

MONTGOMERY COUNTY HEALTH DEPARTMENT HOME HEALTH AGENCY



400 Sallsbury ▪ Montgomery City, MO 63361
Phone: 573 564-2495 ▪ Fax 573 564-5059 ▪ Web: www.montgomerycountyhealth.org

Public Health
Prevent. Promote. Protect.

Please read the important information below and on the back of this page **BEFORE** completing the on-site sewage system permit application.

1. The role of the Environmental Services as the assigned administrator of County Sewer Ordinance is to provide:
 - a. Information
 - b. Permit application review
 - c. A preliminary on-site inspection to verify the permit application information and compliance with local regulations
 - d. A final installation inspection.

For registered contractors a twenty-four hour notice is required before backfilling trenches. Non-registered contractors must give a forty-eight hour notice before backfilling trenches. Please contact the Environmental Health Program to arrange an inspection of your sewage system.

2. The permit fee is one hundred sixty-five dollars (\$165.00 check or money order, only), please make payable to the Montgomery County Health Department. The application will not be reviewed unless the permit fee is received. The permit fee covers the services mentioned in statement one. Any person requesting additional inspections or consultation after the permit is approved will be charged at the rate of twenty-five dollars per hour (\$25.00/hour) or any portion of an hour thereof including travel time.
3. The Environmental Services does not design on-site sewage systems. You may design your own wastewater stabilization pond or absorption system if soil conditions are appropriate for the system you wish to install. Alternative systems are required to be designed by a licensed professional engineer.
4. **THE APPLICANT IS RESPONSIBLE FOR FULLY COMPLETING THE PERMIT APPLICATION AND PROVIDING ANY DOCUMENTATION REQUESTED BY THE ENVIRONMENTAL SERVICES. ALL INFORMATION MUST BE ACCURATE. ANY PERMIT APPLICATION WHICH IS INCOMPLETE OR INACCURATE SHALL NOT BE APPROVED.**
The application must include: the diagram of the system location (complete with distances to structures, water sources and property lines), and the application must be signed by the owner or agent of the owner.
5. Undeveloped lots must meet all the minimum setback acreage requirements. There shall be no exceptions. Developed lots existing prior to January 1, 1996 may be granted variances by the Montgomery County Board of Review.
6. Contact this office at 573-564-2495 to set up and appointment. Our environmental public health inspector, Terri Andrews, is in the office on Monday, Wednesday, and Friday 8:30 a.m. to 10:30 a.m. You may drop off the application during the health department's normal business hours or sent it by mail.

SEE BACK OF THIS PAGE FOR MORE INFORMATION!

**EQUAL OPPORTUNITY AFFIRMATIVE ACTION EMPLOYER
SERVICES PROVIDED ON A NON-DISCRIMINATORY BASIS**

Specifications:

1. All new buildings, private or commercial, where people live, work, or assemble are required by County Ordinance to obtain a permit for all septic system installations. Previous to the occupation of said buildings a permitted, to code, septic system shall be installed and in operating condition. Commercial business wishing to install a lagoon must apply to the Missouri Department of Natural Resources in Jefferson City, MO for a construction permit – call 573-751-2729. A list of registered installers is available at <http://health.mo.gov/living/environment/onsite/ose/Montgomery.php>.
2. All permitted systems (including lagoons) shall have either a percolation test or a soil morphology examination performed by a person or persons registered with the State of Missouri. Results of these tests must be submitted with the permit application. A list of registered soil scientists is available at <http://health.mo.gov/living/environment/onsite/counties/index.php>.
3. Diagram specifications for sites plans:
 - A. Plans for absorption field showing the following:
 1. Field locations with slope(s) indicated or with contour lines based on field measurement. If field areas are essentially flat or of uniform grade, spot elevations will be required for alternate systems;
 2. Field layout, length spacing connection, pipe sizes and cleanouts details, invert elevations of flow distribution devices and laterals, valves and appurtenances (accessory);
 3. Trench plan and profile drawings and flow distribution device details;
 4. Location and design of associated surface and groundwater drainage systems;
 5. Name, address and telephone number of the person(s) drafting the plans; and
 6. Any other information required by the administrative authority.
 - B. Alternative systems whether or not specifically described in this rule must have:
 1. Engineer diagram required.
4. Any person planning on building in Montgomery County must apply for a building permit from the office of Planning and Zoning – located across 4th Street from the health department at 310 Salisbury, Suite D, Montgomery City, MO 63361 or call 573-564-2142.

**MONTGOMERY COUNTY ENVIRONMENTAL SANITATION ON-SITE
SEWAGE DISPOSAL SYSTEM PERMIT APPLICATION**

OFFICE USE ONLY

Received ___/___/___ Approved ___/___/___ Paid \$165 on ___/___/___
 Expires ___/___/___ Reviewed by: _____ Permit # _____

1. Property Owner/Agent _____ Home Phone (____) _____
 Mailing Address _____ Work Phone (____) _____

 Site Address _____ Lot # _____ Lot Size _____

 Directions to Site (From Montgomery City): _____ Parcel ID # _____

Legal Description : Section _____ Township _____ Range _____

2. Type on Installation: New Modification/Repair
 Type of Building: Single-Family Multi-Family Business
 Number of Bedrooms: _____
 Water Supply: Public Private

3. Soil Information: Percolation Test Soil Morphology/Evaluation

*** Percolation tests and/or soil evaluations must be performed by a qualified person prior to design of designing of the system. Include the results with the completed application and \$165.00 permit fee.**

4. Proposed System (Complete only pertinent information)

4A. Waste Stabilization Pond (Lagoon)

Dimensions (length x width or diameter): _____
 Total Water Surface Area (square feet): _____
 Working Depth: _____
 Distance of: Overflow to property line _____
 Nearest property line _____
 Nearest neighboring residence _____
 Setbacks from residence _____

4B. Sewage Tank

Type of Tank: Conventional Tank Aeration Unit
 Manufacturer: _____
 Material: Concrete Plastic Fiberglass Metal Other
 Volume (gallons): _____
 Absorption Field: Total Absorption Area _____
 # if Trenches _____ Trench Width _____ Trench Depth _____
 Distance of: Tank to well _____ Tank to residence _____
 Field to well _____ Field to residence _____
 Field to property line _____ Field to stream or lake _____
 Field to water lines _____

4C. Alternative System

Low Pressure Pipe System Single Pass Sand Filter Wetlands

Mound System Drip Irrigation Other (Specify) _____

Include engineer design and other supporting information

5. Installer

Name: _____ Phone: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Registered: Yes No

***All information contained in and with this application is true and accurate to the best of my knowledge.**

6. Signature of Owner or Agent: _____

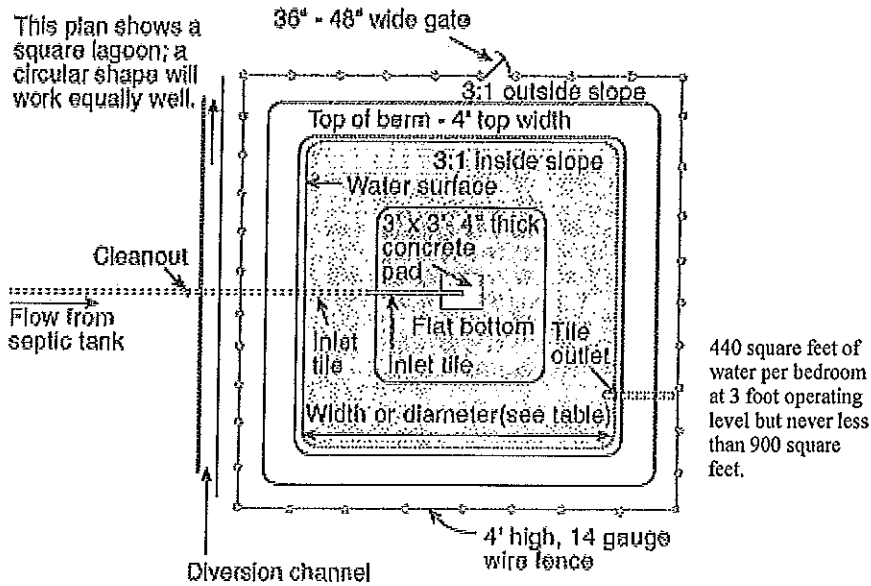
Date: ___/___/___

7. Site Layout

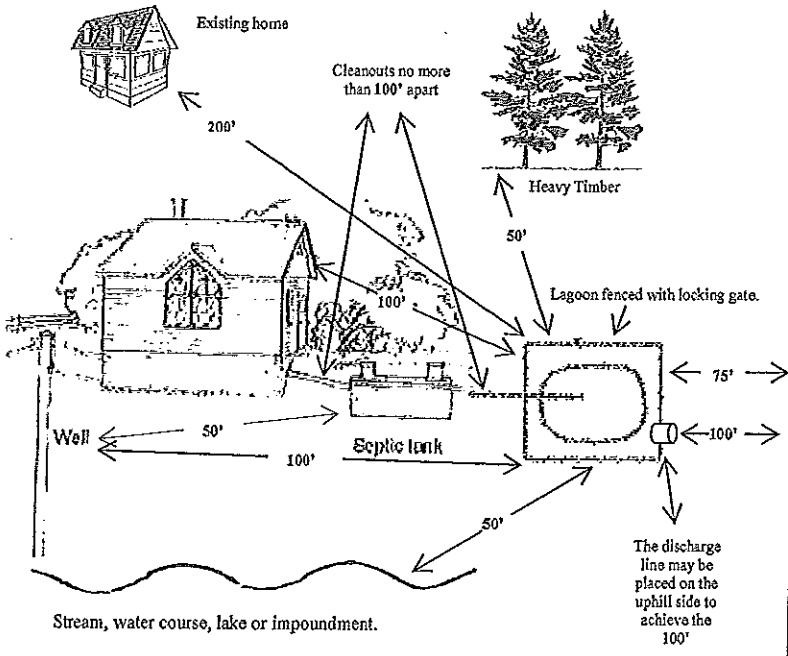
1. Show property lines and dimensions to reflect the shape and size of the property.
2. Diagram proposed system. Show appropriate elevations to indicate proper fall for system.
3. Show distances to house, well, water lines, property lines, geological features such as sinkholes, rock outcrops, lakes, ponds, creeks, etc.
4. Show distances to neighbors wells, homes, etc.
5. Show locations of all percolation test holes or soil evaluation test pits.
6. Indicate any known easements that exist for utilities, roads, private driveways, or other easements.

This plan shows a square lagoon; a circular shape will work equally well.

Plastic pipe meeting minimum requirements of (ASTM) Standards F789-85 and D3034-81, Schedule 40 PVC, cast iron or vitrified clay and all with approved type joints.



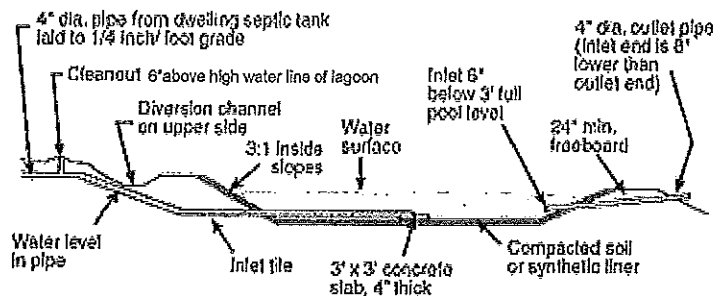
440 square feet of water per bedroom at 3 foot operating level but never less than 900 square feet.



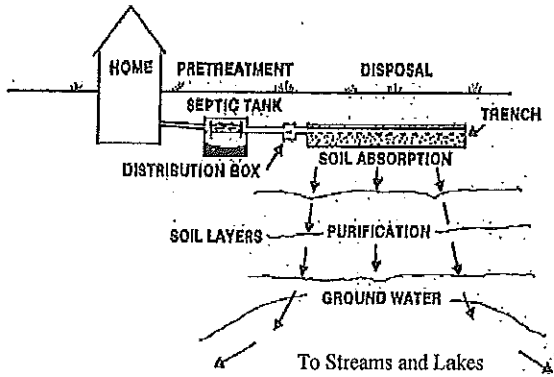
Dwelling Septic Tank Capacity

Number of Bedrooms	Minimum Liquid Capacity (gallons)
1-3	1000
4	1250
5	1500

These figures provide for use of garbage grinders, automatic clothes washers and other household appliances. Garbage grinders are not recommended due to the introduction of fats and other high organic loads.



Slopes no steeper than 3:1, Inner slope no flatter than 4:1



Septic Tank and Absorption Field

Minimum Set-Back Distances

Minimum Distance From	Sewage Tank (1)	Disposal Area (2)	Lagoons
Private Water Supply well (3)	(feet) 50	(feet) 100	(feet) 100
Public Water Supply well	300	300	300
Cistern	25	25	25
Classified Stream, Lake or Impoundment*	50	50	50
Stream or open ditch (4)	25	25	25
Property Lines	10	10**	75
Building foundation	5	15	15
Basement	15	25	25
Swimming pool	15	15	15
Water line under pressure	10	10	10
Suction water line	50	100	100
Upslope interceptor drains	-	20	20
Downslope interceptor drains	-	25	25
Top of slope of embankments or cuts of two feet (2') or more vertical height	-	20	20
Edge of surficial sink holes	50	100	500
Other soil absorption system except repair area	-	20	20

*A classified stream is any stream that maintains permanent flow or permanent pools during drought periods and supports aquatic life.

**Recommend twenty-five feet (25') of downslope property line initially, but repair may be allowed to ten feet (10') of downslope property line.

(1) Includes sewage tanks, intermittent sand filters and dosing chambers.

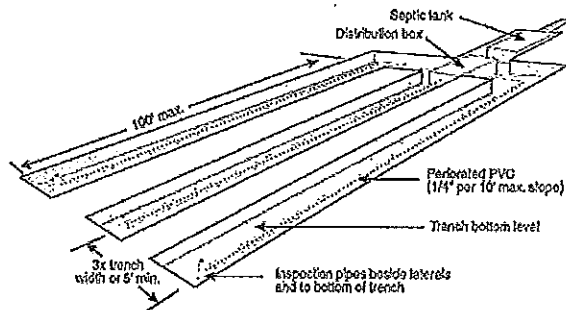
(2) Includes all systems (sand filter, wetland and the like) except wastewater stabilization ponds.

(3) Unplugged abandoned wells or wells with less than eighty feet (< 80') of casing depth shall have one-hundred-fifty feet (150') minimum distance from all above.

(4) Sewage tanks and soil absorption systems should never be located in the drainage area of a sinkhole.

Number of Bedrooms	Minimum Liquid Capacity (gallons)
1-3	1000
4	1250
5	1500

*These figures provide for use of garbage grinders, automatic clothes washers and other household appliances. Garbage grinders are not recommended due to the introduction of fats and other high organic loads.



701.031. Disposal of sewage, who, how, exception. --

Property owners of all buildings where people live, work or assemble shall provide for the sanitary disposal of all domestic sewage. Except as provided in this section, sewage and waste from such buildings shall be disposed of by discharging into a sewer system regulated pursuant to chapter 644, RSMo, or shall be disposed of by discharging into an on-site sewage disposal system operated as defined by rules promulgated pursuant to sections 701.025 to 701.059.

Except as provided in this section, any construction, operation, major modification or major repair of an on-site sewage disposal system shall be in accordance with rules promulgated pursuant to sections 701.025 to 701.059, regardless of when the system was originally constructed. The provisions of subdivision (2) of subsection 1 of section 701.043 shall not apply to lots located in subdivisions under the jurisdiction of the department of natural resources which are required by a consent decree, in effect on or before May 15, 1984, to have class 1, National Sanitation Federation (NSF) aerated sewage disposal systems.

Minimum Absorption Area

Percolation Rate (minutes/inches)	Absorption Loading Area (sq. ft./Bedroom)	Loading Rate (gal./Sq. Ft)*
< 10 **	150	1.0
11-30	200	0.8
31-45	265	0.45
46-60***	300	0.4
61-120*** Æ	600	0.2

* Gallons of sewage tank effluent per day per square foot of trench bottom.

**Soils with percolation rates of one to ten minutes per inch (1-10 min/in) or less shall either be evaluated for severe geological limitations by a registered geologist or a soil morphology examination shall be required.

***Note: When percolation rate is greater than forty-five minutes per inch (45 min/in), backfill above infiltration barrier shall be sand, loamy sand or sandy loam, when available. Two to four inches (2-3") of loamy soil shall be used to cap the sandy backfill. This is to keep rainwater from entering the system.

Æ Must be designed and approved by a Missouri registered engineer.

