Colby,

Here's the list we talked about on the phone

Paul

Arkansas Department of Health

4815 West Markham Street • Little Rock, Arkansas 72205-3867 • Telephone (501) 661-2000
Governor Mike Beebe
Paul K. Halverson, DrPH, FACHE, Director and State Health Officer

Crawford County Health Unit
2040 Chestnut
Van Buren, Arkansas 72956
Phone: 479-474-6391
Fax: 479-474-0021

Sebastian County Health Unit
3112 S. 70th
Fort Smith, AR 72903
Phone: 479-452-8600
Fax: 479-474-0021

Designated Representatives

Name	Phone	Alt. Phone	Name	Phone	Alt. Phone
Bill Garner	(479) 675-4931	(479) 206-0104	Al Prieur	(479) 651-7920	(479) 651-1684
Glen Laurent	(479) 601-3844		Justin Sparrow	(479) 806-5453	
Benny Mays	(479) 531-0557		Jeff Tyler	(479) 629-4131	(479) 632-3357
Rusty McDonald	(479) 965-4240		Cecil Zolliecoffer	(479) 497-1131	
Ronnie Miller	(479) 471-0968	(479) 883-3987	Lupe Neeriemer	(479) 824-5955	(479) 841-3979

There are two (2) methods of conducting tests to determine the suitability for installing an individual sewage disposal system (Septic Tank and lateral lines). One method is the Percolation test and the other is a Soil test.

Septic System Installers

The following individuals are licensed through the Arkansas Department of Health to install and repair septic systems. Their work will be inspected by the Local Environmental Health Specialist prior to covering. Work done by unlicensed individuals cannot be approved. It is advisable to get several estimates.

Name	Phone	Alt. Phone
Affordable Septic	479-471-5741	479-650-9238
Kevin Carty	479-997-2181	479-997-8027
Dwight Cluck	479-883-1436	479-474-2854
Arthur Cooper	479-638-7037	
Paul Craft	479-997-8474	
Roy Day	479-970-8339	479-667-5111
Mark DeWater	479-461-4819	479-369-1704
Harold Gilmore	479-632-3998	
Larry Gordon	479-474-6468	
Steve Gregory	479-369-4769	
William Gryner	479-632-2115	
David Hamm	479-970-2768	
Richard Hammond	479-369-2577	
Alan Holt	479-883-0880	
Josh Hyatt	479-548-2899	
Mastermade	479-963-3752	
Rick McClellan	479-667-0263	

Name	Phone	Alt. Phone
Randy McDaniel	479-474-7677	
Mike Milosav	479-474-2245	
Brian Mitchell	479-928-4412	
Frank Parker Jr.	479-632-2694	
Bobby Reinschmiedt	479-632-3502	
Gary Ruloph	479-438-1444	
Joseph Sampley	479-667-0250	
Nicky Sehorn	479-637-2051	
Jesse Seratt	479-629-0162	
Ruben Strozier	479-996-6372	
Curtis Tennant	479-996-4209	
Elvin Tennant	479-996-4209	
Kevin Tipton Const.	479-739-5016	
Chuck Wallace	479-452-8413	
Joe Ward	479-883-9298	
Denver Wimberly	479-670-2650	

****.There is a statewide list available at www.healthy.arkansas.gov****

Arkansas Department of Health

Crawford County Health Unit – 2040 Chestnut – Van Buren, AR 72956 Phone (479) 474-6391
Governor Mike Beebe
Paul K. Halverson, DrPH, FACHE, Director and State Health Officer

March 13, 2012

Mr. Paul Johnson
J & L Deer Processing
5229 Parks Rd
Van Buren, AR 72956

RE: No Restroom facility at this location.

Dear Mr. Johnson,

The Arkansas Department of Health in Crawford County has reviewed your facility and the surrounding grounds. There is no restroom facility located in the building. At this time, your building does not meet the criteria to require an onsite wastewater system. However, should any construction of a restroom facility take place, an Onsite Wastewater System shall be installed in accordance with the Arkansas Department of Health Rules and Regulations pertaining to Onsite Wastewater Systems.

If you have any questions, please feel free to call me at (479) 474-6391.

Sincerely,

Matthew Hicks, R.S.
Environmental Health Specialist
Crawford, Sebastian, and Scott County EHS

cc: FILE

Doc Num2006004972
$11.00
04/28/2006 10:18:15 AM
Filed & Recorded in the Official Records of
LINDA HOWARD, CIRCUIT CLERK
By _____ D.C.

WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS:

That I, **LAWRENCE G. CRAWFORD,** a single person, survivor of a joint tenancy estate with Mildred Lorraine Osborne, deceased, **GRANTOR,** for and in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration paid in hand by **PAUL D. JOHNSON** and **ROBBIE L. JOHNSON,** husband and wife, as tenants by the entirety, **GRANTEES,** do hereby grant, bargain, sell, and convey unto the said Grantees, and unto their heirs and assigns forever, all of my right, title, interest, equity and estate in and to the following land in Crawford County, Arkansas:

EIGHT ACRES OF LAND IN THE SOUTHWEST CORNER OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 34, TOWNSHIP 9 NORTH, RANGE 31 WEST. (THE SAID EIGHT ACRES BEING A PART OF TEN ACRES WHICH WAS DEEDED TO J.C. MINOR AND SARAH ELIZABETH MINOR BY LYNCH CREEKMORE AND SUE GEAN CREEKMORE AS EVIDENCED BY A DEED DATED THE 20TH DAY OF FEBRUARY, 1926, AND WHICH IS RECORDED IN THE RECORDS OF CRAWFORD COUNTY, ARKANSAS, RECORD BOOK 199, PAGE 15).
Commonly known as 5229 Parks Road, Van Buren, Arkansas, 72956.
[Legal Description supplied by Grantor]

GRANTOR RESERVES IN HIMSELF ALL MINERALS AND MINERAL RIGHTS IN AND UNDER THE PROPERTY.

To have and to hold the same unto the said Paul D. Johnson and Robbie L. Johnson, husband and wife, Grantees, and unto their heirs and assigns forever, with all tenements, appurtenances and hereditaments thereunto belonging.

And I, the said Lawrence G. Crawford, for myself, my heirs, executors, administrators and assigns hereby covenant with the said Grantees, their heirs and assigns, that I am lawfully seized in fee of the aforegranted premises; that it is free from all encumbrances; that I have good right to sell and convey the same to the said Grantees as aforesaid and that I, and my heirs, executors and administrators, shall forever warrant and defend the title to said real estate against all lawful claims and demands whatsoever.

And I, Lawrence G. Crawford, for the consideration herein paid, release and relinquish my rights of dower, curtesy, and homestead in the above property.

SIGNED this 5th day of April, 2006.

Lawrence G. Crawford
LAWRENCE G. CRAWFORD, Grantor

ARKANSAS DOCUMENTARY $110 459269
ARKANSAS DOCUMENTARY $38.50 017262

11 - Paul Johnson

2

ACKNOWLEDGMENT

STATE OF ARKANSAS
COUNTY OF CRAWFORD

On this the 5th day of April, 2006, before me, the undersigned Notary Public, personally appeared Lawrence G. Crawford, known to me to be the person whose name appears on the within instrument and acknowledged he executed the same for the purposes therein contained.

In witness whereof I hereunto set my hand and official seal.

My Commission Expires: 4/1/09

Trent (Morland) Powell
NOTARY PUBLIC

I certify under penalty of false swearing that the legally correct amount of documentary stamps have been placed on this instrument.

Paul D. Johnson
Paul D. Johnson, Grantee

Send Tax Statement To: 5229 Parks Road
Van Buren, AR 72956

This Instrument was prepared by BAGBY LAW FIRM, P.A., Attorneys at Law, 501 Main Street, P.O. Box 766, Van Buren, Arkansas 72957.

CERTIFICATE OF RECORD
STATE OF ARKANSAS, COUNTY OF CRAWFORD
I hereby certify that this instrument was
Filed and Recorded in the Official Records
in Doc Num 2006004972
04/20/2006 10:10:15 AM
Linda Howard
Crawford County Circuit Clerk & Recorder
By: Selina Martin D.C.

SEAL OF CIRCUIT CLERK CRAWFORD COUNTY, ARKANSAS

Paul Johnson Deer Processing Facility
5229 Parks Road
Van Buren, Ar. 72956
Legal: Part of SW ¼,SE ¼, SW ¼, Section 34, T-9-N, R-32-W
8 Acres

Prepared By: Ronnie Miller
D.R. # 7601058788
Phone # 479-883-3987

Perk Test and Non-Domestic Septic System Design:
Date: 03/10/2012

Notes:
The deer processing building is separate from an existing manufactured home located on the same property. Both structures share one water meter. The water use was calculated by taking the gallons of use over a 3 month period. November, December of 2011 and January 2012. (This is the primary time of deer processing during deer season). I split the gallons of water use by a 50/50 split. (50% use by mfg. house and 50% use by the deer processing facility). The calculations are as follows:

Calculation of water use: NOV. 9,100 gal
DEC. 11,300 gal
JAN. 8,500 gal.
28,900 gal

28,900 ÷ 92 days = 314 gal/day
314 gal/day ÷ 2 = 157 gal/day

I used 270 gal/day as the volume of water used. (Actually larger than the volume of use calculated).

I determined the loading rate of the soil as .69 (percolation rate of: 20 min./in.)
270 / .69 = 391 sq. ft. of lateral line trench or 196 linear feet of trench.
I have designed the system with 3-70' trenches for a total of: 210 linear feet.

Complete installation notes, diagram of system, pump specifications and material specifications are on the following pages.

Ronnie Miller

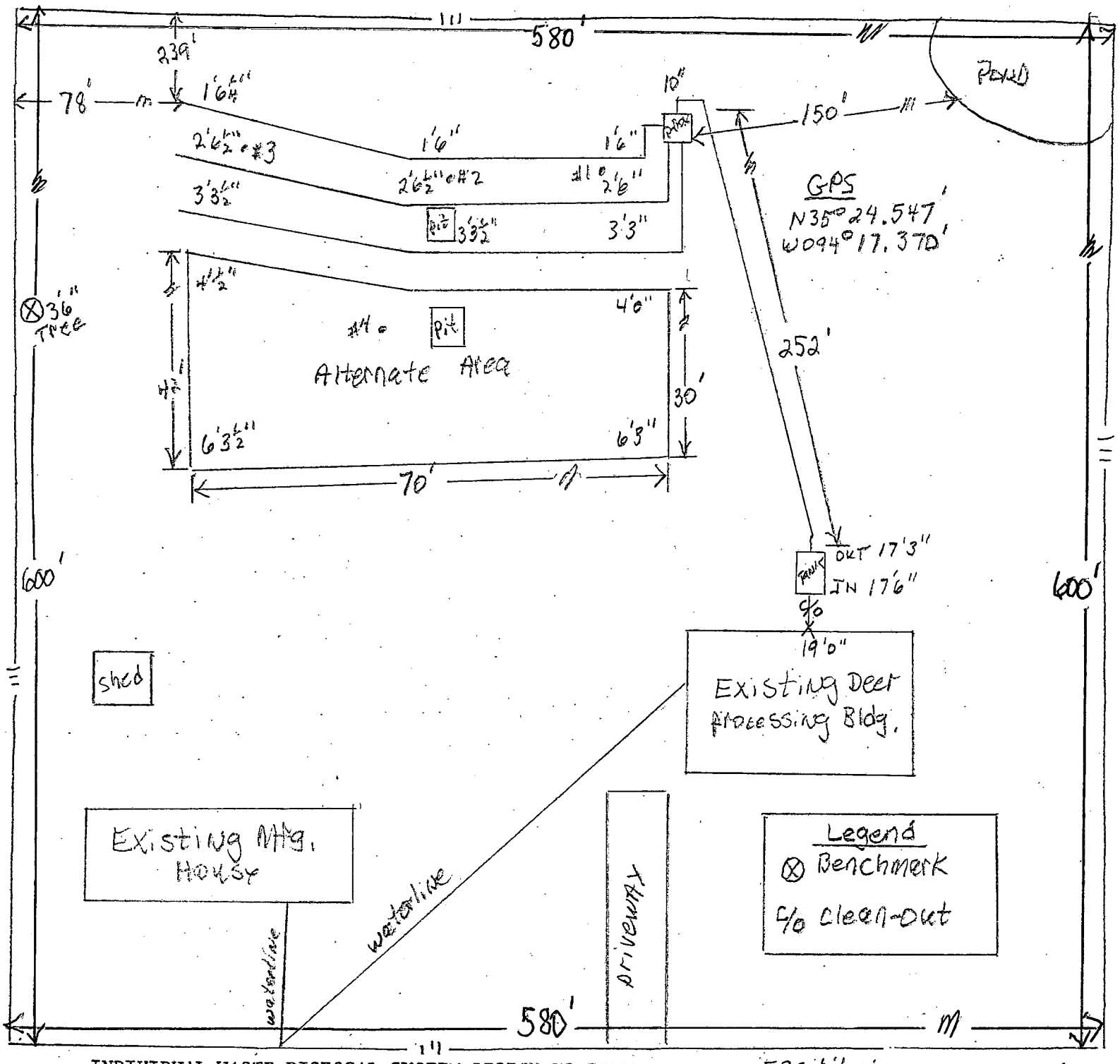
PAUL JOHNSON INSTALLATION NOTES

A 1250 gallon 2 compartment tank is required. The tank will be installed 10 feet from the stub-out of the building. The drain line from the sink of the building will be plumbed to the inlet of tank. A clean out is required between the building and inlet of tank.

A pump will be installed in the 250 gallon pump chamber of tank and pump effluent up-slope 250 feet to a distribution box that will distribute the effluent between 3 – 70 ft. lateral lines. If pipe and grave is utilized, the first 5 feet of each lateral line will require non-perforated SDR 35. Infiltrator EQ 24 is another trench media option. (Installation instructions are included). Lateral lines will be a minimum of 10 ft. centered.

Pump Calculation sheet is included.

Lateral Lines:
18 in. depth on minimum of 10 ft. centers.
Install SCH 40 PVC from stub-out to tank.
Install clean-out between building and tank.
SCH 40 PVC from tank to distribution box (2.0 in. diameter).
SDR 35 for tight lines to each lateral line.
SDR 35 for first 5 ft. of each lateral line.
SDR 38 for lateral lines.
Install high water alarm at tank. (installation specification sheets included)
Install effluent filter on the outlet side of tank. (spec. sheet included)



INDIVIDUAL WASTE DISPOSAL SYSTEM DESIGN TO SERVE PROPOSED Facility:

NAME Paul Johnsen LOCATION 5229 Parks Rd, VAN Buren, AR 72956

2 Compartment

SEPTIC TANK CAPACITY 1250 GAL. ABSORPTION SYSTEM: NO. LINES 3

LENGTH OF EACH LINE 70 FT. SQ. FT. 420 SIZE OF LOT 8 Acres

SYSTEM TO BE INSTALLED ACCORDING TO ARK. STATE HEALTH DEPT. SPECIFICATIONS.

DATE 3-10-12

USE 18" DEEP ABSORPTION TRENCHES.

Ronnie Miller P.E.
1614 Westwind Way
Van Buren, AR 72956

SCALE: 1" = 20'

Project Name Paul Johnson OR Ronnie Miller

Bench mark location Nail in tree west of Alternate Area

Ground Elevation

Line #	Beginning	Middle	End
1	1'6"	1'6"	1'6¼"
2	2'6"	2'6½"	2'6½"
3	3'3"	3'3½"	3'3½"
4			
5			
6			
7			
8			

Flow Line Elevation

Beginning	Middle	End
2'6"	2'6"	2'6¼"
3'6"	3'6½"	3'6½"
4'3"	4'3½"	4'3½"

If the ground elevation reading between line 1 and the last line is 6 inches or greater, enter ground elevation reading from line 1 into box "B" otherwise enter ground elevation reading into box "A".

	Ground Elevation	Minimum Flowline Elevation
Stub out	19'0"	19'0"
Tank inlet	17'6"	18'8½"
Tank Outlet	17'3"	"A" →
D-Box	10"	"B" → 1'6"

length of line(s) 70'

DISTANCES

Building to inlet of tank	10'
Tank outlet to D-Box or other	252'
D-box(other) to Line 1	3'

NOTE

If the ground elevation across the dispersal field is 5 inches or less, the flowline of the tank outlet shall be at or above the ground elevation of line 1

If the ground elevation across the dispersal field is 6 inches or greater, the flowline of the D-box shall be at or above the ground elevation of line 1

Distance between lines

	Beginning	Middle	End
1&2	10	10	11
2&3	10	10	11
3&4	10	10	10
4&5			
5&6			
6&7			
7&8			

Comments

Septic System Installation Instructions
Quick4® Equalizer® 24 Low Profile Chambers

INFILTRATOR systems Inc.

Before You Begin

Quick4 Equalizer 24 LP Chambers are designed for shallow placement applications and may only be installed according to State and/or local regulations. If unsure of the installation requirements for a particular site, contact the local health department.

Like conventional systems, the soil and site conditions must be approved prior to installation. Conduct a thorough site evaluation to determine the proper sizing and siting of the system before installation.

Materials and Equipment Needed

- ☐ Quick4 Equalizer 24 LP Chambers
- ☐ End Caps
- ☐ PVC Pipe and Couplings
- ☐ Backhoe
- ☐ Laser, Transit, or Level
- ☐ Shovel and Rake
- ☐ Tape Measure
- ☐ Utility Knife
- ☐ Hole Saw
- ☐ 1¼-inch Drywall Screws*
- ☐ Screw Gun*
- ☐ Small Valve-Cover Box*
- ☐ 4-inch Cap for Inspection Port*

* Optional

These guidelines for construction machinery must be followed during installation:

- ☐ Avoid direct contact with chambers when using construction equipment.
- ☐ Only drive across the trenches when necessary. Never drive down the length of the trenches.
- ☐ To avoid additional soil compaction, never drive heavy vehicles over the completed system.

Excavating and Preparing the Site

Note: As is the case with conventional systems, do not install the systems in wet conditions or in overly moist soils, as this causes machinery to smear the soil.

1. Stake out the location of all trenches and lines. Set the elevations of the tank, pipe, and trench bottom.

2. Install sedimentation and erosion control measures. Temporary drainage swales/berms may be installed to protect the site during rainfall events.

3. Excavate and level 18" wide trenches with proper center-to-center separation. Verify that the trenches are level or have the prescribed slope.

Note: Over excavate the trench width in areas where you are planning to contour.

4. Rake the bottom and sides if smearing has occurred while excavating. Remove any large stones and other debris. Do not use the bucket teeth to rake the trench bottom.

Note: Raking to eliminate smearing is not necessary in sandy soils. In fine textured soils (silts and clays), avoid walking in the trench to prevent compaction and loss of soil structure.

5. Verify that each trench is level using a level, transit, or laser.

Preparing the End Cap

1. With a hole saw drill a opening appropriate to the pipe diameter being used (normally 3 to 4 inches) on the front of the end cap.

2. Snap off the molded splash plate located on the bottom front of the end cap.

3. Install splash plate into the appropriate slots below the inlet to prevent trench bottom erosion.

Installing the System

1. Check the header pipe to be sure it is level or has the prescribed slope.

2. Set the invert height as specified in the design from the bottom of the inlet.

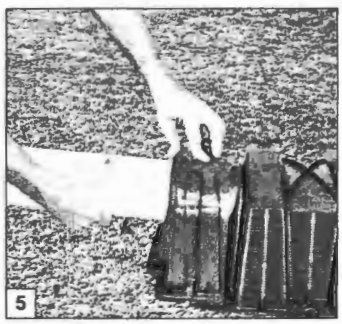
3. Place the first chamber in the trench.

4. Place the back edge of the end cap over the inlet end of the first chamber. Be sure to line up the locking pins on the top of both the chamber and end cap.

Optional: Fasten the end cap to the chamber with a screw at the top of the end cap.

Place end cap onto first chamber.

5. Insert the header pipe 2.5 inches into the opening on the front of the end cap.

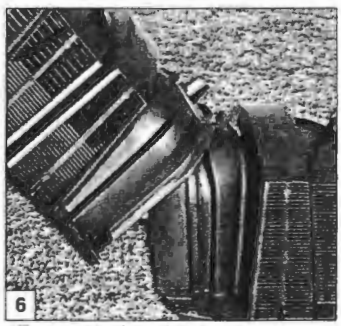


Insert header pipe.

6. Lift and place the end of the next chamber onto the previous chamber by holding it at a 45-degree angle. Line up the chamber end between the connector hook and locking pin at the top of the first chamber. Lower the chamber to the ground to connect the chambers.

Note: When the chamber end is placed between the connector hook and locking pin at a 45-degree angle, the pin will be visible from the back side of the chamber.

Note: The connector hook serves as a guide to ensure proper connection and does not add structural integrity to the chamber joint. Broken hooks will not affect the structure or void the warranty.



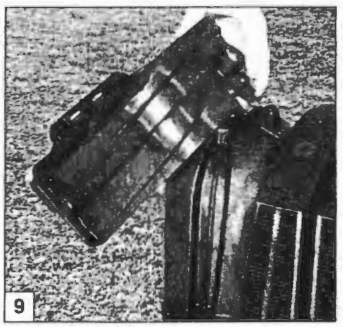
Connect chambers.

7. Swivel the chamber on the pin to achieve the proper direction for the trench layout. *Note: The chamber allows up to 15-degree swivel in either direction at each joint.*

8. Continue connecting the chambers until the trench is completed.

Note: As chambers are installed, verify they are level or have the prescribed slope.

9. The last chamber in the trench requires an end cap. Lift the end cap at a 45-degree angle and align the connector hook on the top of the chamber with the raised slot on the top of the end cap. Lower the end cap to the ground and into place.



Attach end cap to last chamber.

Note: Place a few shovels of soil around the end cap to secure it during backfill.

10. To ensure structural stability, fill the sidewall area by pulling soil from the sides of the trench with a shovel. Start at the joints where the chambers connect. Continue backfilling the entire sidewall area, making sure the fill covers the louvers.

11. Pack down fill by walking along the edges of trench and chambers.

Note: In wet or clay soils, do not walk in the sidewalls.

12. Proceed to next trench and begin with Step 1.

Installing Optional Inspection Ports

1. With a hole saw, drill the pre-marked area in the top of the chamber to create a 4-inch opening.

2. Set a cut piece of pipe of the appropriate length into the corresponding chamber's inspection port sleeve.

Note: The sleeve will accommodate up to a 4-inch SCH40 pipe.

3. Use two screws to fasten the pipe to the sleeve around the inspection port.

4. Attach a threaded cap or cleanout assembly onto the protruding pipe at the appropriate height.

5. A small valve cover box may be used if inspection port is below the desired grade.

Covering the System

Before backfilling, the system must be inspected by a health officer or other official as required by State and local codes. Create an as-built drawing at this time for future records.

1. Backfill the trench by pushing fill material over the chambers with a backhoe. Keep a minimum of 12 inches of compacted cover over the chambers before driving over the system.

Note: Do not drive over system while backfilling in sand.

Note: For shallow cover applications, it is recommended that tracked construction equipment be used. You must mound 12 inches of soil over the system before driving over it, and then grade it back a minimum of 4 inches upon completion.

2. It is best to mound several inches of soil over the finish grade to allow for settling. This also ensures that runoff water is diverted away from the system.

3. After the system is covered, the site should be seeded or sodded to prevent erosion.

Note: If the system is for new home construction, it is important to leave marking stakes along the boundary of the system. This will notify contractors of the site location so they will not cross it with equipment or vehicles.

Infiltrator Systems, Inc. Limited Warranty (a) The structural integrity of each chamber, end cap and other accessory manufactured by Infiltrator ("Units"), when installed and operated in a leachfield of an onsite septic system in accordance with Infiltrator's instructions, is warranted to the original purchaser ("Holder") against defective materials and workmanship for one year from the date that the septic permit is issued for the septic system containing the Units; provided, however, that if a septic permit is not required by applicable law, the warranty period will begin upon the date that installation of the septic system commences. To exercise its warranty rights, Holder must notify Infiltrator in writing at its Corporate Headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect. Infiltrator will supply replacement Units for Units determined by Infiltrator to be covered by this Limited Warranty. Infiltrator's liability specifically excludes the cost of removal and/or installation of the Units. (b) THE LIMITED WARRANTY AND REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. (c) This Limited Warranty shall be void if any part of the chamber system is manufactured by anyone other than Infiltrator. The Limited Warranty does not extend to incidental, consequential, special or indirect damages. Infiltrator shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any third party. Specifically excluded from Limited Warranty coverage are damage to the Units due to ordinary wear and tear, alteration, accident, misuse, abuse or neglect of the Units; the Units being subjected to vehicle traffic or other conditions which are not permitted by the installation instructions; failure to maintain the minimum ground covers set forth in the installation instructions; the placement of improper materials into the system containing the Units; failure of the Units or the septic system due to improper siting or improper sizing, excessive water usage, improper grease disposal, or improper operation; or any other event not caused by Infiltrator. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty. Further, in no event shall Infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or shipment, or from any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all site conditions required by State and local codes; all other applicable laws; and Infiltrator's installation instructions. (d) No representative of Infiltrator has the authority to change or extend this Limited Warranty. No warranty applies to any party other than the original Holder. The above represents the standard Limited Warranty offered by Infiltrator. A limited number of States and counties have different warranty requirements. Any purchaser of Units should contact Infiltrator's Corporate Headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.

INFILTRATOR®
systems inc.

1-800-221-4436 • www.infiltratorsystems.com

HYDROMATIC®

W/D/V-A1

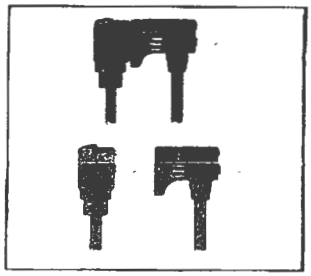
Submersible Sump Pump

- Basement Sumps
- Septic Tank Effluent
- Industrial Circulators
- Transfer Tanks

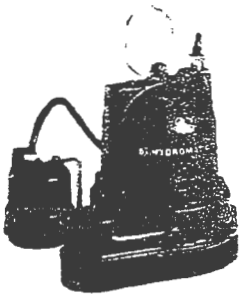
Automatic operation features wide-angle float switch (W-A1), or Hydromatic's exclusive pressure diaphragm switch (D-A1) or Hydromatic's vertical, mechanical float switch (V-A1). All switches feature a piggyback plug-in arrangement that allows for simple conversion to manual operation.

Cast iron body and an oil-filled motor provide superior cooling characteristics for longer pump life. Motor windings contain automatic thermal overload protection.

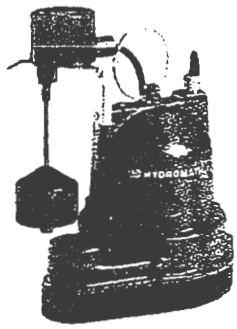
Energy efficient .3 HP motor pumps up to 38 GPM at 10' total dynamic head. Discharge is 1-1/2" N.P.T.



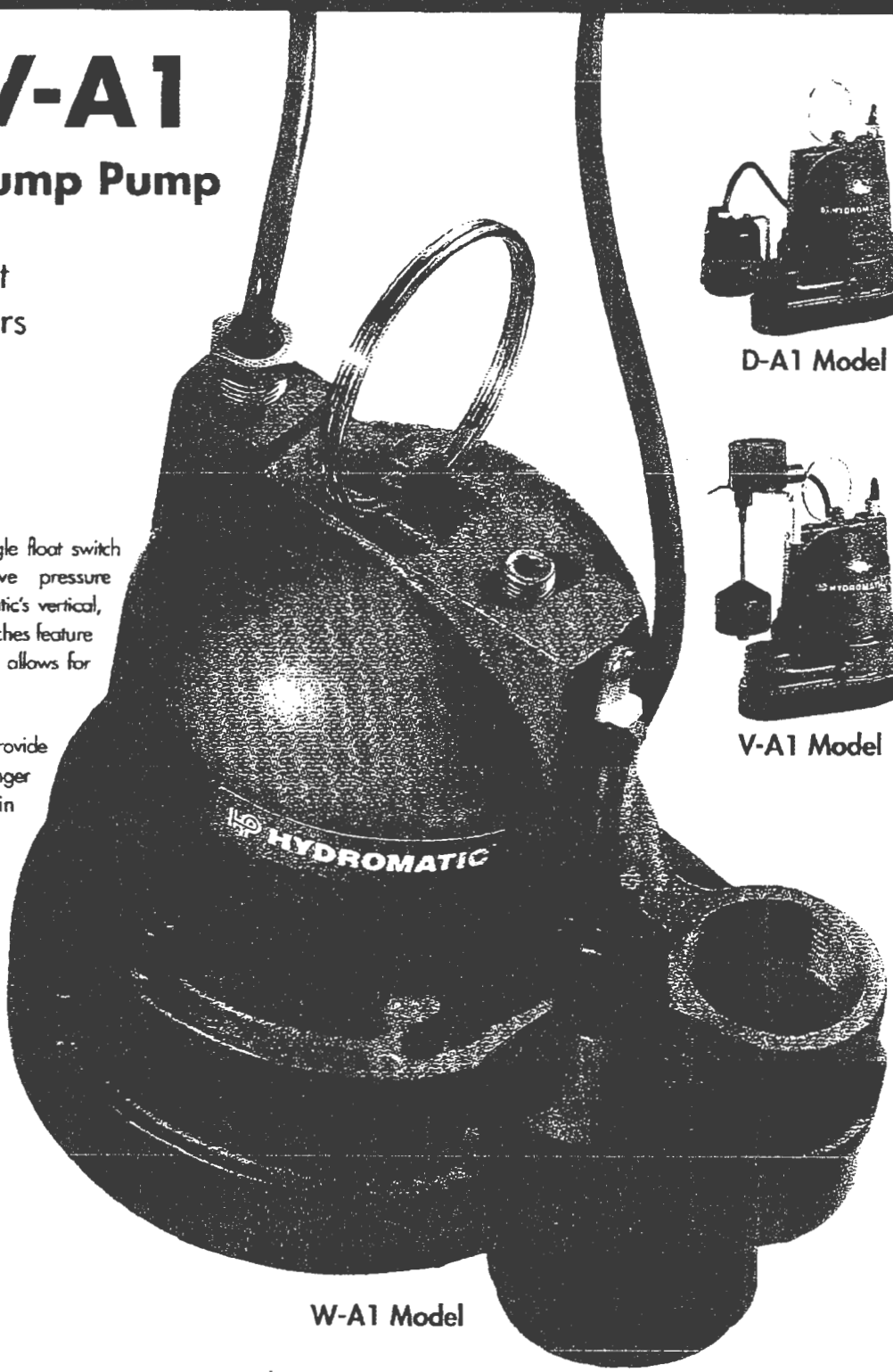
May be operated manually or automatically with a piggyback switch.



D-A1 Model



V-A1 Model



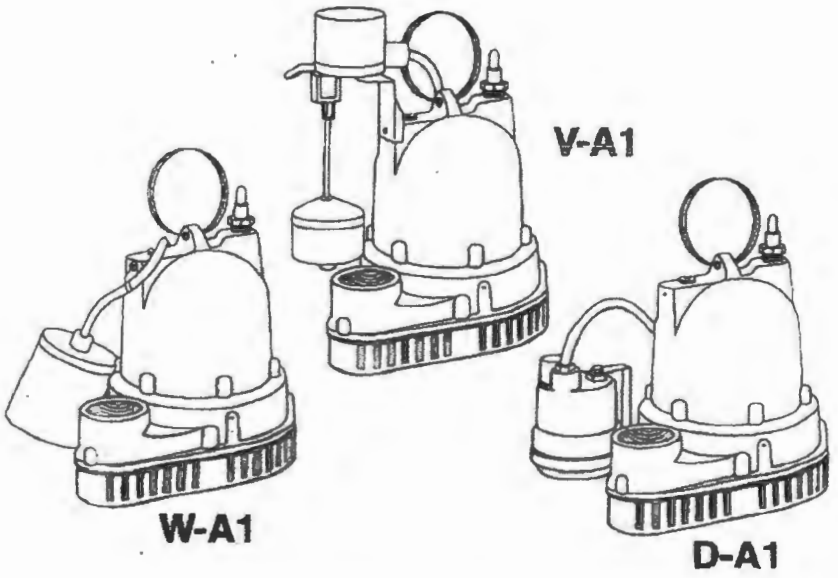
W-A1 Model

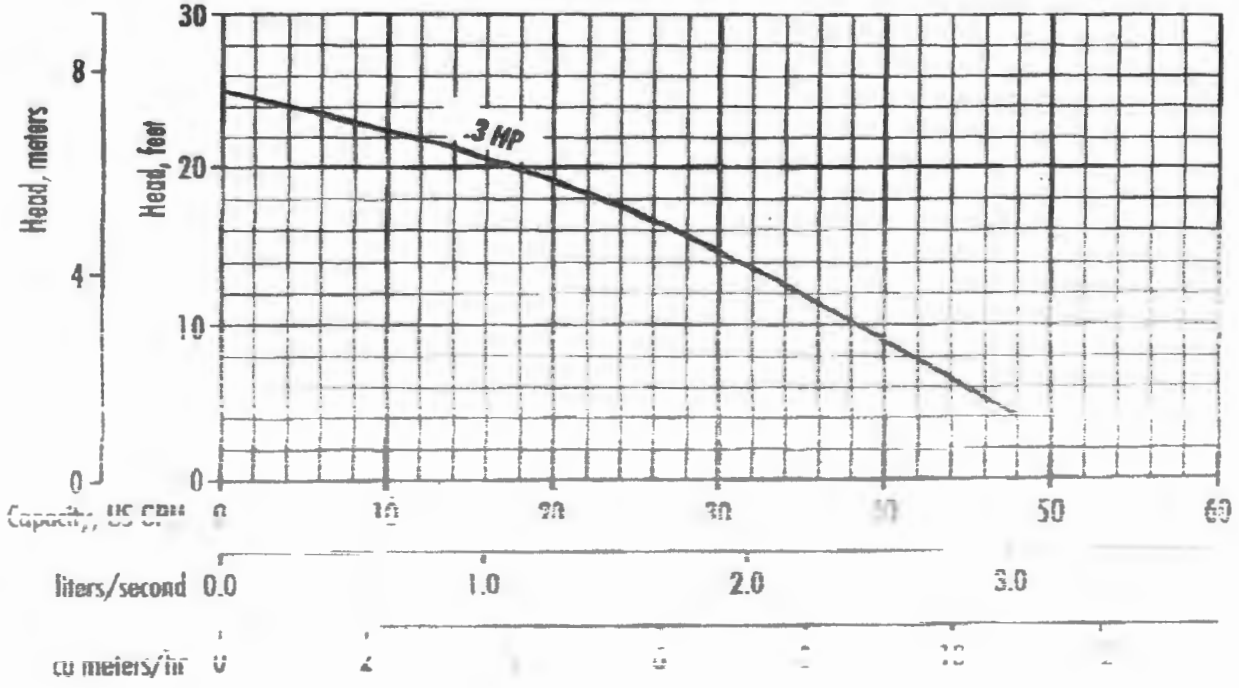
Pentair
Pump Group

Performance Data

W/D/V-A1

RPM: **1550** Discharge: **1-1/2"** Solids: **1/2"**





The curves reflect maximum performance characteristics without exceeding full load (Nameplate) horsepower. All pumps have [illegible] factory test. [illegible] Performance curves are based on actual tests with clear water at 70° F. and 1260 feet site elevation.

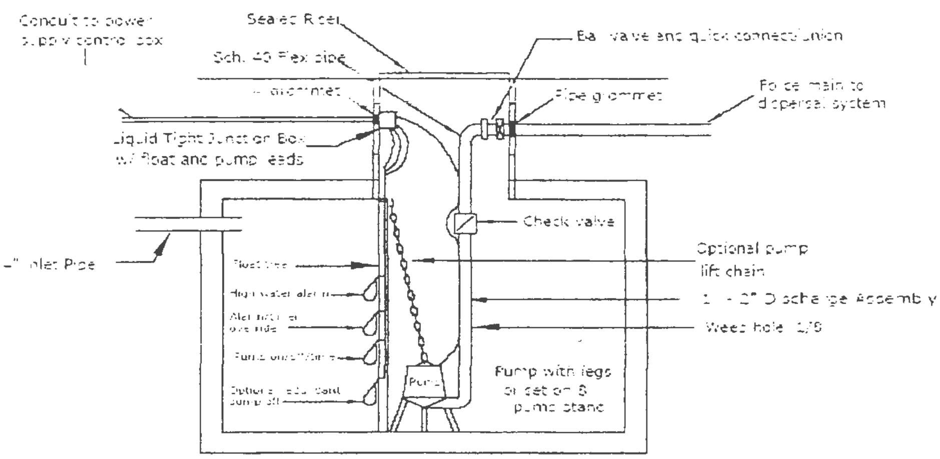
Conditions of Service:

GPM:_____ TDH:_____

HYDROMATIC

Standard Pump / Dose Calculation Worksheet

Pump Tank



To calculate Gallons per minute:

1. Gallons per day ÷ loading rate 420 sq ft. (Example: 370 gpd ÷ .75 = 493.33 or 494 sq. ft)

2. Square footage required for system x dose rate. Specify Dose Rate .15 gal/ sq. ft (Max dose rate is .25 gal/ sq.ft.)

(Example: 494 sq. ft x .15 gal/sq.ft = 74.1 gal dose) 63 gal per dose.

3. Take dose rate and ÷ by number of minutes for pump run time = 7 gpm calculated. Recommended minimum pump run time is 2 minutes. Calculated pump run time 9 minutes per dose. Check manufacturer for best optimal run duration.

(Example: 74.1 gal/dose ÷ 4 minutes = 18.53 or 19 gpm)

To calculate Total Head:

1. Ground elevation of distribution device .5' - (minus) Ground elevation pump/ dose tank 17.5' = [illegible]

+ "Pump off" elevation in dose chamber / tank to ground (typically 4.25 ft) [illegible] 15 = (Elevation / Static Head)

2. Distance to be pumped 253' Pipe Size: [illegible]. Calculate Friction Loss (Use Table on back of page)

[illegible] Friction loss.

3. Add additional headloss for distribution device if not using d-box: [illegible]. Attach calculation sheet for the device.

4. Total Head (TDH) [illegible]. (Elevation / Static Head) + Friction Loss + Distribution device (if needed) = Total Head)

Pump Selected (brand, model) [illegible] Attach pump curve and spec sheet.

Alarm Selected (brand, model) [illegible] Attach spec sheet.

Calculate Drawdown: **Maintain enough effluent to cover the pump.** [illegible]

Length" x Width" x 1" ÷ 231 = Gallons per inch (Example 72" x 16" x 1" = 1152^3 inches ÷ 231 = 4.98 or 5 gals/ inch)

Drawdown: [illegible] gallons per inch in tank. **Drawdown in inches per dose** [illegible].

Set pump float and alarm float. (Maintain a minimum of 1 inch difference between the pump "on/off" float and the alarm float.

NOTE: Gallons per inch may vary between tanks/pump chambers by different manufacturers.

JB ALARM – ALARM SYSTEM

The JB Alarm alarm system is designed to monitor liquid levels in sump basins, holding tanks, lift station tanks and many other non-potable water and wastewater applications.

This alarm comes standard with a Normally Open, 15 foot mini float switch to monitor for High Water levels (part# JB15H). An optional Normally Closed float switch can be supplied for monitoring Low Water levels (part# JB15L).

The JB15H is designed to sound an audible horn and illuminate a visible red beacon light to notify of an alarm situation. There is a silence switch to turn horn off while fixing the alarm situation which will automatically reset itself when the the situation is remedied. (the red alarm light will remain on until the alarm conditions are remedied) There is also a Test Button for convenient testing of the units alarm light and horn.

OPTIONS: Alternate float switches with variable cord lengths are available.

FEATURES:

- External mounting feet for quick installation to any dry, flat surface.
- Test and Silence Buttons, Alarm automatically resets
- Type 4X non-metallic enclosure rated for indoor or outdoor use.
- When installed on a separate circuit from the pump, the unit will operate even if the pump circuit fails.
- 6 foot, 120 VAC power cord.
- Alarm package comes with Alarm Unit, Float Switch, Tie Strap, and installation instructions in one complete box.
- 2 year limited warranty

SPECIFICATION:

Voltage: 120 VAC primary, 12 VAC secondary, 6 Watt max. (when alarming), 60 Hz.
Enclosure: Type 4X non-metallic, external mounting feet, 3.5" x 5.5" x 4".
Power Cord: 6 foot, 120 VAC w/cord grips
Float Switch: Normally open, narrow angle contacts. Hermetically sealed, stainless steel mercury switch. Mini bulb, 3.5" x 2.5". 18/2 SJOOW (CPE) water and oil resistant cable, 15 foot standard.

CONERY MFG. INC.

Conery Mfg. Inc. 1380 Enterprise Parkway Ashland, OH 44805

PH: 419-289-1444 FAX: 419-281-0366 www.conerymfg.com

TANK ALARM JB– ALARM SYSTEM INSTALLATION INSTRUCTIONS

- Be sure to follow National Electric Code, ANSI/NFPA 70, when installing this unit to prevent moisture from entering or building up inside equipment.

ALARM & FLOAT INSTALLATION:

1. Decide flat indoor or outdoor vertical mounting location.
2. Make sure power from the breaker to the site location is turned off.
3. Use the external mounting feet to securely mount the alarm unit to the surface.
4. Use the tie strap supplied in the box to secure the float switch (figure 1) at the desired warning level in the tank. Cut off excess material left from the tie strap and discard.
5. Bring float wire up to the alarm unit and strip the end of the float wire (figure 2) and connect the wires to the labeled terminal strip position.
8. Next, plug the 120 VAC power cord into outlet. Make sure the power supply is separate from the one used for the pump to ensure proper notification.
10. Attach the alarm box cover to the base using the four screws in the cover making sure the seal fits properly.
9. Turn the power on
10. Now manually test the alarm by tilting the float switch up until you hear the alarm notification and you see the alarm light turn on.
11. Periodically test unit by pushing the Test button on the cover to make sure unit is working properly.

Figure 1

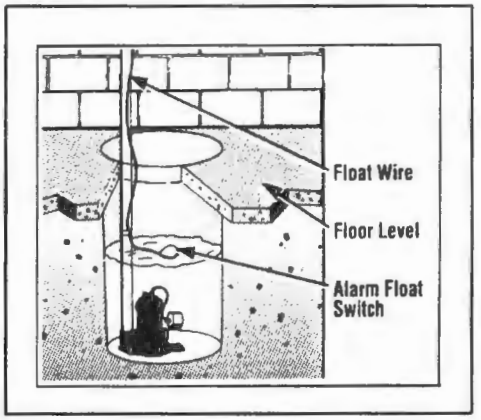
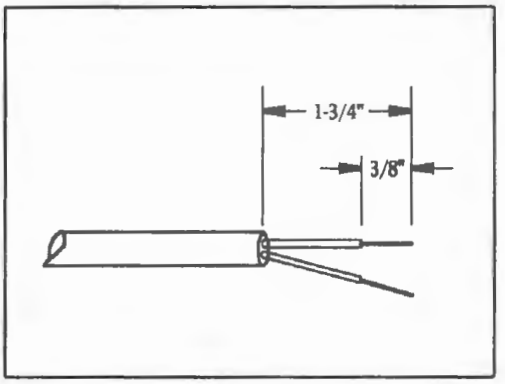


Figure 2



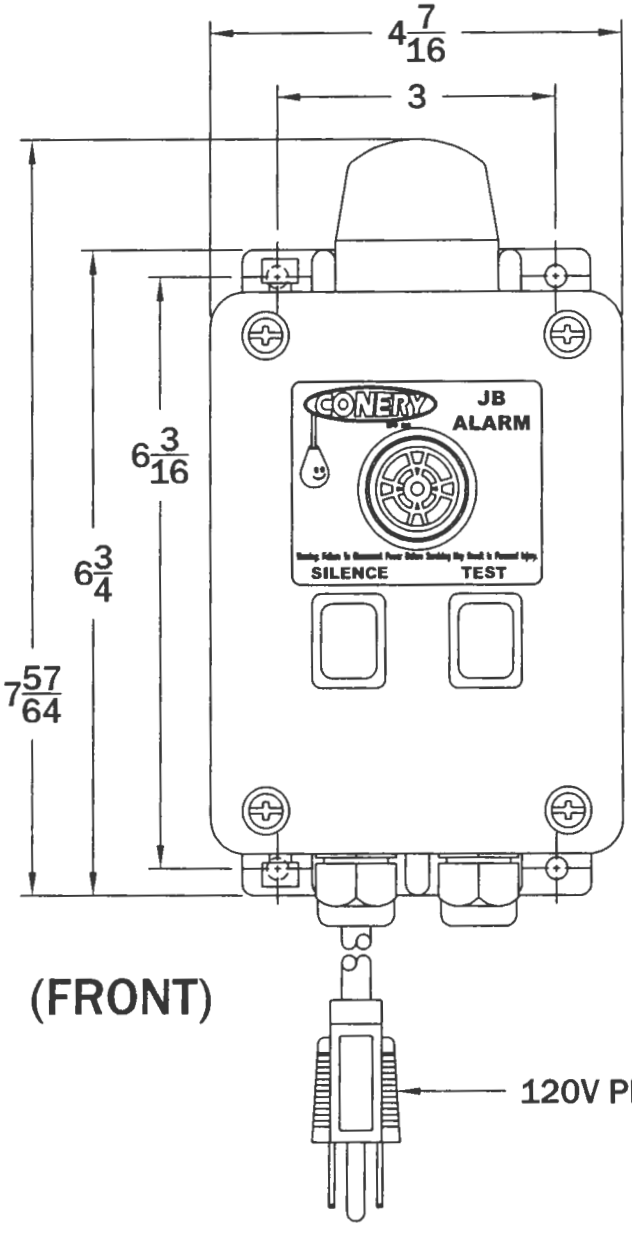
WARNING: FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH. REFER TO THESE INSTRUCTIONS ANY TIME UNIT IS DISCONNECTED FOR ANY REASON.

⚠WARNING	ELECTRICAL SHOCK HAZARD Disconnect power before installing or servicing this product. A qualified service person must install and service this product according to applicable electrical and plumbing codes.	⚠WARNING	EXPLOSION OR FIRE HAZARD Do not use this product with flammable liquids. Do not install in hazardous locations as defined by National Electrical Code, ANSI/NFPA 70.

CONERY MFG. INC. 1380 ENTERPRISE PKWY ASHLAND, OH 44805
PH: 419-289-1444 FAX: 419-281-0366 www.conerymfg.com

NOTE: ALARM FOR INDOOR OR OUTDOOR USE.
NON-METALLIC ENCLOSURE IS TYPE 4X.
ALARM PACKAGE CONTAINS: JB ALARM UNIT
FLOAT SWITCH W/15' CORD
TIE STRAP, AND INSTALLATION INSTRUCTIONS.

JB SERIES ALARM



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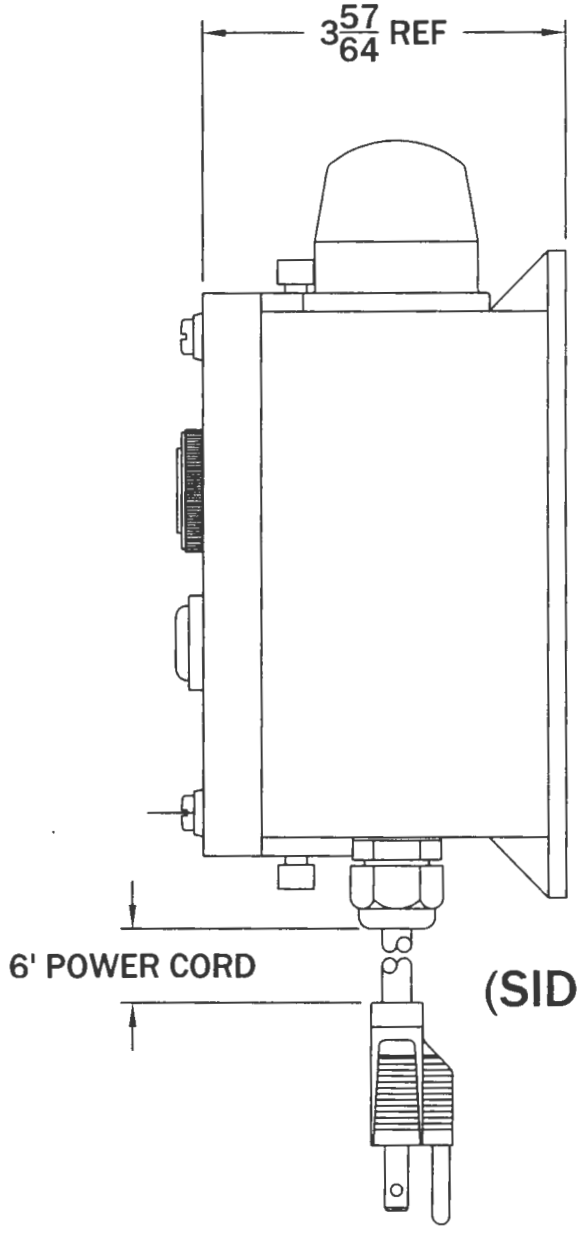


(SIDE)

CONERY MFG INC

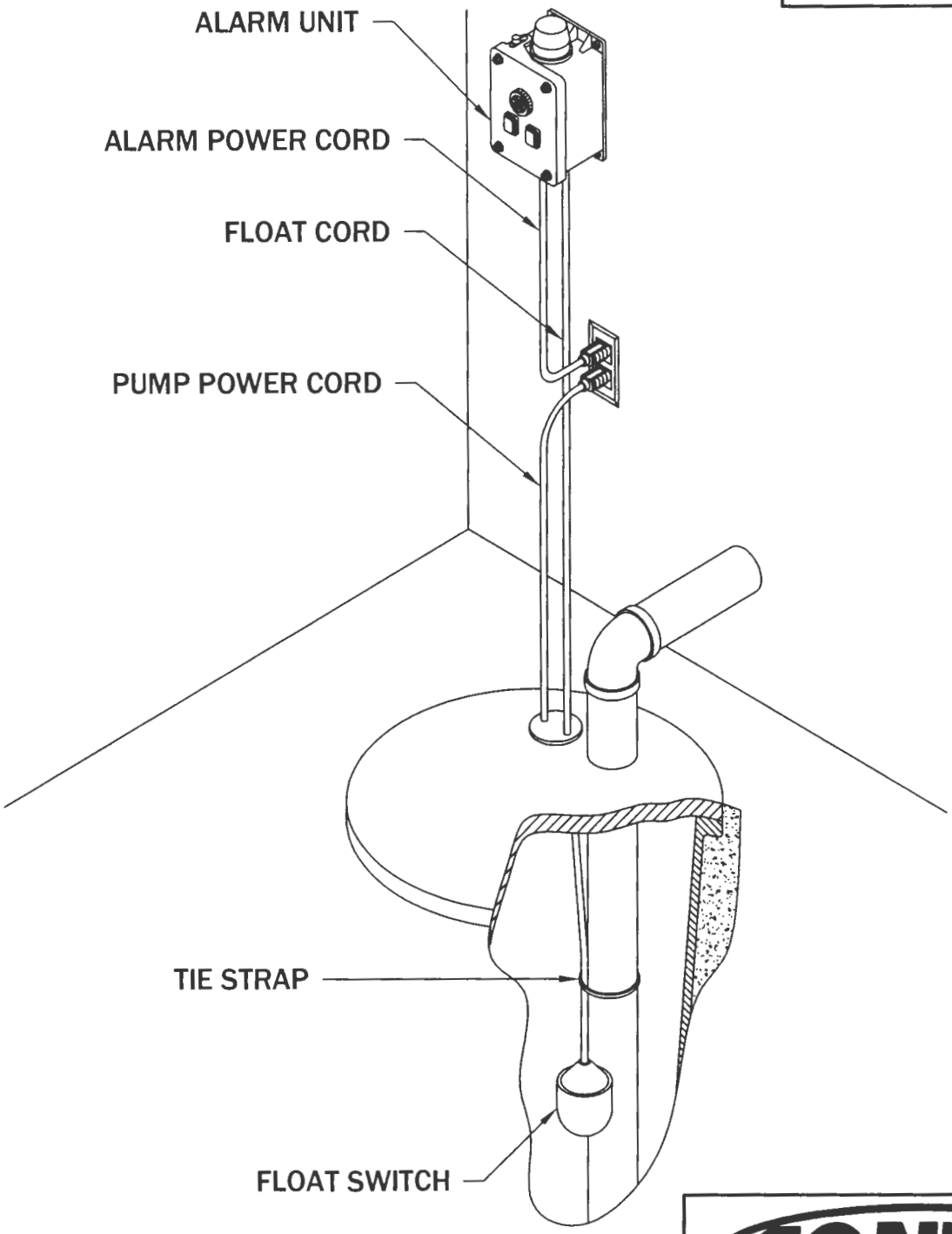
CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS	D. MIDDLETON	03/22/04
E	.XXX = ±.005		
D	.XX = ±.010	MATERIAL SPECIFICATION:	
C	FRACTIONAL	AS NOTED	
B	X/X = ±.1/64		
A	ANGLES		
	X° = ±1/2°		

SPECIFICATION SHEET
DIMENSIONAL DATA

SCALE:	PART NO.
HALF	JB SERIES ALARM

TYPICAL MOUNTING

JB SERIES ALARM



CONERY MFG INC

CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS .XXX = ±.005 .XX = ±.010 FRACTIONAL X/X = ±.1/64 ANGLES X° = ±1/2°	D. MIDDLETON	03/22/04
E		MATERIAL SPECIFICATION: AS NOTED	
D			
C			
B			
A			

SPECIFICATION SHEET
DIMENSIONAL DATA

SCALE:	PART NO.
NONE	JB SERIES ALARM

Hot Topics
- Rabies Awareness
- Free Money!
- Alt. Septic System Data
- Resource Library Additions

Department Programs
- Home
- Administrative Division
- Alternative Septic Systems
  - Owner's Guide
  - Information Center
    - Data and Statistics
    - I/A Compendium
    - Learn Title 5
- Alternative Septic Test Center
- Bathing Beach Water Quality
- Enviro. Health and Safety
- Landfill Monitoring
- Medical Reserve Corps
- Public Health Nurse
- Rabies Awareness
- Regional Emergency Planning
- Regional Tobacco Control
- Septic Loan Program
- Service to Boards of Health
- Underground Storage Tanks
- Water Quality Laboratory

News and Resources
- News
- Staff Directory
- Resource Library
- Event Calendar
- Employment Opportunities

Health Agents Coalition
- About
- Announcements
- References and Resources

Effluent and Vent Filters

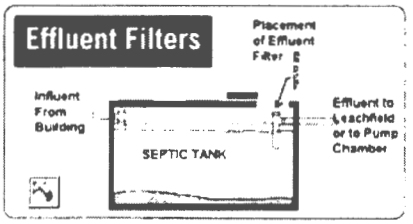


Figure 1 Placement of filter in tank

Effluent filters are devices that can be affixed to outlets of septic tank and grease trap as pictured at right (Figure 1). The filter is a primary screening barrier designed to reduce the volume of solids passing out of the tank and through to the soil absorption system (SAS). If you were to pour unfiltered effluent from a septic tank into a clear glass (yuk!) and hold it up to the light, you would see that there are many fine particles of organic matter (and some inorganic material like fine grit) floating around. These particles, some barely visible to the human eye (and some that aren't) are referred to as suspended solids. The measure of their abundance is referred to as Total Suspended Solids or TSS. Average TSS values from residences is 60-120 PPM. When these particles pass out of the septic tank into the leachfield, they settle in the small spaces between the soil, reducing the capacity of the soil to drain away the effluent. Given enough time, and aerobic (free exchange of oxygen) conditions, many of these organic particles break down into the basic components of water, carbon dioxide, and other simpler compounds. If too much of this organic matter is deposited on the soil interface however, the soil spaces clog and ponding of the effluent in the leachfield occurs. This results in anaerobic (no oxygen) conditions which further impedes the complete breakdown of wastes.

By retaining more of the suspended solids in the septic tank and reducing the amount of organic material that "demands" oxygen to breakdown (technically this is called reducing the Biochemical Oxygen Demand or BOD) that passes into the leachfield, the performance of the leachfield in breaking down waste can be improved. This results in a longer leachfield "life". The goal of a good effluent filter is to do exactly this – prevent the passage of suspended organic and inorganic materials into the leachfield, while not impeding the flow of effluent to the point where it backs up into the building. Effluent filters perform this function by providing either screens or directing the flow across areas where the suspended material becomes trapped or settles out.

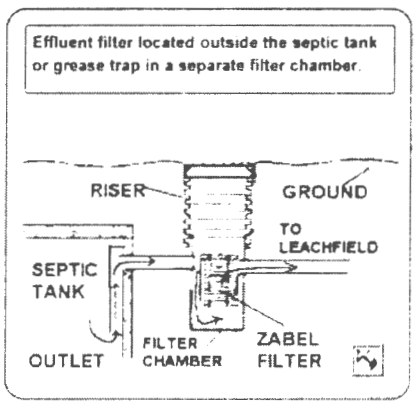


Figure 2. Effluent filter located outside the septic tank or grease trap in a separate filter chamber

The effluent filter is most commonly a simple device that fits into the discharge tee of a septic tank as pictured here. For a household, a 4-inch diameter filter is used. New tanks can easily accommodate the filter installation while previously installed tanks can often be retrofitted. In some cases, where an effluent filter is desired but a precast baffle is in place (as opposed to a PVC sanitary tee) it may be necessary to install a filter chamber along the outlet pipe between the tank and D-box. This is illustrated in Figure 2 . In addition to acting as a filter, the effluent screen acts as a substrate on which organisms can grow and digest the trapped waste. The mass of organisms and trapped waste eventually grows on the filter to the point where the weight causes it to slough off into the tank below and undergo subsequent anaerobic digestion.

There are a variety of filter sizes to accommodate facilities' daily design flows. Large systems may require multiple filters going through a manifold arrangement in order to meet the daily flow rate as shown in top view in Figure 3. By utilizing a manifold configuration with the appropriate filter size(s) any tank or grease trap's daily design flow can be accommodated.

Meetings and Events
No events at this time

Department Information
Monday - Friday
8:00am - 4:30pm
Main Line: (508) 375-6613
Main Fax: (508) 362-2603
Laboratory Line: (508) 375-6605
Laboratory Fax: (508) 362-7103
3195 Main Street
P.O. Box 427
Barnstable, MA 02630
Map and Directions

Site Search
Search

Low Profile External Basin with 1/32" Best Filter

Item# 3008-LPFB-32

$540.00

Add to cart

Product Description

Polylok's new low profile external filter basin is ideal for those situations where space limitations are a factor. The filter/ basin combination uses the Best Technology GF-10 filter with a 2,500 GPD capacity, making it suitable for a wide range of commercial applications. The GF-10 filter uses a proven conical plate design that allows unwanted material accumulations on the plates to fall back into the tank. The one -piece housing is made of impact resistant plastic and filter plates that are 1/8 inch, 1/16 inch, or 1/32 inch apart. The Best GF-10 filter's multiple filtration combinations make this external basin / filter unit suitable for all septic tanks, grease traps or dog kennel applications. Best filters accept our handle extension kit for easy filter removal at time of service, and our Smart Filter Alarm to alert the user when a filter requires service.

24"W x 26"H

24" Heavy Duty Cover included.

www.zabelzone.com
800-221-5742
use: 1/32 Filter plate

IN TANK OPTION

Effluent Filters
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UV Filtration
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Odor Control
Drainage Products
Distribution Products
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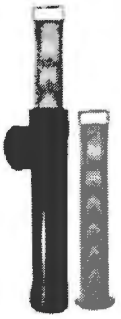
Filter & Pump Basins
Pumps
Pump Accessories
Waste Digesting Bacteria

Home > Effluent Filters > 4" Effluent Filters by Zabel > 4" x 18" Cartridge with PL-68 Tee Baffle

4" x 18" Cartridge with PL-68 Tee Baffle



Item# A1800-4x18-30142-68

$47.10

Options: None

Add to cart

Product Description

The Zabel® A1800™ Series is the choice for single-family residential applications with waste flows up to 800 gallons per day (GPD). The cartridge design allows for easy installation and maintenance and comes with our PL-68 tee/housing. All A1800 Series filters feature a locking tab that securely locks the filter to the tee/housing. With 1/16" filtration, this filter is available in 18" and 22" lengths. The 22" A1800 comes with a built in gas deflector.

Patented inside out flow:
Zabel's patented flow reduces the trapping of solids in the filter by allowing them to slough off and fall back into the tank for further digestion.

Slots rather than mesh screens provide less surface area for solids to attach and promote the sloughing action. Independent research has shown the Zabel® A1800™ Series Filters reduce TSS by 40% in residential applications.

Features:

- Easy to install.
- 1/16" filtration.
- Up to 800 GPD.
- Extra strength one peice design.
- Accepts SmartFilter switch for use with filter alarms.
- Accepts optional 3/4" PVC handle extention kit.
- Gasket prevents bypass.
- Bult in gas deflector (22" Only)

Installation:
Ideal for residential waste flows up to 800 gallons per day (GPD). Easily installs in any new or existing 4" outlet tee.

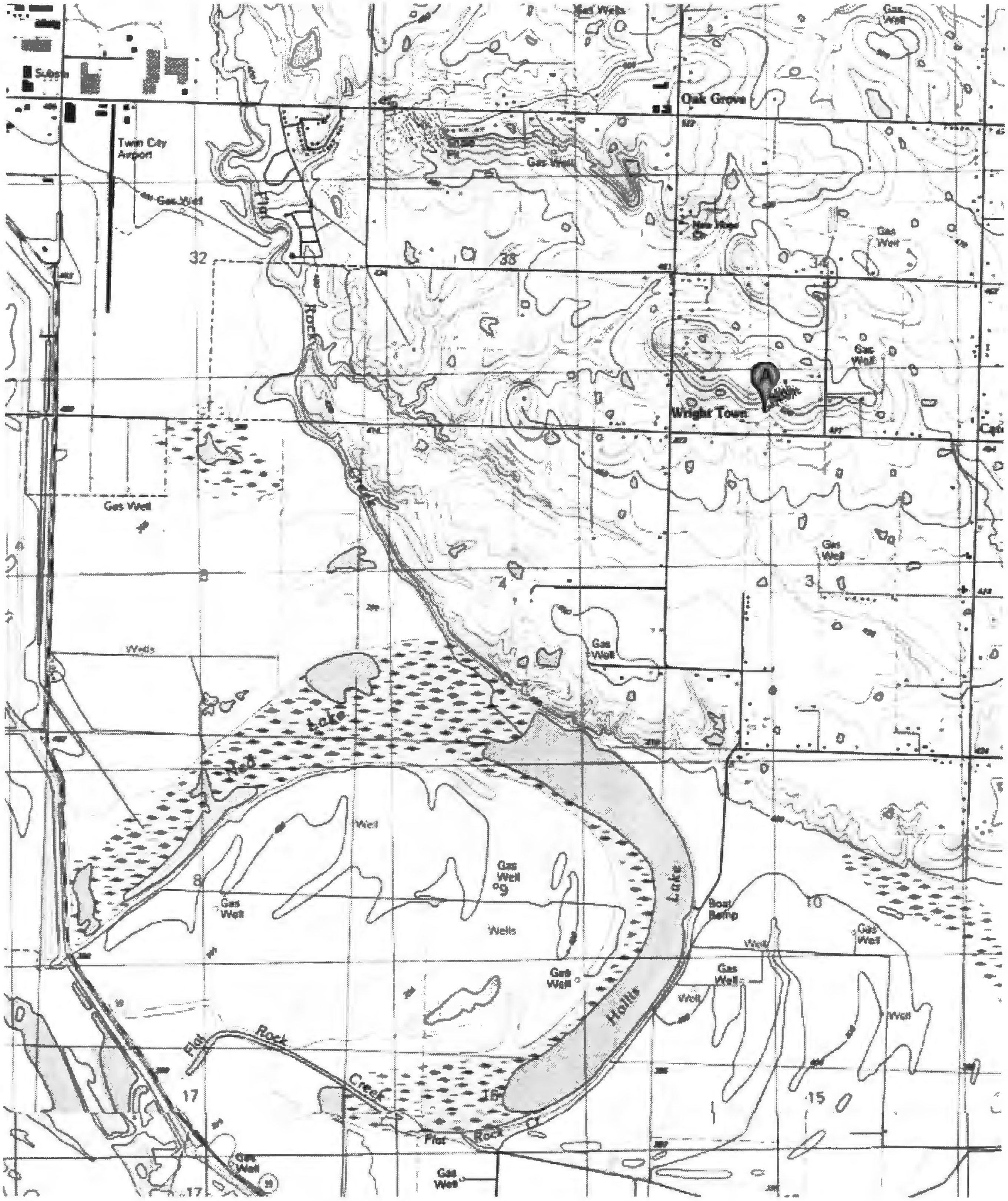
1. Locate the outlet of the septic tank.
2. Remove the tank cover and pump tank if necessary.
3. Glue the filter housing to the outlet pipe, or use a Polylok Extend & Lok if not enough pipe exists.
4. Insert the filter into tee/housing.
5. Replace and secure the septic tank cover.

Maintenance:
The Effluent Filter will operate efficiently for several years under normal conditions before requiring cleaning. It is recommended that the filter be cleaned every time the tank is pumped, or at least every three years.

1. Do not use plumbing when filter is removed.
2. Pull filter out of the tee/housing.
3. Hose off filter over the septic tank. Make sure all solids fall back into septic tank.
4. Insert filter back into tee/housing.

Technical Data:

Tee/Housing Drawing
Filter Drawing


Oak Grove
Twin City Airport
Gas Well
Wright Town
Flat Rock Creek
Lake
Hollis Lake
Boat Ramp
Wells
Well
32
33
34
3
4
8
10
15
16
17

ArcGIS -

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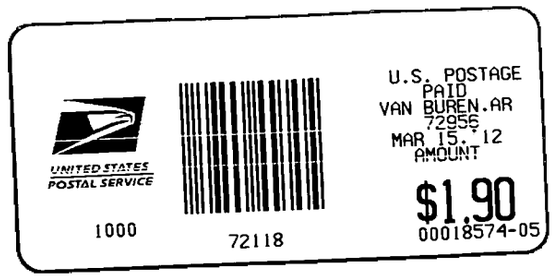
Paul Johnson
5331 Parks Rd.
Van Buren, AR. 72956



Colby Ungerank
% Arkansas Department of Environmental Quality
Water Division
Permits Branch, No-Discharge
5301 Northshore Drive
North Little Rock, AR 72118-5317