating Permit, please submit all of the following to the County Office to renew the Operating Permit: (If any boxes below are checked, then we have received that item.)

- 9-19-22 <sup>SW</sup> Signed Operating Permit (enclosed)  
<sup>SW</sup> \$150 permit renewal fee (a \$50 late fee will apply if not paid by 9/30/22)
- Monitoring and maintenance activities report by Service Provider
  - A table of your water usage

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 Service Provider and make any necessary changes, have samples taken and tested, tanks pumped, and any other activities that were required to meet the requirements of your permit.

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

Sincerely,

Aitkin County Planning & Zoning

Invoice #56195 (09/19/2022)

2. Zoning/Land Use Permit Applications Misc. (OFFICE USE ONLY) App. # App-2022-009556, UID # 206435

ZACHARY LAURSEN

(612) 202-7829

11120 SUMAC LN, MINNETONKA, MN 55305

Aitkin County Planning & Zoning / Environmental Services  
307 Second St. NW Room 219

Aitkin, MN 56431

Phone: 218-927-7342

Fax: 218-927-4372

Email: aitkinpz@co.aitkin.mn.us

Charge		Cost	Quantity	Total	Note
Operating Permit Renewal added 09/19/2022 2:42 PM \$150		\$150.00	x 1	\$150.00	
<b>Grand Total</b>				<b>Total</b>	<b>\$150.00</b>
<b>Payment #50189</b>					
<b>Method:</b>	Check		1054		
<b>Date:</b>	09/19/2022	<b>Note:</b>	OP 234 2022 RENEWAL		
<b>Made By:</b>	ZACHARY LAURSEN				
<b>Confirmed By:</b>	Shannon Wiebusch				

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

**ISSUANCE DATE:**

9/30/2022

**RENEWAL PERIOD:**

5 YEAR

**OPERATING PERMIT #:** 234

**ZONING PERMIT #:** 31853

**PARCEL #:** 29-1-384100

**PERMITEE:**

Zachary & Christine Laursen

**MAILING ADDRESS:**

14721 Wellington Rd  
Wayzata, MN 55391

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.

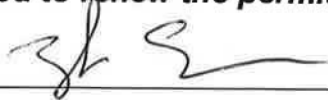
This permit is effective on the issuance date identified above.

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.

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

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

Signature of Permittee



Date

8/5/22

Signature of Permitting  
Authority



Date

9-19-22

## A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM

System will gravity from proposed 3 bedroom house to a 1860 combination tank. From there the liquids are pumped into a 12X30' OSI bottomless sandfilter. Flow 450 gal. Anticipated life=20-30 years. Cost of construction \$7,000+. Cost of Operation \$10/mo and Annual monitoring \$150/year.

## 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	< 1,000 cfu / 100ml	Sand Filter Effluent	Every 5 Years	Grab	Every 5 Years
Fats, Oil and Greases	< 30 mg/l	Sand Filter Effluent	Every 5 Years	Grab	Every 5 Years
TSS	< 65 mg/l	Sand Filter Effluent	Every 5 Years	Grab	Every 5 Years
BOD5	< 220 mg/l	Sand Filter Effluent	Every 5 Years	Grab	Every 5 Years
Flow	450 gal/day	Water Meter	MONTHLY	Record on Log Sheet	Every 5 Years

## C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY
Flow	Water Meter	MONTHLY
Pressurization of Laterals	Sand Filter	EVERY 5 YEARS
Pumps, Floats & Alarms	Pump Chamber	EVERY 5 YEARS
Solids Removal & Water Tightness	Septic tank(s)	EVERY 5 YEARS
Surface Discharge	Dispersal System	EVERY 5 YEARS
Vegetative Cover	Dispersal System	EVERY 5 YEARS

## D. MONITORING AND REPORTING REQUIREMENTS:

Monitoring results obtained during each calendar year shall be submitted no later than September 30th of that year to:

Aitkin County Environmental Services  
307 2nd Street NW, Room 219  
Aitkin, MN 56431

The monitoring reports shall be signed by the Permittee. Copies are to be retained by the Permittee. Any sampling and laboratory testing procedures shall be performed in accordance with Standard Methods at a Minnesota Department of Health approved laboratory. All sampling and testing costs shall be the responsibility of the Permittee. Monitoring plans may be modified as necessary and reapproved by Aitkin County Environmental Services.

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.

The owner has secured the services of **Septic Check** as the Service Provider or qualified individual for this system. The Service Provider or qualified individual is hereby authorized to report the required monitoring data and routine maintenance service records to Aitkin County Environmental Services.

**E. MITIGATION PLAN:**

- 1) If weeping occurs; lower dosing rate, lower water usage, or increase distribution area. Waste strength: if fecals exceed limit -reduce effluent strength, increase retention time or add disinfection.
- 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.

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

**307 Second Street NW Room# 219**

**Aitkin, Minnesota 56431**

PH: (218) 927-7342

FX: (218) 927-4372



9/19/2022

Zachary & Christine Laursen  
14721 Wellington Rd  
Wayzata, MN 55391

Re: Operating Permit # 234  
Zoning Permit # 31853  
Parcel # 29-1-384100

Dear Permittee:

This letter is to inform you that your Operating Permit has been renewed until 9/30/2027 .

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 Check

6074 Keystone Rd  
Milaca, MN 56353

320-983-2447  
Fax: 320-983-2151

Mail To: Zack Laursen  
11120 Sumac Lane  
Minnetonka, MN  
55304

## PROPERTY INFORMATION

Location: 19372 - 520th Lane  
McGregor  
Tax ID: 29-1-384100; 2

Use: Residential, Single Family  
System Design Flow: 450  
GENERAL SYSTEM TYPE: Sand 1x a yr NO TEST

## ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT

Inspected: 06/06/2023 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Company:  
Septic Check

Work Performed By:  
Kyle Wade

Submitted 06/07/2023 by:  
Heather Johnson

## COMMENTS & GENERAL INSPECTION NOTES

No Deficiencies Noted

## GENERAL SITE & SYSTEM CONDITIONS

The General Site and System Conditions were:	Fully Inspected
Components accessible for service:	YES
All required service performed (if no - specify omitted inspection items in notes):	YES
Surfacing effluent from any component (including mound seepage):	NO
Components appear to be watertight - no visual leaks:	YES
Improper encroachment (structures/impervious surfaces); cover; or settling problems observed:	NO

## ONSITE SEWAGE SYSTEM INSPECTION DETAIL

### TANK: Septic Tank - 2 Compartment - 1,860 Combo Tank w/Biotube Pump Vault

This component was:	Fully Inspected	
Effluent level within operational limits (if NO explain in comments):	YES	
All required baffles in place (N/A = No baffles required):	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	1	
Compartment 1 Sludge accumulation (Inches, if other specify):	0	
Compartment 2 Scum accumulation (Inches, if other specify):	0	
Compartment 2 Sludge accumulation (Inches, if other specify):	0	
Pumping recommended:	NO	

### Panel: Control - 1 Pump - Drainfield Dose Panel

This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	40 sec	
Pump 1: off hours (override in parentheses - if present):	1 hr	
Pump 1: gallons per dose (override in parentheses - if present):	-	
Pump 1: ETM hours (override in parentheses - if present):	11610	
Pump 1: Cycle Count (override in parentheses - if present):	17167	

### Pump: Effluent Pump - Drainfield Dose Pump

This component was:	Fully Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	-	

### Media Filter: Sand Filter - 12'x30' Sand Filter

This component was:	Fully Inspected	
Ponding present? If YES explain in comments:	NO	
Average squirt height (if performed) (feet, if other specify):	-	
Lateral lines flushed:	NO	

This report indicates certain characteristics of the onsite sewage system at the time of visit. In no way is this report a guarantee of operation or future performance.



# SAMPLING REPORT

Location: 19372 - 520th Lane  
McGregor  
29-1-384100; 29-1-384000

Owner: Zack Laursen  
Use: Single Family

## Service Company:

**Septic Check**  
6074 Keystone Rd  
Milaca, MN 56353  
320-983-2447

Sample Date: 06/06/2023 Sample entered by: Heather Johnson Report submitted: 06/07/2023

Notes:

## ONSITE SEWAGE SYSTEM SAMPLING DETAIL

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Control - 1 Pump - Drainfield Dose Panel	Effluent	Flow	<450 GPD	295

*This report indicates certain characteristics of the sample taken at the time of visit. In no way is this report a guarantee of operation or future performance.*