

The Presby Wastewater Treatment System

Advanced Enviro-Septic®

WYOMING APPLICATION PACKAGE

FOR PERMIT TO CONSTRUCT

(Five Bedrooms - 550 GPD or Less)



Made in USA



Presby Environmental, Inc.

The Next Generation of Wastewater Treatment Technology

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Introduction

The following package is designed to assist you in submitting a completed application for a properly designed small wastewater treatment and disposal system using Presby Environmental's Advanced Enviro-Septic® system. It is designed **only** for a system utilizing a state approved septic tank and gravity feed treatment field. The daily wastewater flow must be 2,000 gallons per day (GPD) or less. It has been prepared under the direction of Jonathan Brandt, P.E, a registered professional engineer. A signed and sealed copy is maintained on file at the Lander offices of DEQ.

Using the information in this design package and accurately completing the necessary forms for the chosen system should ensure that the design will comply with the minimum requirements of the Wyoming Water Quality Rules and Regulations, Chapter 25. Only those pages which are applicable to your system need to be submitted.

This package is for a standard in-ground gravity bed type disposal system, using Advanced Enviro-Septic® for daily design flows of five bedrooms or less (see separate high flow application for systems over five bedrooms). If the seasonal high groundwater, bedrock, or impervious clay layer is within three feet of the bottom of the proposed treatment field, then a mounded or partially mounded system may be required. Since these types of systems are more difficult to design and construct, **this package does NOT provide guidance in their design. Please contact your district engineer if you propose to use a non-conventional system.**

Wyoming Department of Environmental Quality Water Quality Division
Permit number **16-176**

Date of Issue: 6-6-18

<p>Wyoming Water Quality Application Form Permit to Construct Small Advanced Enviro-Septic® Wastewater Treatment System</p> <p>Septic system treating less than 2,000 gallons per day only. Not to be used for mound, evaporation ponds, or other non-conventional systems. For non-conventional system, contact district engineer.</p> <p>For systems exceeding 2,000 gallons per day, contact the Underground Injection Control Program at 307-777-7781 or refer to: http://deq.wyoming.gov/wqd/underground-injection-control/</p>	WQD USE ONLY	
	App. No	
	Date	

Complete attached package and submit to appropriate office:

DEQ/ Water Quality Division 200 W. 17th St.- 4th Floor Cheyenne, WY 82002 (307) 777-7781	DEQ/Water Quality Division 510 Meadowview Drive Lander, WY (307) 332-3144	DEQ/Water Quality Division 152 North Durbin Street, Suite 100 Casper, WY 82601 (307) 473-3465
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Please see: https://gis.deq.wyoming.gov/maps/www_districts/index.html to locate nearest office.

Name of Project:			
Description of Project:			
Location:	County:		
	¼ ¼ Section		Section
	Township		Range
	Subdivision Name		
	Lot and Block		

ACCESS ROUTE

As part of this application, the applicant shall certify under penalty of perjury that the applicant has secured and shall maintain permission for Department of Environmental Quality personnel and their invitees to access the permitted site, including (i) permission to access the land where the site is located, (ii) permission to collect resource data as defined by Wyoming Statute § 6-3-414, and (iii) permission to enter and cross all properties necessary to access the site if the site cannot be directly accessed from a public road. A map of the access route(s) to the site shall accompany this application. **Attach map as a separate sheet.**

SIGNATURES

All undersigned certify under penalty of perjury that the owner or applicant has secured and shall maintain permission for Department of Environmental Quality personnel and their invitees to access the permitted site, including (i) permission to access the land where the site is located, (ii) permission to collect resource data as defined by Wyoming Statute § 6-3-414, and (iii) permission to enter and cross all properties necessary to access the site if the site cannot be directly accessed from a public road. All undersigned agree to comply with all applicable Wyoming Statutes and Regulations and to allow the activities described in this application.

Real Estate Owner (signature required)	Engineer/Geologist (required for all commercial systems)	
Sign Above	Sign Above	
Printed Name:	Printed Name:	
Title:	Title:	
Mailing Address	Mailing Address	
City, State	City, State	
Zip	Zip	
Phone Number	Phone Number	
Email	Email	
	WY P.E.#	WY P.G.#

PROPERTY INFORMATION AND INSTALLER

PROPERTY	County	
	Physical Address	
	Size	feet by feet OR acres
	Type of Building	
		(single family dwelling, mobile home, commercial, etc.)
Water Source Check one	<input type="checkbox"/> Private well SEO Well Number _____ <input type="checkbox"/> Cistern <input type="checkbox"/> Community Well _____ (name) <input type="checkbox"/> Municipal _____ (name)	
Is the septic system in compliance with a county approved plat? _____ Yes _____ No		
Attach the legal description of property (from Sales Contract or Deed)		
Is this a replacement septic tank and/or leachfield? _____ Yes _____ No		
INSTALLER	Name	
	Mailing Address	
	City, State	
	Phone	
	Email	
Additional comments:		

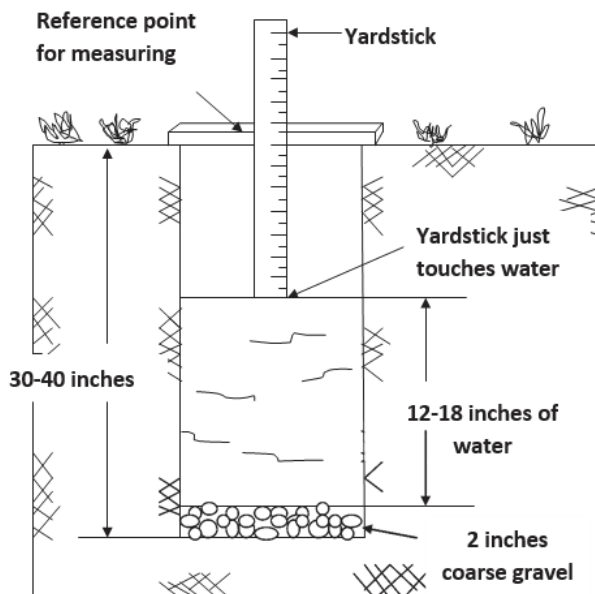
Legal Description (or attach copy)

PERCOLATION TESTS

In order for a septic system to perform properly, the wastewater needs to be effectively treated by the soil and percolate or travel through the soil in a reasonable amount of time to be appropriately treated.

PERCOLATION TEST PROCEDURE INSTRUCTIONS

1. Location of Percolation Test Holes - The percolation (perc) test holes shall be spaced uniformly over the proposed soil absorption (leachfield) site. A **minimum of three (3) test holes** are required. More than 3 can be used if desired.
2. Test Hole Preparation - Test holes that are **4 to 12 inches** in diameter shall be dug or bored to the proposed depth of the leach field (typical depths are **30 to 40 inches**). The side walls shall be vertical and a natural soil surface (one which is not smeared from digging) shall be exposed by scraping the sides and bottom of the test hole with a sharp pointed instrument. Any loose material shall be removed from the test hole and several inches of coarse sand or gravel placed in the bottom of the test hole in order to prevent scouring and sealing before the water is poured in.
3. Presoaking - **PRESOAKING IS ABSOLUTELY REQUIRED** in order to get valid percolation test results. The purpose of presoaking is to have the water conditions in the soil reach a stable condition similar to that which exists during continual wastewater application in a leachfield. The minimum time of presoaking varies with soil type and presoaking instructions are usually sufficient to establish the proper soil moisture conditions.
 - a. Sandy or loose soils - Fill the test hole to within several inches of the top and allow it to seep away. Fill the hole a 2nd and 3rd time and let the water seep away. If the water continues to all seep away in ten (10) minutes or less, this indicates that the soil is excessively permeable and the site is unsuitable for a standard subsurface disposal system. In this case, special requirements are needed and you'll need to contact your County Official.
 - b. Other suitable soils - If the soil is suitable for a standard subsurface leachfield, then the test holes should be presoaked for at least 4 hours. Maintain at least 12 inches of water in the test holes for at least 4 hours, then allow the soil to swell for 12 hours (overnight is good) before starting the actual perc test measurements.
4. Percolation Rate Measurements - Start the test by filling each test hole with approximately **12 to 18 inches** of water. Let the soil re-hydrate for about 15 minutes and then refill to 12 to 18 inches deep. Next, decide on a time interval for your test. Time intervals of **10 or 15 minutes** are typical. Once decided, the time interval must remain constant throughout the test so that it can be determined when the water level drop rate has stabilized. Measure the initial water level (from a fixed reference point such as a flat board across the top of the hole) in each hole and record on the first line for each hole in the test data table. After each water level measurement, calculate the water level drop from the previous measurement and record in the test data table. Continue the test until the water level drop rate has stabilized; i.e. - **3 consecutive equal drop rates** within 1/8 inch of each other. Please note that some test holes may take longer than others to stabilize. The test should be continued at each test hole until each drop rate stabilizes. Also, please note, a **minimum of 6 inches** of water should be maintained in the test hole. If the level drops below 6 inches, some additional water should be added between time intervals. If water level drops fluctuate, use the final of 6 intervals for calculations.



Section View of a typical percolation test. Yardstick is lowered to the surface of the water after each time interval. Time interval and measurement are noted and recorded. When measuring use the reference point as a guide.

PERCOLATION TEST DATA

Performed by: _____ Test Date: _____

INTERVAL: The water levels were measured every _____ minutes.

Holes were pre-soaked for _____ (time).

	Hole #1		Hole #2		Hole #3		Hole #4		Hole #5		Hole #6	
Depth of Hole												
Elapsed Time	Water Level	Drop (inches)	Water Level	Drop (inches)	Water Level	Drop (inches)	Water Level	Drop (inches)	Water Level	Drop (inches)	Water Level	Drop (inches)

Time Interval												
Final Drop												
Perc. Rate												

TO CALCULATE PERCOLATION RATE

Percolation Rate (MPI) = Time Interval (minutes) ÷ Final Drop (in inches)
 Example: 10 minutes ÷ 2-1/8" inches final drop = 10 ÷ 2.125 = 4.70 minutes per one inch drop (MPI)

Helpful Conversions: 1/8" = 0.125, 1/4" = 0.25, 3/8" = 0.375, 1/2" = 0.50, 5/8" = 0.625, 3/4" = 0.75, 7/8" = 0.875

ABSORTION SYSTEM DESIGN PERCOLATION RATE: If 3 to 5 holes were tested, use the slowest (highest number) rate from all of the holes tested. If 6 or more holes were tested, use the average rate.

SITE SUITABILITY

The owner must be aware of the depth of the impermeable soil layer, the seasonally high groundwater level, and slope when considering the septic system location.

Please check off the following and complete as indicated:

Excavation	Was an excavation conducted within the proposed location of the leachfield?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
	Was bottom of the excavation at least <u>4 feet below</u> the bottom of the proposed leachfield?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
	Was a color photograph taken of the excavation, showing a tape measure? If so, please submit photograph with application.	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
	Depth of Excavation?				
	Who conducted the excavation?				
	Date excavation was conducted?				
Impermeable Layer	Was a rock layer observed?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
	If yes, at what depth below ground surface?				
	Was a clay layer observed?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
	If yes, at what depth below ground surface?				
Seasonal High Groundwater	Was groundwater present in the excavation?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
	If so, at what depth below ground surface?				
	Did the soil have a mottled color (which can be indicative of groundwater)?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
	If so, at what depth below ground surface?				
	Was the soil stained a dark color or was a salt/alkali layer encountered?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
	If so, at what depth below ground surface?				
	What is the estimated slope of the proposed leachfield area?				
Slope	How far away is the nearest break in slope (such as the side of a hill)?				
	How far away is the nearest drainage ditch or surface water body, such as a river, pond, creek, etc.?				
	Was a color photograph taken of the proposed leachfield area?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

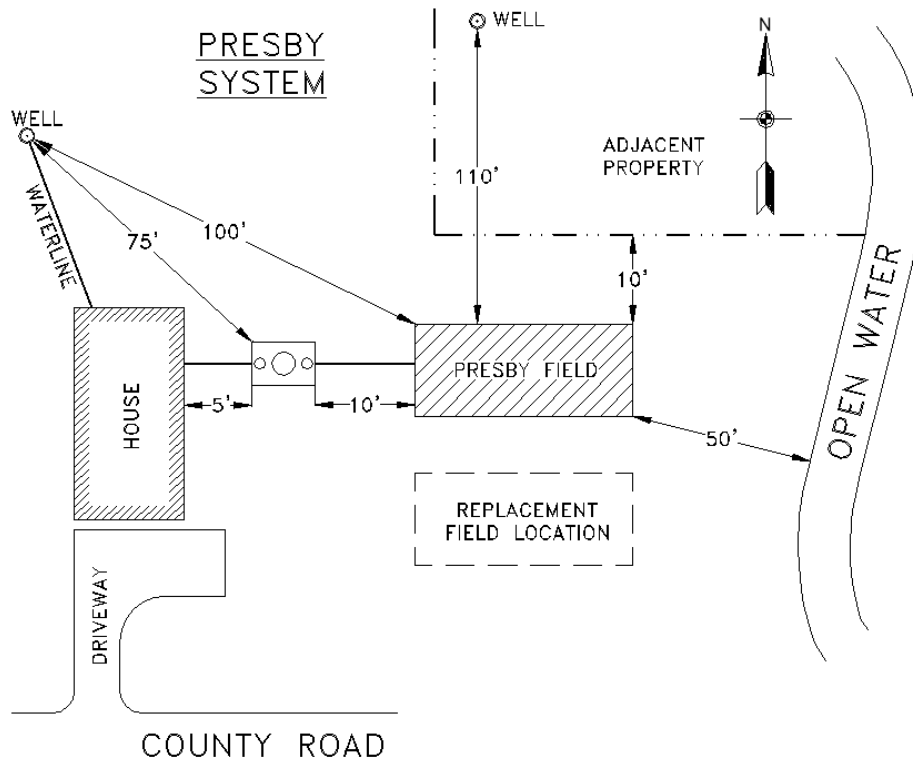
Attach a color photograph of the excavation and proposed location of the leachfield.

SITE PLAN DRAWING

Provide a sketch of your site, showing the following (check off those items included on your site plan):

Property lines	Leachfield
All buildings	Replacement leachfield
Surface water (ditch, creek, pond, etc.)	Slope of land (drawn as an arrow indicating general slope direction)
Water lines	North arrow
All wells within 200 feet	Access road to house or driveway
Septic tank	

Example site plan:



Your septic system MUST have the following minimum separation distances:

From	To Septic Tank	To Leachfield
Wells	50 feet	100 feet
Open waterways	50 feet	50 feet
Potable water lines	25 feet	25 feet
Building foundation without foundation	5 feet	10 feet
Building foundation with a	5 feet	25 feet
Break in slope	15 feet	15 feet
Property line	10 feet	10 feet
Septic tank	Not applicable	10 feet

SITE PLAN

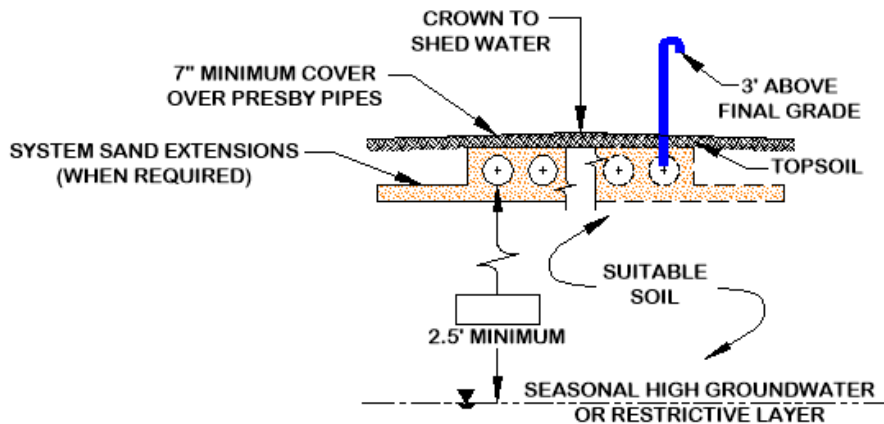
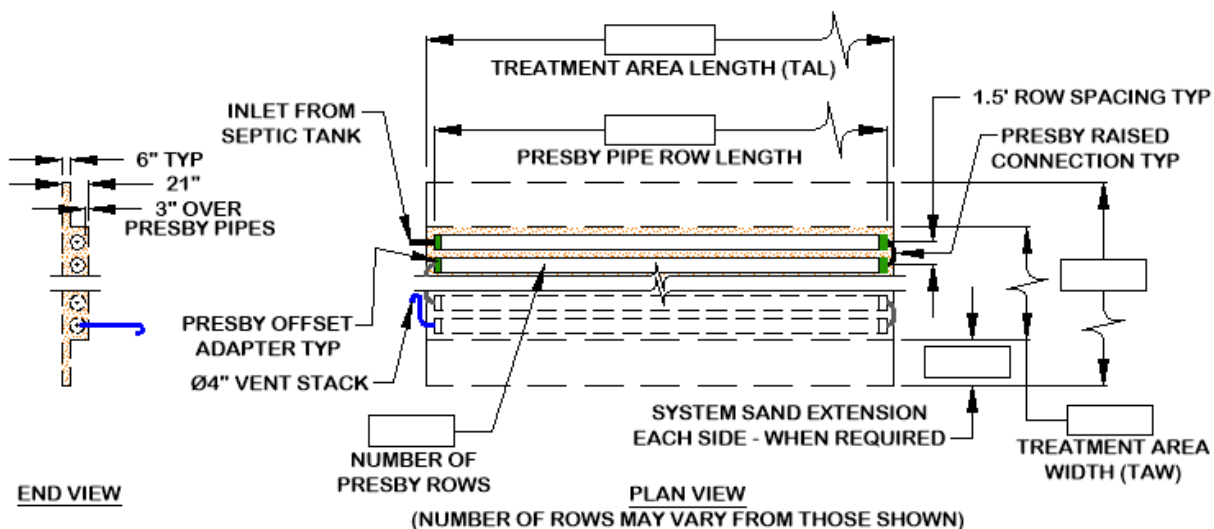
LEVEL IN-GROUND SYSTEM DESIGN & CONFIGURATION

PLEASE CHECK ONE	Permanent Structure (single family residence)	_____ number of bedrooms → = _____ GPD 2 bedrooms (280 GPD) minimum and 5 bedrooms (550 GPD) maximum Use Presby High Flow application for systems over 5 bedrooms.					
	Mobile Home (single family residence)	_____ number of bedrooms → = _____ GPD 2 bedrooms (280 GPD) minimum and 5 bedrooms (550 GPD) maximum Use Presby High Flow application for systems over 5 bedrooms.					
	Non-Residential	_____ GPD (600 GPD maximum)					
DESIGN FLOW (GPD)		Box #1 _____ GPD from above					
PLEASE CHECK ONE	Percolation Rate (MPI)	Loading Rate GPD/sq ft	Percolation Rate (MPI)	Loading Rate GPD/sq ft	Percolation Rate (MPI)	Loading Rate GPD/sq ft	
	Up to 5	1.60	16	1.01	32 - 33	0.75	
	6	1.50	17	0.99	34 - 35	0.74	
	7	1.42	18	0.96	36 - 37	0.72	
	8	1.36	19	0.94	35 - 40	0.70	
	9	1.30	20	0.92	41 - 43	0.68	
	10	1.25	21	0.90	44 - 46	0.66	
	11	1.19	22	0.88	47 - 50	0.64	
	12	1.15	25	0.84	51 - 55	0.62	
	13	1.11	26 - 27	0.82	56 - 60	0.60	
14	1.07	28 - 29	0.79				
15	1.05	30 - 31	0.77				
LOADING RATE (GPD/SQ FT)		Box #2 _____ GPD/sq ft (from above)					
INFILTRATIVE SAND BED AREA REQUIRED (square feet)		Box #3 Daily Design Flow (Box #1) ÷ Loading Rate (Box #2) = _____ GPD ÷ _____ GPD/sq ft = _____ sq ft					
PRESBY PIPE REQUIRED (feet)		Box #4 Daily Design Flow (Box #1) ÷ 3 GPD/ft = _____ GPD ÷ 3 GPD/ft = _____ ft minimum					

Complete the illustration on the next page by using the adjoining 2, 3 and 4 bedroom tables.

BASIC SERIAL SYSTEM

(UP TO 5 BEDROOMS - 550 GPD)



NOTES:

1. BASIC SERIAL SYSTEMS (AS SHOWN) DO NOT REQUIRE A DISTRIBUTION BOX.
2. SYSTEM SAND MUST MEET REQUIREMENTS SPECIFIED IN PRESBY DESIGN AND INSTALLATION MANUAL.
3. A 4" DIAMETER VENT STACK MUST BE ATTACHED TO THE END OF THE LAST ROW IN THE SERIES.
4. EFFLUENT FILTERS ARE NOT RECOMMENDED FOR USE WITH PRESBY SYSTEMS. THEY WILL RESTRICT AIR FLOW.
5. ALL PVC JOINTS MUST BE GLUED OR MECHANICALLY FASTENED.
6. CONSULT PRESBY DESIGN AND INSTALLATION MANUAL FOR COMPLETE SYSTEM REQUIREMENTS.



Presby Environmental, Inc.

143 Airport Road
Whitefield, NH 03598
800-473-5298

The Next Generation of Wastewater Technology

2 BEDROOMS – 280 GPD			
Percolation Rate (MPI)	30 ft Row 4 Rows TAL = 31' TAW = 6.5'	35 ft Row 3 Rows TAL = 36' TAW = 5'	50 ft Row 2 Rows TAL = 51' TAW = 3.5'
	System Sand Extension ft (both sides of Presby Pipes)		
5	0.00	0.00	0.00
6	0.00	0.25	0.25
7	0.00	0.25	0.25
8	0.25	0.50	0.50
9	0.25	0.50	0.50
10	0.50	0.75	0.50
11	0.75	1.00	0.75
12	0.75	1.00	0.75
13	1.00	1.25	0.75
14	1.00	1.25	1.00
15	1.25	1.25	1.00
16	1.25	1.50	1.00
17	1.50	1.50	1.25
18	1.50	1.75	1.25
19	1.75	1.75	1.25
20	1.75	1.75	1.25
21	2.00	2.00	1.50
22	2.00	2.00	1.50
23 - 24	2.25	2.25	1.50
25	2.25	2.25	1.75
26 - 27	2.50	2.25	1.75
28 - 29	2.50	2.50	1.75
30 - 31	2.75	2.50	2.00
32 - 33	2.75	2.75	2.00
34 - 35	3.00	3.00	2.00
36 - 37	3.25	3.00	2.25
38 - 40	3.25	3.25	2.25
41 - 43	3.50	3.25	2.50
44 - 46	3.75	3.50	2.50
47 - 50	4.00	3.75	2.75
51 - 55	4.25	4.00	2.75
56 - 60	4.50	4.00	3.00

3 BEDROOMS – 390 GPD				
Percolation Rate (MPI)	30 ft Row 5 Rows TAL = 31' TAW = 8'	35 ft Row 4 Rows TAL = 36' TAW = 6.5'	45 ft Row 3 Rows TAL = 46' TAW = 5'	65 ft Row 2 Rows TAL = 66' TAW = 3.5'
	System Sand Extension ft (both sides of Presby Pipes)			
5	0.00	0.25	0.25	0.25
6	0.25	0.50	0.50	0.25
7	0.50	0.75	0.50	0.50
8	0.75	0.75	0.75	0.50
9	1.00	1.00	1.00	0.75
10	1.25	1.25	1.00	0.75
11	1.50	1.50	1.25	0.75
12	1.50	1.50	1.25	1.00
13	1.75	1.75	1.50	1.00
14	2.00	2.00	1.50	1.25
15	2.00	2.00	1.75	1.25
16	2.25	2.25	1.75	1.25
17	2.50	2.25	2.00	1.25
18	2.75	2.50	2.00	1.50
19	2.75	2.75	2.25	1.50
20	3.00	2.75	2.25	1.50
21	3.00	3.00	2.25	1.75
22	3.25	3.00	2.50	1.75
23 - 24	3.50	3.25	2.50	1.75
25	3.50	3.25	2.75	2.00
26 - 27	3.75	3.50	2.75	2.00
28 - 29	4.00	3.75	3.00	2.00
30 - 31	4.25	3.75	3.00	2.25
32 - 33	4.50	4.00	3.25	2.25
34 - 35	4.75	4.25	3.25	2.25
36 - 37	4.75	4.50	3.50	2.50
38 - 40	5.00	4.50	3.75	2.50
41 - 43	5.50	4.75	3.75	2.75
44 - 46	5.75	5.00	4.00	2.75
47 - 50	6.00	5.25	4.25	3.00
51 - 55	6.25	5.50	4.50	3.25
56 - 60	6.50	6.00	4.75	3.25

4 BEDROOMS – 470 GPD					
Percolation Rate (MPI)	30 ft Row 6 Rows TAL = 31' TAW = 9.5'	35 ft Row 5 Rows TAL = 36' TAW = 8'	40 ft Row 4 Rows TAL = 41' TAW = 6.5'	55 ft Row 3 Rows TAL = 56' TAW = 5'	80 ft Row 2 Rows TAL = 81' TAW = 3.5'
	System Sand Extension ft (both sides of Presby Pipes)				
5	0.00	0.25	0.50	0.25	0.25
6	0.50	0.50	0.75	0.50	0.25
7	0.75	0.75	1.00	0.50	0.50
8	1.00	1.00	1.00	0.75	0.50
9	1.25	1.25	1.25	0.75	0.50
10	1.50	1.25	1.50	1.00	0.75
11	1.75	1.50	1.75	1.25	0.75
12	2.00	1.75	1.75	1.25	1.00
13	2.25	2.00	2.00	1.50	1.00
14	2.50	2.25	2.25	1.50	1.00
15	2.50	2.25	2.25	1.50	1.25
16	3.00	2.50	2.50	1.75	1.25
17	3.00	2.75	2.75	1.75	1.25
18	3.25	3.00	2.75	2.00	1.50
19	3.50	3.00	3.00	2.00	1.50
20	3.50	3.25	3.00	2.25	1.50
21	3.75	3.50	3.25	2.25	1.50
22	4.00	3.50	3.50	2.50	1.75
23 - 24	4.25	3.75	3.50	2.50	1.75
25	4.50	4.00	3.75	2.50	1.75
26 - 27	4.50	4.00	3.75	2.75	2.00
28 - 29	4.75	4.25	4.00	2.75	2.00
30 - 31	5.00	4.50	4.25	3.00	2.00
32 - 33	5.25	4.75	4.50	3.25	2.25
34 - 35	5.50	5.00	4.50	3.25	2.25
36 - 37	6.00	5.25	4.75	3.50	2.50
38 - 40	6.25	5.50	5.00	3.50	2.50
41 - 43	6.50	5.75	5.25	3.75	2.75
44 - 46	6.75	6.00	5.50	4.00	2.75
47 - 50	7.25	6.25	5.75	4.25	3.00
51 - 55	7.50	6.75	6.00	4.50	3.00
56 - 60	8.00	7.00	6.50	4.50	3.25

5 BEDROOMS – 550 GPD						
Percolation Rate (MPI)	30 ft Row 7 Rows TAL = 31' TAW = 11'	35 ft Row 6 Rows TAL = 36' TAW = 9.5'	40 ft Row 5 Rows TAL = 41' TAW = 8'	50 ft Row 4 Rows TAL = 51' TAW = 6.5'	65 ft Row 3 Rows TAL = 66' TAW = 5'	95 ft Row 2 Rows TAL = 96' TAW = 3.5'
	System Sand Extension ft (both sides of Presby Pipes)					
5	0.25	0.25	0.25	0.25	0.25	0.25
6	0.50	0.50	0.50	0.50	0.50	0.25
7	0.75	0.75	0.75	0.75	0.50	0.50
8	1.25	1.00	1.00	0.75	0.75	0.50
9	1.50	1.25	1.25	1.00	0.75	0.50
10	1.75	1.50	1.50	1.25	1.00	0.75
11	2.00	1.75	1.75	1.50	1.25	0.75
12	2.25	2.00	2.00	1.50	1.25	0.75
13	2.50	2.25	2.25	1.75	1.50	1.00
14	3.00	2.50	2.50	2.00	1.50	1.00
15	3.00	2.75	2.50	2.00	1.50	1.00
16	3.50	3.00	2.75	2.25	1.75	1.25
17	3.50	3.00	3.00	2.25	1.75	1.25
18	3.75	3.25	3.00	2.50	2.00	1.25
19	4.00	3.50	3.25	2.50	2.00	1.50
20	4.25	3.75	3.50	2.75	2.25	1.50
21	4.50	3.75	3.50	2.75	2.25	1.50
22	4.75	4.00	3.75	3.00	2.25	1.75
23 - 24	5.00	4.25	4.00	3.25	2.50	1.75
25	5.25	4.50	4.00	3.25	2.50	1.75
26 - 27	5.50	4.75	4.25	3.50	2.75	1.75
28 - 29	5.75	5.00	4.50	3.50	2.75	2.00
30 - 31	6.00	5.25	4.75	3.75	3.00	2.00
32 - 33	6.25	5.50	5.00	4.00	3.00	2.25
34 - 35	6.50	5.75	5.25	4.25	3.25	2.25
36 - 37	7.00	6.00	5.50	4.25	3.50	2.25
38 - 40	7.25	6.25	5.75	4.50	3.50	2.50
41 - 43	7.75	6.50	6.00	4.75	3.75	2.50
44 - 46	8.00	7.00	6.25	5.00	4.00	2.75
47 - 50	8.50	7.25	6.50	5.25	4.25	2.75
51 - 55	9.00	7.75	7.00	5.50	4.25	3.00
56 - 60	9.50	8.00	7.25	5.75	4.50	3.25

SEPTIC TANK DESIGN WORKSHEET

(To be completed ONLY if tank is not on approved list)

Materials:

Inside Dimensions (in inches):

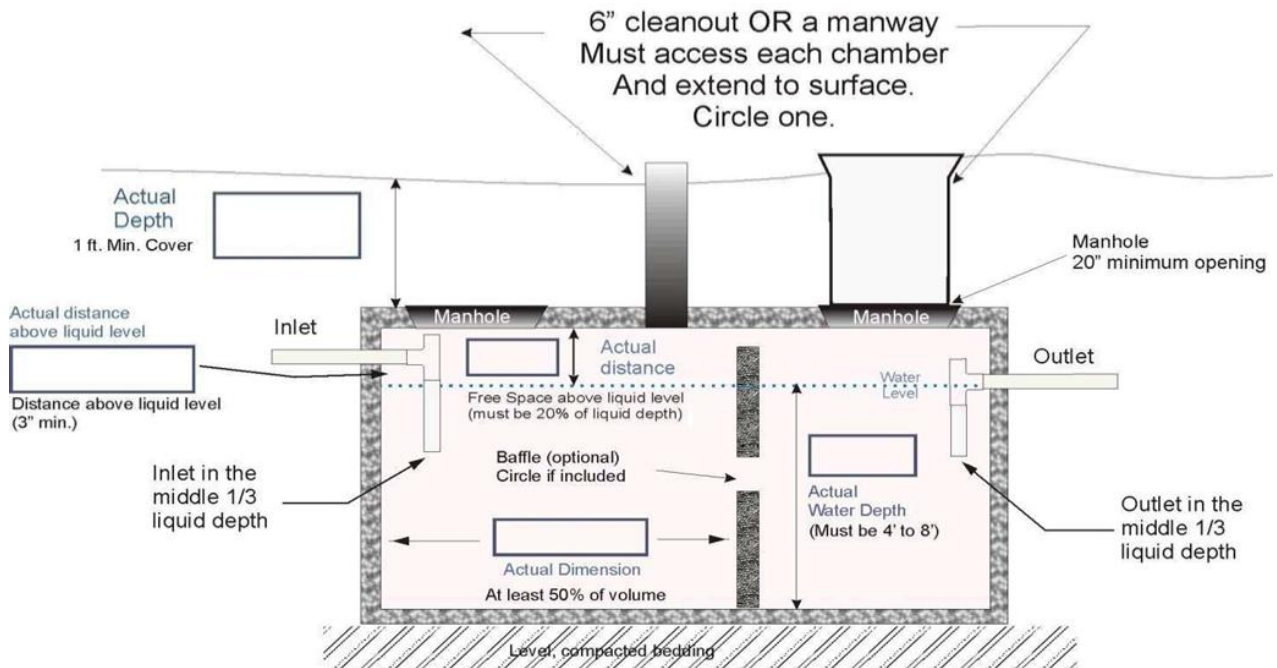
Length: _____ Width: _____ Height: _____

Liquid Depth: _____

Air Space: _____

Operating Capacity = (Length x Width x Liquid Depth) ÷ 231 = _____ gallons

Fill in all blue boxes below:



All requirements listed below and shown on the illustration apply to any tank used or site-built:

1. All small wastewater systems using a septic tank must have a minimum operating capacity of 1,000 gallons. Additional capacity of 250 gallons per bedroom is required for each bedroom past four. Either one or two tanks may be used to meet this requirement.
2. The septic tank must be constructed of durable material not subject to rapid corrosion or decay and must be structurally sound and watertight. Steel tanks are not allowed.
3. Single compartment tanks shall have a minimum length to width ratio of 2: 1.
4. Two compartment tanks shall have at least 50% of the volume in the first compartment.
5. Each compartment of the tank shall have an access opening with a minimum dimension of 20 inches in the least direction. Both inlet and outlet devices shall be accessible.
6. Clean-outs extending from each compartment to the surface with a minimum diameter of 6 inches must be provided. The access openings may be extended to the ground surface by use of a manway in lieu of a cleanout riser. All openings must be capped.

How to use Basic Serial System Tabulated Bed Information

The tables are constructed with percolation rate in the first column followed by columns by Presby pipe row length:

2 BEDROOMS – 280 GPD			
Percolation Rate (MPI)	30 ft Row 4 Rows TAL = 31' TAW = 6.5'	35 ft Row 3 Rows TAL = 36' TAW = 5'	50 ft Row 2 Rows TAL = 51' TAW = 3.5'
	System Sand Extension ft (both sides of Presby Pipes)		
5	0.00	0.00	0.00
6	0.00	0.25	0.25

The table also shows the required System Sand Extension:

2 BEDROOMS – 280 GPD			
Percolation Rate (MPI)	30 ft Row 4 Rows TAL = 31' TAW = 6.5'	35 ft Row 3 Rows TAL = 36' TAW = 5'	50 ft Row 2 Rows TAL = 51' TAW = 3.5'
	System Sand Extension ft (both sides of Presby Pipes)		
5	0.00	0.00	0.00
6	0.00	0.25	0.25
7	0.00	0.25	0.25
8	0.25	0.50	0.50
9	0.25	0.50	0.50
47 - 50	4.00	3.75	2.75
51 - 55	4.25	4.00	2.75
56 - 60	4.50	4.00	3.00

Select a row length suitable for the site and the site's percolation rate. Then transfer information from the table the illustration:

