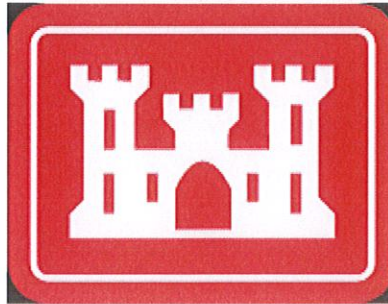


# *Septic System Design*

US Army Corps of Engineers -  
Sandy Lake Recreational Area



**Owner Address:**

180 5th St. E., Suite 700  
St. Paul, MN 55101

**Project Information:**

22205 531<sup>st</sup> Lane  
McGregor MN 55760

PID# 18-0-043000  
Aitkin County

**Septic System Design Completed By:**

Brian Koski  
Septic Check  
6074 Keystone Road  
Milaca, MN 56353  
Lic # 2624  
Phone: 888-983-2447

## General Information

<b>Township/City:</b>	LIBBY TWP		
<b>Taxpayer Name:</b>	USA CORP OF ENGINEERS		
<b>Taxpayer Address:</b>			
<b>Property Address:</b>	22205 531st Ln		
<b>Township:</b>	50	<b>Lake Number:</b>	1006200
<b>Range:</b>	24	<b>Lake Name:</b>	BIG SANDY LAKE
<b>Section:</b>	25	<b>Acres:</b>	20.55
<b>Green Acres:</b>	No	<b>School District:</b>	4.00
<b>Plat:</b>			
<b>Brief Legal Description:</b>	(NE SE) LOT 11 (ALL FLOWAGE)		

## Tax Information

<b>Class Code 1:</b>	Federal Public Property
<b>Class Code 2:</b>	Unclassified
<b>Class Code 3:</b>	Unclassified
<b>Homestead:</b>	Non Homestead
<b>Assessment Year:</b>	2019
<b>Estimated Land Value:</b>	\$350,700.00
<b>Estimated Building Value:</b>	\$79,100.00
<b>Estimated Total Value:</b>	\$429,800.00
<b>Prior Year Total Taxable Value:</b>	\$0.00
<b>Current Year Net Tax (Specials Not Included):</b>	\$0.00
<b>Total Special Assessments:</b>	\$0.00
<b>**Current Year Balance Not Including Penalty:</b>	\$0.00
<b>Delinquent Taxes:</b>	No

**\* For more information on delinquent taxes, please call the Aitkin County Treasurer's Office at 218-927-7325.**

**\*\* Balance Due on a parcel does not include late payment penalties.**

Property Owner: Army Corps of Engineers – Sandy Lake Dam McGregor MN

## **Description of Wastewater Treatment and Dispersal System**

This holding tank design is for the Sandy Lake Dam campground and recreation area on Big Sandy Lake north of McGregor MN. The wastewater at this facility is currently served by a state permitted wastewater treatment plant. The wastewater plant is going to be decommissioned and the owner of the property will replace the existing system with new large capacity holding tanks.

## **Flow Determination**

Existing water use data is available from the existing treatment plant. The long-term average flow is approximately 1,900 GPD. Daily peak flows range from 2,000 GPD to 8,000 GPD during heavy use times in the summer months. Water use at the facility is generated from RV campsites, onsite bathrooms, dump station, and office buildings.

## **Proposed system upgrades**

The existing wastewater plant will be properly abandoned. The existing collection system and lift station will remain in place and will be upgraded with new pumps and controls. A new 2" force main will be installed from the lift station and will be plumbed to the new holding tanks. Two 10,000 gallon holding tanks are proposed. A high-level alarm will be installed in the outlet end of the second tank to alert staff when this tank is 50% full. This alarm float will be mounted on a float tree and the alarm junction box will be mounted on the lift station control panel.

## **Tank Specifications**

1. The septic tanks proposed are Wieser Concrete W10,000 holding tanks or approved equal.
2. Bed tanks in 6" of pea gravel or ¾" minus rock.
3. New tanks are to be vacuum tested prior to backfill.
4. Tanks are to be insulated if final cover is less than 24". Use 2" thick foam board insulation if required.
5. Tank risers are to be 24" concrete or ultra-rib riser.
6. Tank access covers are to be casting inserts with bolt down cast iron lids.
7. The inside of the tank is to be coated with a tar coal sealant.
8. Tank backfill shall be compacted in lifts with 3" minus granular backfill.
9. A class 5 driveway will be provided for septic pumping access.

## **System Management**

The owner shall contract with a licensed maintainer to provide the holding tank pumping services. The maintainer shall visit the site on call or at least weekly to remove effluent from the tanks. Septage disposal shall be completed under MPCA guidelines. An electronic alarm system will be installed in the tanks to alert onsite staff when tanks are nearing capacity.

**Additional notes:**

Refer to the Army Corps of Engineers specs for the lift station and control panel upgrades for more information on the overall scope of this project.

Keep all vehicles and construction equipment off septic area. Rutting and/or compacting the soil will change the percolation rates and may lead to system failure.

Owner to verify all property lines.

Contractor to verify well setbacks of 50' to the proposed tanks.

Installer to verify all elevations, dimensions, and ensure proper fall to pipes. Pitch pump chamber outlet to ensure complete drainback to pump chamber.

Establish turf to prevent erosion and freezing.

Each tank is to be pumped through the maintenance cover when serviced. Do not pump through inspection pipes.

Owner is responsible for all costs involved in servicing, monitoring, and mitigating the system.

All construction to be performed in accordance with MN Rule 7080 and the Aitkin County septic ordinance.

**Maintenance Requirements**

See attached operating permit or management plan for details



# Holding tank Design

Property Owner: **Amry Corps Engineers** Date: **7/29/2019**

Site Address: **Big Sandy Dam - 22205 531st In Mcg** PID: 18-0-043000

Comments: \_\_\_\_\_

instructions:  = site specific input  = adjust if desired  = self-calculated (DO NOT ADJUST)

1)  bedroom Type  II Other Establishment System

2)  1900 GPD design flow

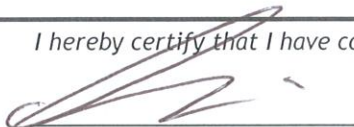
Yes Lift station to holding tank (lift basket < 100 gal treat as sewer line, > 100 gal treat as tank)

3)  20,000 Gallon Holding tank (minimum) at  127.43 gpi

4)  42 inches from bottom of tank to "Hi Level" float (50% full when alarm activates)

5)  4700 gallons reserve capacity (after High Level Alarm is activated)

*I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.*

  
\_\_\_\_\_  
Designer Signature

\_\_\_\_\_  
Septic Check  
Company

\_\_\_\_\_  
2624  
License#

\_\_\_\_\_  
7/29/2019  
Date

## INSPECTOR CHECK LIST - Holding Tank

Big Sandy Dam - 22205 531st In McGregor MN

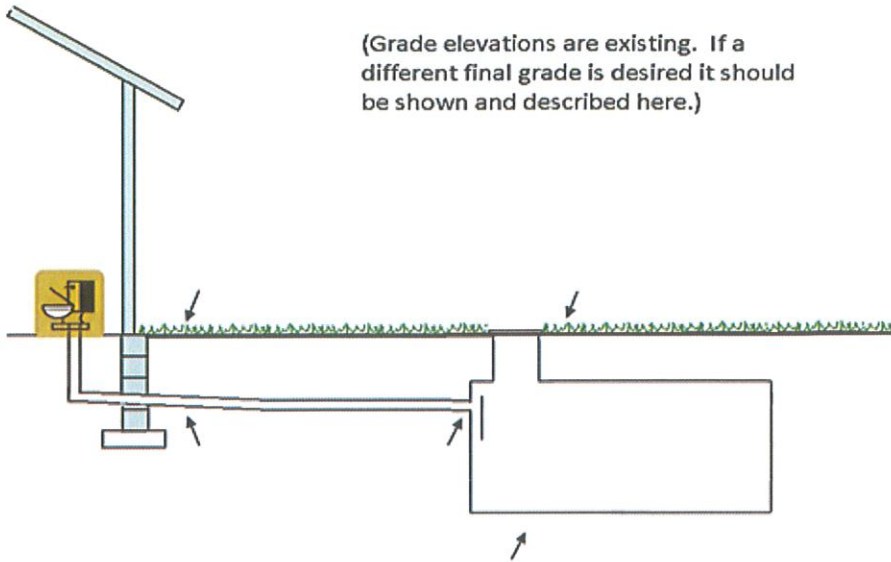
- WELL setbacks: 20'-50' to sewer line req's MDH pressure test form (5 psi for 15 min)  
50' to everything
- PROPERTY LINES setback: 10' to everything
- Road setback: platted : 10' prop line. Metes & bounds : out of road easement, or outer ditch
- LAKE / BLUFF setback: 20' for bluff. Lakes: GD \_\_, RD \_\_, NE \_\_. Protected wetland \_\_.
- Building setbacks: 10' for everything.
- WATER LINE under pressure 10' to tank & sewer line. (else sewer line > 12" below)
  
- Sewer line & tank connection (no hard 90's, long sweep 90 or 2- 45's, slope minimum 1" in 8' = 1% )  
(no depth req's, clean out every 100', Sch 40 pipe)
- Yes Lift station to Holding tank (lift basket < 100 gallons treat as sewer line, >100 gal treat as tank)
  
- Holding tank and risers (water tight risers, insulated, proper depth, existing verified by pumping)  
mfg \_\_\_\_\_ 20000 gallons
  
- Riser within 12" of grade, 6"+ access pipe to grade.
  
- High Level Alarm (set at 75% capacity) (electrical or mechanical) 42 inches from bottom of tank
  
- Water tight testing form
  
- Re-use existing tank certification
- Abandon existing system if necessary
- monitoring plan and type \_\_\_\_\_
- well abandonment form if necessary

System Elevations

benchmark

\_\_\_\_\_ benchmark \_\_\_\_\_

(Grade elevations are existing. If a different final grade is desired it should be shown and described here.)



Sewer pipe  
exiting house

\_\_\_\_\_ Grade

\_\_\_\_\_ Pipe

Holding Tank

\_\_\_\_\_ Grade

\_\_\_\_\_ inlet

\_\_\_\_\_ Tank bottom



## Septic System Management Plan for Holding Tank Systems

The goal of a septic system is to protect human health and the environment by properly treating wastewater before returning it to the environment. Your holding tank system is designed to store your used water before it is recycled back into our lakes, streams and groundwater.

This **management plan** will identify the operation and maintenance activities necessary to ensure compliance with applicable rules and regulations. Some of these activities must be performed by you, the homeowner. Other tasks must be performed by a licensed septic maintainer. However, it is YOUR responsibility to make sure all tasks get accomplished in a timely manner.

The University of Minnesota's *Septic System Owner's Guide* contains additional tips and recommendations designed to extend the effective life of your system and save you money over time.

***Proper septic system design, installation, operation and maintenance means safe and clean water!***

Property Owner: US Army Corps of Engineers - Sandy Lake Recreational

Property Address: 22205 531st Ln McGregor MN Property ID: 18-0-043000

System Designer: Septic Check License #: 2624

System Installer: TBD License #:

Service Provider/Maintainer: TBD Phone:

Permitting Authority: Aitkin County Phone: 218-927-7342

Permit #: Date Inspected:

Keep this Management Plan with your Septic System Owner's Guide. The Septic System Owner's Guide includes a folder to hold maintenance records including pumping, inspection and evaluation reports. Ask your septic professional to also:

- Attach permit information, designer drawings and as-builts of your system, if they are available.
- Keep copies of all pumping records and other maintenance and repair invoices with this document.
- Review this document with your maintenance professional at each visit; discuss any changes in product use, activities, or water-use appliances.

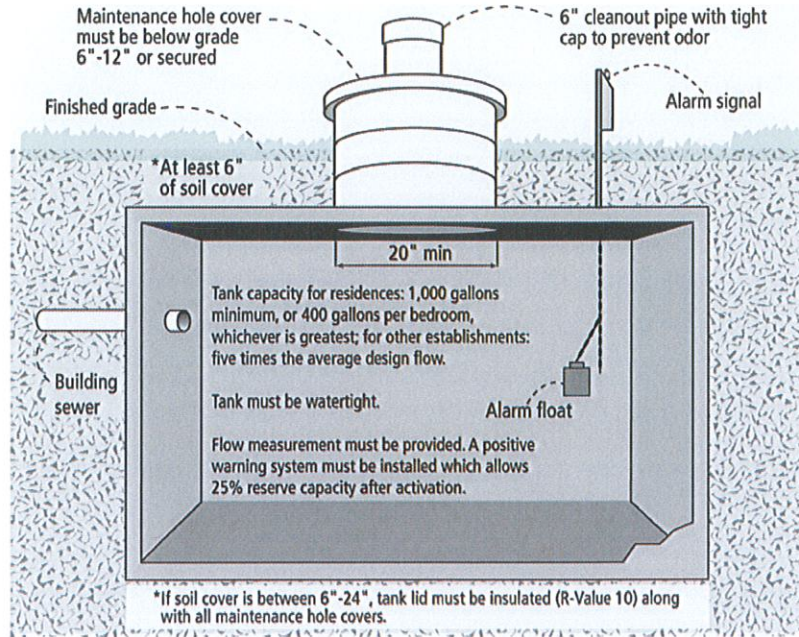
For a copy of the *Septic System Owner's Guide*, call 1-800-876-8636 or go to <http://shop.extension.umn.edu/>

<http://septic.umn.edu>





Your Holding Tank



Dwelling Type	Well Construction
Number of bedrooms: _____ System capacity/ design flow (gpd): <u>4000</u> Anticipated average daily flow (gpd): <u>1900</u> Comments _____ In-home business? ___ What type? <u>campground</u> Number of occupants _____	Well depth (ft): <u>n/a - deep well</u> <input type="checkbox"/> Cased well Casing depth: _____ <input type="checkbox"/> Other (specify): _____ Distance from septic (ft): <u>50' +</u> Is the well on the design drawing? <input type="radio"/> Y <input checked="" type="radio"/> N

Holding Tank	
<input type="radio"/> One tank: Tank volume: _____ gallons <input checked="" type="radio"/> Two tanks: Tank volume: <u>20,000</u> gallons <input type="checkbox"/> Tank is constructed of <u>concrete</u>	<input type="checkbox"/> Flow measurement device: <u>Lift Station</u> <input type="checkbox"/> Location: <u>east of tanks</u> <input type="checkbox"/> Alarm <input checked="" type="checkbox"/> visual <input checked="" type="checkbox"/> audible <input type="checkbox"/> Reserve %: <u>50</u>
<input type="checkbox"/> Service contract held by: _____ <input type="checkbox"/> Service contract is attached to this management plan	



## Homeowner Management Tasks

These *operation and maintenance* activities are your responsibility. Use the chart on page 6 to track your activities.

Identify the service intervals recommended by your system designer and your local government. The tank assessment for your system will be the **shortest interval of these three intervals**. Your pumper/maintainer will determine if your tank needs to be pumped.

Tank capacity ÷ (# of occupants X 50 Gallons/day) = # of days between cleaning

OR

Within 24 hours of alarm signal

System Designer: check every 5 days

Local Government: check every \_\_\_\_\_ days

My tank needs to be emptied  
every 5 days

### Seasonally

- Monitor alarm daily* – make sure the alarm has not signaled. Alarms signal when your holding tank is nearly full; contact your maintainer.
- Measure* and note your average daily water usage on page 5. Conserving water saves you money!
- Leaks*. Check (listen, look) for leaks in toilets and dripping faucets. Repair leaks promptly.

### Annually

- Establish a contract for tank cleaning services with a state licensed maintenance business.
- Caps*. Make sure that all caps and lids are intact and in place. Inspect for damaged caps at least every fall. Fix or replace damaged caps before winter to help prevent freezing issues.
- Water conditioning devices*. See Page 5 for a list of devices. When possible, discharge clear water sources to another location. Program the recharge frequency based on *water demand (gallons)* rather than *time (days)*. Recharging too frequently will result in increased pumping costs.
- Review your water usage rate*. Review the Water Use Appliance chart on Page 5. Discuss any major changes with your pumper/maintainer.

### During each visit by a pumper/maintainer

- Ask if your pumper/maintainer is licensed in Minnesota.
- Make sure that your pumper/maintainer has clear access to the holding tank and completely empties the tank
- Ask your pumper/maintainer to accomplish the tasks listed on the Professional Tasks on Page 4.



## Professional Management Tasks

*These are the operation and maintenance activities that a pumper/maintainer performs to help ensure long-term performance of your system. Professionals should refer to the O/M Manual for detailed checklists for tanks, pumps, alarms and other components. Call 800-322-8642 for more details.*

- Written record provided to homeowner after each visit.

### Plumbing/Source of Wastewater

- Review the Water Use Appliance Chart on Page 5 with homeowner. Discuss any changes in water use and the impact those changes may have on the frequency of maintenance.
- Review and document water usage rates with homeowner.

### Holding Tanks

- Maintenance hole lid.* A riser is recommended if the lid is not accessible from the ground surface. Insulate the riser cover for frost protection.
- Liquid level.* Check to make sure the tank is not leaking.
- Inspection pipes.* Replace damaged caps.
- Alarm.* Verify that the alarm works and that there is at least 25% reserve capacity.
- End of year seasonal property pumping.* Remind homeowner of most frequent causes of tank and building sewer freeze-ups. Ensure that there are no “micro-sources” of water such as a high efficiency furnace or other dripping devices. Determine a logical winter water use plan that will not result in need for emergency visit(s).

All other components – inspect as listed here:

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**Water-Use Appliances and Equipment in the Home**

Appliance	Impacts on Holding Tank	Management Tips
Garbage disposal	<ul style="list-style-type: none"> <li>• Uses water and increases pumping frequency and expense.</li> </ul>	<ul style="list-style-type: none"> <li>• Use of a garbage disposal is not recommended.</li> <li>• Minimize garbage disposal use. Compost instead.</li> </ul>
Washing machine	<ul style="list-style-type: none"> <li>• Uses water and increases pumping frequency and expense.</li> </ul>	<ul style="list-style-type: none"> <li>• Choose a front-loader or water-saving top-loader, these units use less water than older models.</li> <li>• Wash only full loads.</li> <li>• Do laundry off site.</li> </ul>
Dishwasher	<ul style="list-style-type: none"> <li>• Uses water and increases pumping frequency and expense.</li> </ul>	<ul style="list-style-type: none"> <li>• Wash only full loads.</li> </ul>
Large bathtub (whirlpool)	<ul style="list-style-type: none"> <li>• Uses water and increases pumping frequency and expense.</li> </ul>	<ul style="list-style-type: none"> <li>• Take short showers to conserve water.</li> </ul>
Clear Water Uses	Impacts on Holding Tank	Management Tips
High-efficiency furnace	<ul style="list-style-type: none"> <li>• Drip may result in frozen pipes during cold weather.</li> </ul>	<ul style="list-style-type: none"> <li>• Re-route water into a sump pump or directly out of the house. Do not route furnace recharge to your holding tank.</li> </ul>
Water softener Iron filter Reverse osmosis	<ul style="list-style-type: none"> <li>• Uses water and increases pumping frequency and expense.</li> </ul>	<ul style="list-style-type: none"> <li>• These sources produce water that is not sewage and should not go into your holding tank.</li> <li>• Reroute water from these sources to another outlet, such as a dry well, drain tile or old drainfield.</li> </ul>
Surface drainage Footing drains	<ul style="list-style-type: none"> <li>• Uses water and increases pumping frequency and expense.</li> </ul>	<ul style="list-style-type: none"> <li>• When replacing, consider using a demand-based recharge vs. a time-based recharge.</li> <li>• Check valves to ensure proper operation; have unit serviced per manufacturer directions</li> </ul>

**Maintenance Log**

Track maintenance activities here for easy reference. See list of management tasks on pages 3 and 4.

Activity	Date accomplished/measured water usage									
<i>Check daily for a period of time and weekly once average use is determined:</i>										
Water usage rate (gallons per day)										
Leaks: check for plumbing leaks										
<i>Annually:</i>										
Establish and maintain contract for holding tank pumping services										
Water use appliances – review use										





Water Meter Reading and Tank Evacuation Schedule			
Date	Water Meter Reading (in gallons)	Tank Contents Removed?	Total Gallons Removed

Notes:

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Mitigation/corrective action plan: If capacity is exceeded, install more tankage.

If infiltration is present, find leaks and seal them.

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*"As the owner of this SSTS, I understand it is my responsibility to properly operate and maintain the sewage treatment system on this property, utilizing the Management Plan. If requirements in this Management Plan are not met, I will promptly notify the permitting authority and take necessary corrective actions."*

Property Owner Signature:

Date

Management Plan Prepared By: **Brian Koski**

Certification # **7989**

Permitting Authority: **Aitkin County**

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SCALE - 1" = 20'

(2) 10,000 GAL  
HOLDING TANKS

Existing Treatment Plant to be  
Decommissioned and Removed.

Existing Lift Station  
To Be Upgraded

GRAVEL ACCESS 12' WIDE

SHED

BUILDING

NOTES:

1. INSTALL TANKS WITH 24" COVER OVER LID OR INSULATE WITH 2" FOAM BOARD INSULATION.
2. BED TANKS WITH 6" PEA GRAVEL. BACKFILL AND COMPACT IN LIFTS WITH 3" MINUS GRANULAR BACKFILL.
3. INSTALL 24" CAST IRON INSERT FRAMES AND LIDS ON ALL MANHOLE ACCESS POINTS.
4. INSTALL 24" ULTRARIB RISER AND EPOXY TO GRADE RING INSERTS CAST INTO TANK LID, OR INSTALL CONCRETE RISER FROM TANK MANUFACTURE.
5. TANKS TO BE VACUUM TESTED AT INSTALL.
6. INSIDE OF TANK TO BE COATED WITH TAR COAL SEALANT.
7. PROVIDE ELECTRONIC ALARM AND FLOAT IN HOLDING TANK ON FLOAT TREE IN LAST MANHOLE RISER. ENGAGE ALARM AT 50% FULL.

PREPARED FOR <b>BIG SANDY DAM</b>	PROPERTY LOCATION 22205 531ST IN MCOREOR MN 55760	LEGAL DESCRIPTION AITKIN County, Minnesota, pdf# 18-0-063000	SEPTIC CHECK 6074 KEYSTONE RD MILACA, MN 56353 (320)-983-2447 (FAX) (320)-983-2151	I hereby certify that this plan was prepared by me or under my direct supervision. <i>Brian Koski M. P. C. A. License # 2624</i> 7-27-2018	PAGE TITLE Holding tank Design	SHEET NUMBER 1 OF 1
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# W10000 TANK SPECIFICATIONS

**DIMENSIONS:**

- WALL: 6" RIBBED
- COVER: 9"
- BOTTOM: 9"
- MANHOLE: 24" I.D. PRECAST RISER
- HEIGHT: 112-5/8" O.D.
- LENGTH: 240" O.D.
- WIDTH: 144" O.D.
- BELOW INLET: 92" O.D.
- LIQUID LEVEL: 80"
- WEIGHT: 29,000 LBS PER SECTION

**INLET AND OUTLET:**  
4" CAST-A-SEAL BOOT OR EQUAL

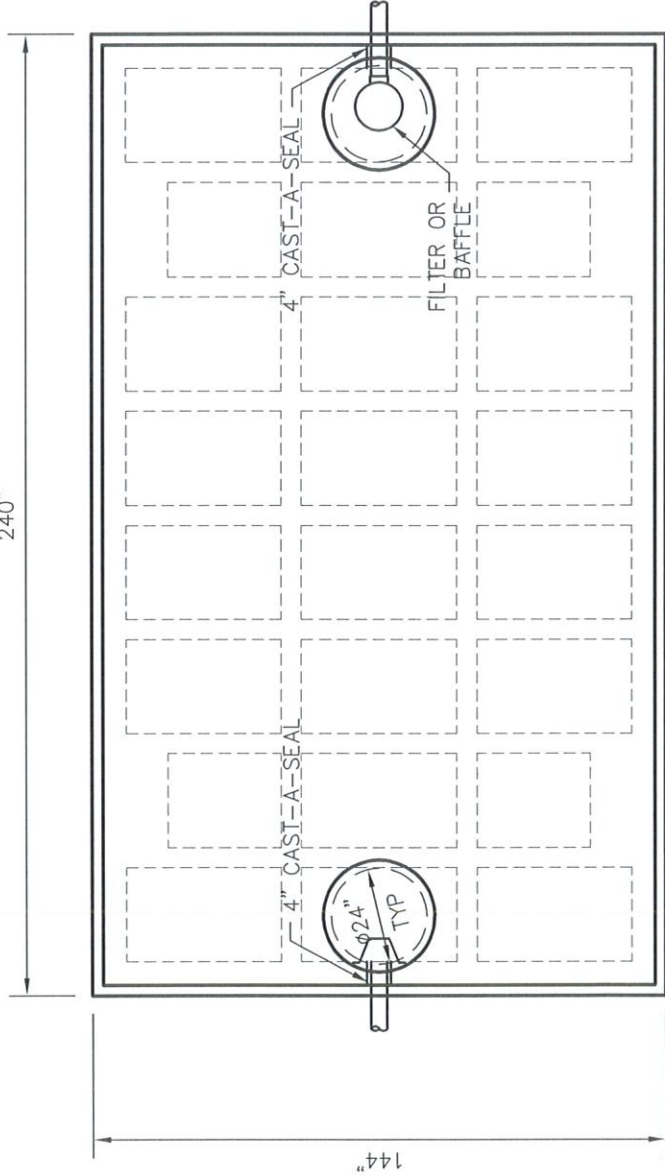
**INLET AND OUTLET BAFFLE AND FILTER:**  
WISCONSIN, SEE DETAIL #10  
(OTHER STATES SEE CHART)

**LIQUID CAPACITY:** 127.43 GAL/IN

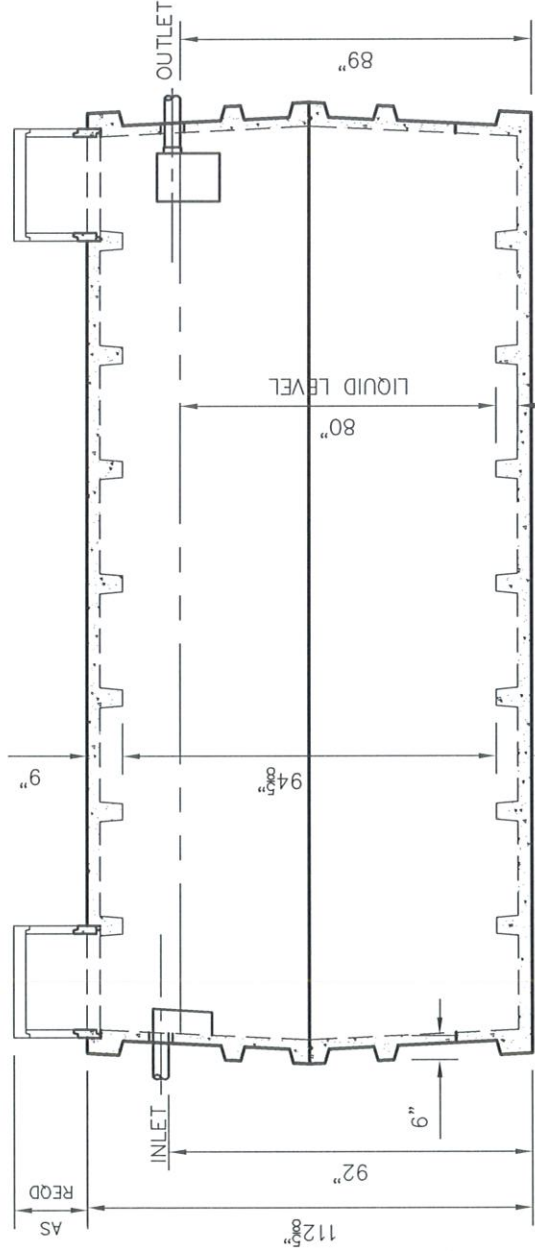
**HOLDING TANK:**

OUTLET HOLE PLUGGED  
ACTUAL CAPACITY: 10,577 GALLONS  
LOADING DESIGN: 8'-0" UNSATURATED SOIL

TOP VIEW



SIDE VIEW



TANKS ARE MANUFACTURED TO MEET OR EXCEED ASTM C-1227 REQUIREMENTS

**DRAWINGS SUBMITTED  
FOR APPROVAL**

APPROVED BY: \_\_\_\_\_  
 APPROVAL DATE: \_\_\_\_\_  
 PRODUCTS NEEDED BY: \_\_\_\_\_

SHEET NO. 1 OF 1

W10000  
SEPTIC MANUAL

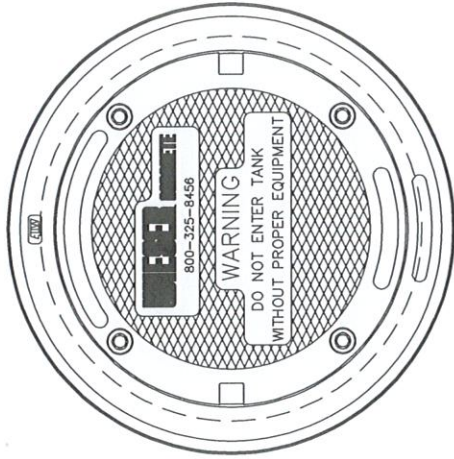
**WIESER CONCRETE**  
 W3716 US HWY 10 MAIDEN ROCK, WI 54750  
 800-325-8456

FILE: W10000  
 DRAWN BY: WCP  
 DATE: 00/00/00  
 REV. \_\_\_\_\_  
 SCALE: 1/4"=1'-0"

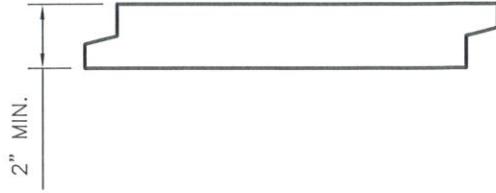
PRE-POUR: \_\_\_\_\_  
 POST-POUR: \_\_\_\_\_



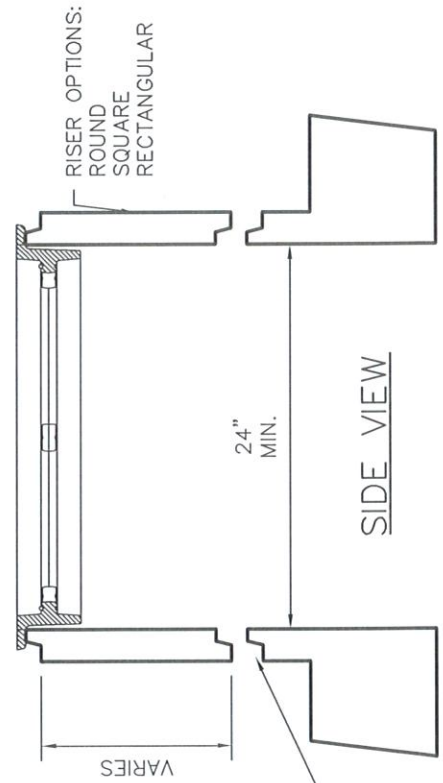
# MANHOLE RISER, BOLT DOWN COVER AND JOINT DETAIL



TOP VIEW



2" MIN.



RISER OPTIONS:  
ROUND  
SQUARE  
RECTANGULAR

24"  
MIN.

VARIES

SIDE VIEW

CONCRETE SEALANTS TYP.  
OR EQUAL FOR ALL JOINTS  
(SEE DETAIL 14)

**WIESER CONCRETE**  
W3716 US HWY10, MAIDEN ROCK, WI 54750  
800-325-8456

MANHOLE RISER,  
BOLT DOWN COVER  
AND JOINT DETAIL

SHEET NO.  
0 OF 0

SCALE: 1" = 1'	DRAWN BY: SWT	DATE: JANUARY 2008	FILE: SHEET 5
DATE:	REV NO.		



# TANK ALERT® XT

## Versatile Indoor/Outdoor Alarm System

The **Tank Alert® XT** indoor/outdoor alarm system monitors liquid level conditions in lift pump chambers, sump pump basins, holding tanks, sewage, agricultural, and other non-potable water applications.

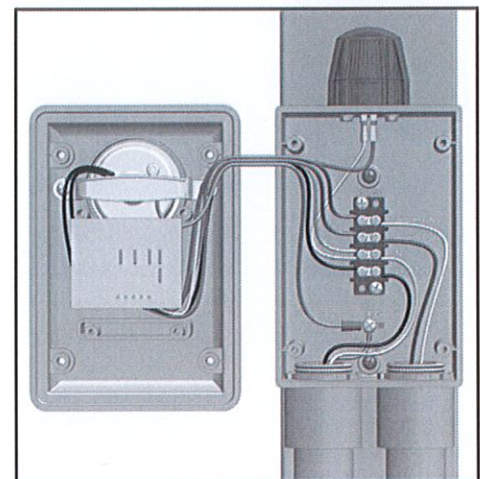
The alarm horn sounds and red beacon illuminates when a potentially threatening liquid level condition occurs. Once the condition is cleared, the alarm automatically resets.

### FEATURES

- Automatic alarm reset
- Power on indicator
- Alarm test switch
- Horn silence switch
- Indoor/outdoor enclosure meets Type 3R water-tight standard
- Includes 15' SJE SignalMaster® control switch
- Alternative float models for high and low level alarm
- Optional auxiliary contacts for remote devices
- Optional pre-mounted terminal block so enclosure can be used as a junction box
- Optional 6 ft. power cord and liquid-tight connectors

### PART NO. DESCRIPTION

- **1009923** TA XT, High, 15' SJE SignalMaster®
- **1005141** TA XT, No float





# TANK ALERT® XT Alarm System

## Versatile, indoor or outdoor liquid level alarm system.

This alarm system monitors liquid levels in lift pump chambers, sump pump basins, holding tanks, sewage, agricultural, and other water applications.

The **Tank Alert® XT** indoor/outdoor alarm can serve as a high or low level alarm depending on the float switch model used.

The alarm horn sounds and the red beacon illuminates when a potentially threatening liquid level condition occurs. The horn can be silenced, but the alarm light remains on until the condition is remedied. Once the condition is cleared, the alarm will automatically reset.

A "power on" light on the switch indicates power to the alarm panel.



## FEATURES

- Enclosure meets Type 3R water-tight standard.
- Automatic alarm reset, horn silence switch, and alarm test switch.
- Alarm horn sounds at 85 decibels at 10 feet (3 meters).
- Alarm system (when installed on separate circuit) operates even if pump circuit fails.
- Complete package includes standard SJE SignalMaster® control switch with 15 feet (4.57 meters) of cable (other lengths available) and mounting clamp.
- UL Listed for indoor or outdoor use.
- CSA Certified.
- Five-year limited warranty.



## OPTIONS

### When ordered with the alarm, the system is available with:

- alternate float switch models for high or low liquid level warning.
- auxiliary dry normally open contacts for easy attachment of remote devices.
- premounted terminal block so enclosure can also be used as a junction box for splicing pump, pump switch, and pump power. Meets NEC standard for junction boxes.
- 6 foot (1.8 meter) power cord and liquid-tight connectors.

## SPECIFICATIONS

**VOLTAGE:** 120 VAC, 50/60 Hz

**ALARM ENCLOSURE:** 6.5 x 4.5 x 3.0 inch (16.51 x 11.43 x 7.62 cm), indoor-outdoor, weatherproof, thermoplastic meets Type 3R water-tight standard

**ALARM HORN:** 85 decibels at 10 feet (3 meters), meets Type 3R water-tight standard as installed by factory

**ALARM BEACON:** UL Listed, Type 4x beacon assembly

**TEST/SILENCE SWITCH:** certified to IP66 and IP68 standards

**AUXILIARY ALARM CONTACTS (OPTIONAL):** 120 VAC, 5 amps max., 50/60 Hz

**PRE-MOUNTED TERMINAL BLOCK (OPTIONAL):** 20 amps, 120/230 VAC

**POWER CORD (OPTIONAL):** 6 foot (1.8 meter) cord with 120 VAC plug

**FLOAT SWITCH: SJE SignalMaster®** control switch with mounting clamp  
**Cable:** 15 feet (4.57 meters), flexible 18 gauge, 2 conductor (UL) SJOW, water-resistant (CPE)  
**Float:** 2.74 inch diameter x 4.83 inch long (7 cm x 12.3 cm), high impact, corrosion resistant polypropylene housing for use in sewage and non-potable water up to 140°F (60°C)

California Prop 65 requires the following:  WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

**SEE REVERSE SIDE FOR ORDERING INFORMATION.**  
**SEE PRICE BOOK FOR LIST PRICE.**



**SJE RHOMBUS.**

1-888-DIAL-SJE • 1-218-847-1317

1-218-847-4617 Fax

email: customer.service@sjeinc.com

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

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# TANK ALERT® XT Alarm System

Versatile indoor or outdoor liquid level alarm system.

## ORDERING INFORMATION

STANDARD ALARM (120 VAC)		Shipping Weight
Part#	Description	
1009923	TAXT-01H (120 VAC w/15' SJE SignalMaster® High Level )	3.00 lbs.
1010251	TAXT- 01L (120 VAC w/15' SJE SignalMaster® Low Level )	3.00 lbs.
1004442	TAXT-01H (120 VAC w/15' SJE Sensor Float® High Level)	3.00 lbs.
1005140	TAXT-01L (120 VAC w/15' SJE Sensor Float® Low Level)	3.00 lbs.
1005141	TAXT-01X (120 VAC no float)	1.50 lbs.

STANDARD ALARM (120 VAC) with Terminal Block		Shipping Weight
Part#	Description	
1012416	TAXT-01HAUXTB (120 VAC w/15' SJE SignalMaster® High Level Auxiliary Contacts TB)	3.50 lbs.
1022241	TAXT-01HTB (120 VAC w/15' SJE SignalMaster® High Level TB)	2.00 lbs.
1005481	TAXT-01HTB (120 VAC w/15' Sensor Float® High Level TB)	3.50 lbs.
1005835	TAXT-01LTB (120 VAC w/15' Sensor Float® Low Level TB)	3.50 lbs.
1005836	TAXT-01XTB (120 VAC no float TB)	2.00 lbs.
1009214	TAXT-01HAUXTB (120 VAC w/15' Sensor Float® High Level Auxiliary Contacts TB)	3.50 lbs.

STANDARD ALARM (120 VAC) with Options		Shipping Weight
Part#	Description	
1006850	TAXT-01HAUX (120 VAC w/15' Sensor Float® High Level & Aux Con)	3.50 lbs.
1006690	TAXT-01HPC (120 VAC w/15' Sensor Float® High Level Power Cord)	3.50 lbs.

H = High Level L = Low Level X = No Float TB = Includes Terminal Block PC = Power Cord  
 AUX = Auxiliary Contacts **MASTER CARTON holds 12 boxed units.**  
**SEE PRICE BOOK FOR LIST PRICE.**

## SPECIFICATIONS

- VOLTAGE:** 120 VAC, 50/60 Hz
- ALARM ENCLOSURE:** 6.5 x 4.5 x 3 inches (16.51 x 11.43 x 7.62 cm), indoor -outdoor, weatherproof, thermoplastic, meets Type 3R water-tight standard
- ALARM HORN:** 85 decibels at 10 feet (3 meters), meets Type 3R water-tight standard as installed by factory
- ALARM BEACON:** UL Listed, Type 4X beacon assembly
- TEST/SILENCE SWITCH:** certified to IP66 and IP68 standards
- AUXILIARY ALARM CONTACTS (OPTIONAL):** 120 VAC, 5 amps max., 50/60 HZ
- PRE-MOUNTED TERMINAL BLOCK (OPTIONAL):** 20 amps, 120/230 VAC
- POWER CORD:** (optional) 6 foot (1.8 meters) cord with 120 VAC plug
- FLOAT SWITCH:** SJE SignalMaster® control switch with mounting clamp
- CABLE:** 15 feet (4.57 meters), flexible 18 gauge, 2 conductor (UL) SJOW, water-resistant (CPE)
- FLOAT:** 2.74 inch diameter x 4.83 inch long (7 cm x 12.3 cm), high impact, corrosion resistant polypropylene housing for use in sewage and non-potable water up to 140°F (60°C)
- MAXIMUM WATER DEPTH:** 30 feet (9 meters), 13 psi
- ELECTRICAL:** 5 amps, 125 VAC/250 VAC, 50/60 Hz

## OTHER INFORMATION

Option	Description
AUX	Auxiliary Alarm Contacts (factory installed)
PC	6 foot power cord with two RCC8 1/2 inch liquid-tight connectors

## OPTIONS

### CONTROL SWITCH OPTIONS

The Tank Alert® XT alarm system comes standard with a 15 foot SJE SignalMaster® control switch with mounting clamp. Other float switches are available. See control switch section of the catalog.

To determine the price of alarm with an alternate float, add the price of the part number with "no float" to the price of the float switch.



**Call or fax your order!**

**1-888-DIAL-SJE (1-888-342-5753) • Fax 218-847-4617**

Product offering and pricing are subject to change without notice.  
 Please visit [www.sjrhombus.com](http://www.sjrhombus.com) for the most current information.



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