

LINN COUNTY ENVIRONMENTAL HEALTH PROGRAM

PO BOX 100 | 315 SW 4TH AVE | ALBANY, OR 97321
PHONE (541) 967-3821 | LinnEH@linncountyhealth.org
www.linncountyhealth.org/eh



FACT SHEET: SITE EVALUATION/MAJOR REPAIR/MAJOR ALTERATION

APPLICATION TYPE

- **Site Evaluation** (New site development): A site and soils evaluation to determine the suitability for an on-site septic system.
- **Repair Permit:** Repair or replacement of a failing drainfield or treatment unit
- **Alteration Permit:** Expand or change the location of a drainfield or treatment unit

APPLICATION INSTRUCTIONS

A complete application must be submitted to this office. Incomplete or inaccurate information may delay the application process. A complete application must contain the following:

- A signed and complete application form. All fields are required. If signed by an agent, the agent must submit a "Notice Authorizing Representative" form with the application.
- A detailed plot plan showing the proposed development and/or changes to the property. Scaled plot plan can be created at <https://www.linncountyhealth.org/eh/page/septic-systems> or you can contact our office for maps of your property.
- Your application **must** indicate when the test pits will be ready for inspection. ***If test pits have not been provided when the sanitarian arrives and the work must be rescheduled, a re-inspection fee may be charged.***
- Applications can be submitted online (preferred) at BuildingPermits.Oregon.gov or in office.
- Application fees can be found at linncountyhealth.org/eh/page/onsite-fees
- In the event that an application is incomplete and additional action by or information from the applicant is required for completion, we will close the file one year after the application date and the application fee will be forfeit. A new application and fee will be required to re-activate the file.

TEST PIT PREPARATION

A minimum of **2 test pits** are required in the proposed drainfield area. Look for a logical spot on the property for a disposal system. Explore the desired area and if possible avoid placing test pits in the following areas:

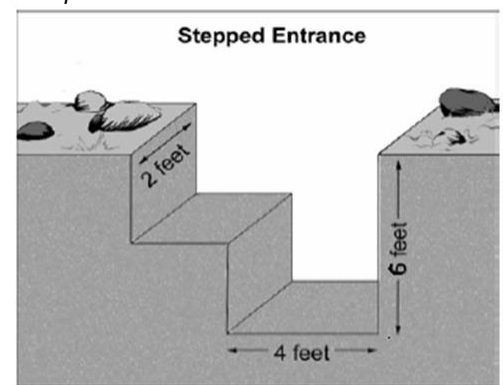
- On a steep slope (more than 45%).
- Within 50 feet upslope of sharp slope changes, escarpments, or cuts.
- In swale areas, drainages, or where surface water is likely to collect.
- Where soil is saturated for extended periods during the winter months.
- Within 100 feet of springs and proposed or existing wells.
- Within 50 feet of intermittent streams or irrigation ditches.
- Within 50 feet (100 feet is preferable) of rivers, lakes, or streams (measure from the high bank).
- Within 10 feet of property lines or easements.
- Within 10 feet of foundations of existing or proposed buildings.
- Any area used or proposed to be used for roadway, driveway, or

TEST PIT CONSTRUCTION

Each pit must be 2' wide, 4' long, and 6' deep.

Pits must be constructed in a manner that will allow the sanitarian to get in and out of them.

Example:



Please refer to the "Preserve Your Suitable Disposal Areas: Know Your Setbacks" fact sheet for a detailed list of all required setbacks.

parking.

- Any area that has been filled or has had soil removed.

To ensure timely completion of your site evaluation, the following requirements for test pits must be met:

- Pits should be separated by a distance of 75' to 100'. Mark the test pits with the flagging ribbon provided by the department. If the test pits cannot be seen from the road, provide a well-marked trail to follow.
- If the sanitarian finds that the soils are unsuitable, new test pits may be dug and will be evaluated without additional fees within ninety (90) days after the applicant is notified of the situation.
- Occasionally, the sanitarian may require additional test pits before the site evaluation report is issued. For example, if two test pits are vastly different and there are no surface features that explain the difference, more pits may be needed to make sure that the approval is located in the more suitable area.
- On large acreage, or for multiple sites, an appointment may be arranged so that the sanitarian can meet with a backhoe operator on the property.

PROCESS

Site Evaluation:

- Once we have received the completed application and the test pits have been dug, we will make a field visit to assess soil and site conditions. We will then issue you a technical report (***this is not a permit***) that includes the specifications for the system, and a scaled plot plan that shows the area approved for installation of the system.
- Installation of the system will require a Construction/Installation Permit. The permit application packet can be found at <https://www.linncountyhealth.org/eh/page/septic-systems>

Major Alteration/Repair:

- Once we have received the completed application and the test pits have been dug, we will make a field visit to assess soil and site conditions. We will then issue you a technical report (***this is not a permit***) that includes the specifications for the system, and a scaled plot plan that shows the area approved for installation of the system.
- Stake out the system and components, then complete and submit the pre-construction plans. This will include the Application System Plan, Elevation Profile, and the On-Site System Material List. Include a tank schematic with float switch settings if pumping is required (the manufacturer of the tank you selected can provide this to you). Additional information may be required if your system is a Sand Filter, Alternative Treatment System or Pressurized Distribution system. All forms, stakeout guides and permit plan checklists can be found at <https://www.linncountyhealth.org/eh/page/septic-systems>
- We will then review the plans and, if necessary, visit the stakeout. If all the information is complete and correct, we will issue the permit to install the system.

LAND USE COMPATIBILITY STATEMENT

A favorable Land Use Compatibility Statement (LUCs) must be received before we can issue or sign off on any permit. Upon receipt, your application will be forwarded to the local Planning Authority for completion of the LUCs. If the LUCs is not approved, or otherwise not favorable, you will be notified prior to us proceeding with your application. Once notified, you may choose to withdraw your application and request a refund, or ask that we place your application on hold until any conditions are met.

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PH: (541) 967-3821 | LinnEH@linncountyhealth.org

OFFICE USE ONLY

DATE RECEIVED:

RECEIVED BY:

TRANSFER TO/FROM:

RECORD #:

APPLICATION FOR ON-SITE SEWAGE DISPOSAL

OWNER INFO	Owner Name:		Phone:		
	Owner Email:				
	Mailing Address:		City:	ST: Zip:	
APPLICANT INFO	Applicant is: <input type="checkbox"/> Owner <input type="checkbox"/> Authorized Representative (authorization attached)				
	Applicant Name:		Phone:		
	Applicant Email:				
	Mailing Address:		City:	ST: Zip:	
PROPERTY DESCRIPTION	Township:	Range:	Section:	Tax Lot #:	Acres:
	Site Address (include road):				
	City:	Oregon	Zip:	Parcel #:	
	Directions to Property:				
	Water Supply: <input type="checkbox"/> Existing Private Well/Spring <input type="checkbox"/> Proposed Private Well/Spring <input type="checkbox"/> Public Water System				
	Will the size of the property change? <input type="checkbox"/> No <input type="checkbox"/> Yes - Proposed Lot Size:				
APPLICATION TYPE	COMPLETE ONLY ONE APPLICATION TYPE SECTION BELOW				
	PERMIT REQUEST		AUTHORIZATION <input type="checkbox"/> Record Review <input type="checkbox"/> Field Visit		
	<input type="checkbox"/> Construction Permit (New Site Development)		<input type="checkbox"/> Remodel (added bedrooms) <input type="checkbox"/> Replacement Dwelling		
	<input type="checkbox"/> Repair: <input type="checkbox"/> Minor (tank only) <input type="checkbox"/> Major (tank/drainfield)		<input type="checkbox"/> # of Bedrooms Existing: _____		
	<input type="checkbox"/> Alteration: <input type="checkbox"/> Minor (tank only) <input type="checkbox"/> Major (tank/drainfield)		<input type="checkbox"/> # of Bedrooms Proposed: _____		
	<input type="checkbox"/> Renew/Transfer Permit #: _____		<input type="checkbox"/> Personal Hardship/Temporary Housing		
	<input type="checkbox"/> Single Family Dwelling - Number of bedrooms: _____		<input type="checkbox"/> # of Bedrooms Proposed: _____		
	<input type="checkbox"/> Accessory Dwelling Unit - Number of bedrooms: _____		<input type="checkbox"/> Change of Use (describe in detail in proposal below)		
	<input type="checkbox"/> Commercial: _____		<input type="checkbox"/> Accessory Dwelling Unit		
	Max # of Employees: _____ Max # of Patrons: _____		<input type="checkbox"/> # of Bedrooms Proposed: _____		
<input type="checkbox"/> Showers <input type="checkbox"/> Food Preparation <input type="checkbox"/> Other: _____		<input type="checkbox"/> Other _____			
<input type="checkbox"/> Licensed Installer (name): _____		System Currently in Use? <input type="checkbox"/> Yes <input type="checkbox"/> No (date of last use): _____			
License #: _____					
<input type="checkbox"/> Owner Install					
SITE EVALUATION (New Lot Development)		PLANNING REVIEW			
<input type="checkbox"/> Single Family Dwelling - Number of bedrooms: _____		<input type="checkbox"/> Proposed Partition			
<input type="checkbox"/> Accessory Dwelling Unit - Number of bedrooms: _____		<input type="checkbox"/> Proposed Property Line Adjustment			
<input type="checkbox"/> Commercial: _____		<input type="checkbox"/> Proposed Lot size: _____			
Max # of Employees: _____ Max # of Patrons: _____					
<input type="checkbox"/> Showers <input type="checkbox"/> Food Preparation <input type="checkbox"/> Other: _____					
<input type="checkbox"/> Amend Report - Record #: _____					
PROPOSAL	Description of work to be completed:				
SITE VISIT	When will the site be ready for inspection? (Major Repair, Major Alteration, Authorization Field Visit, Site Evaluation, Planning Review)				
	<input type="checkbox"/> Ready on ___/___/___ <input type="checkbox"/> Will contact Env. Health when ready Contact <input type="checkbox"/> Owner <input type="checkbox"/> Applicant to schedule				
SIGNATURE	I understand that this site must be prepared according to instruction in the guidance packet before action will be taken on this application. By my signature, I certify that all information provided on this application and the accompanying plot plan or system plan is correct; and I hereby grant the Linn County permission to enter onto the above-described property for the purpose of this application.				
	Owner Signature:		Date:		
	Applicant Signature:		Date:		



State of Oregon Department of Environmental Quality

Notice Authorizing Representative



I, _____, have authorized _____
(Property Owner/Print Name) (Authorized Representative/Print Name)

to act as my agent in performing the activities necessary to obtain all onsite wastewater treatment program services provided by the Department of Environmental Quality on the property described below in accordance with OAR chapter 340, division 071. I agree that any costs not satisfied by the Authorized Representative are my responsibility and I authorized DEQ agents to conduct required business activities on said property.

Property identification:

(Property Situs or Road Address)

And described in the records of: _____ County as:

Township _____ Range _____ Section _____ Map ID _____ Tax Lot #(s) _____

Property owner:

Printed Name: _____

Address: _____

City, State, Zip: _____

Phone: _____ Email: _____

Signature: _____

Authorized representative:

Printed Name: _____

Address: _____

City, State, Zip: _____

Phone: _____ Email: _____

Signature: _____



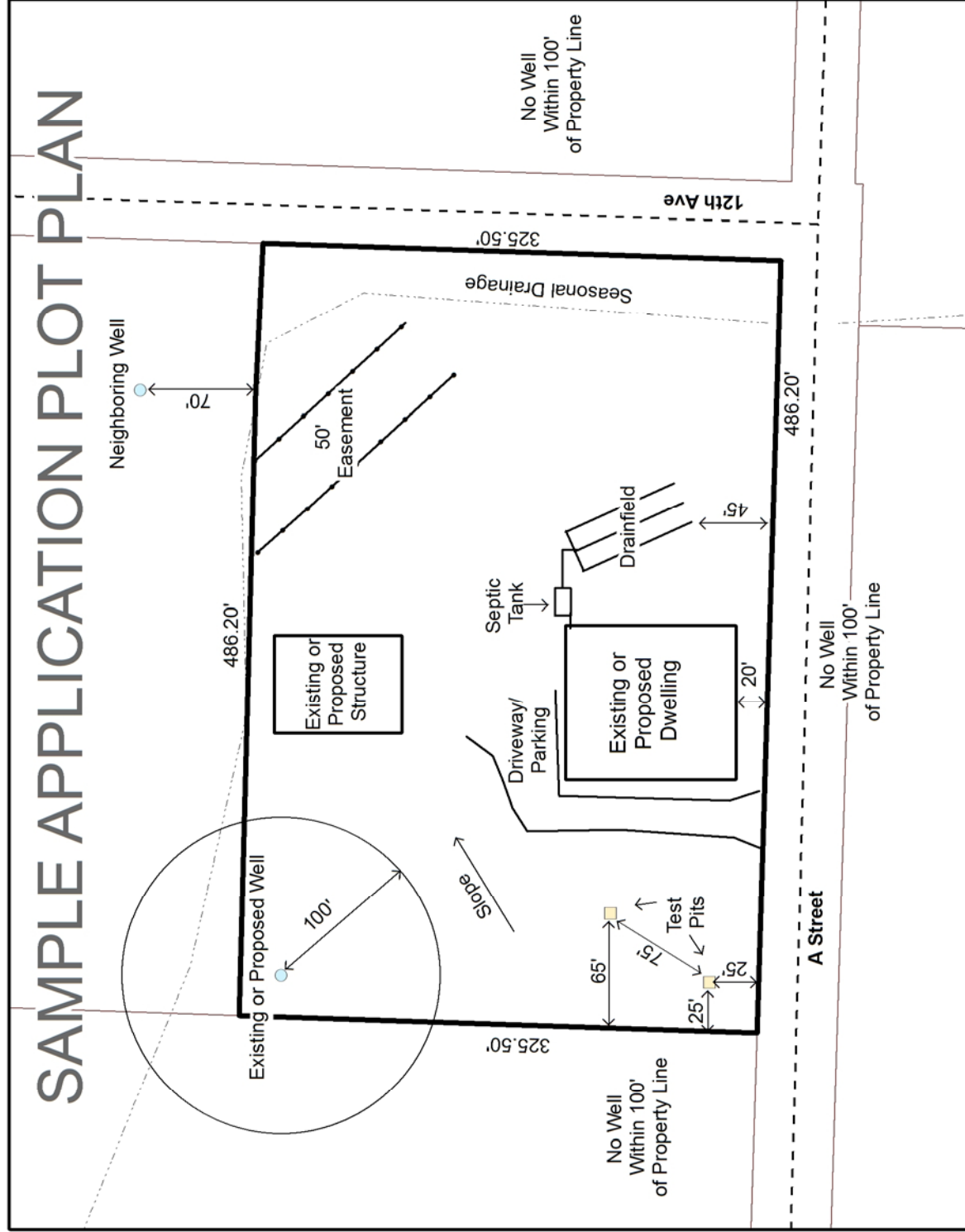
Linn County Department of Health Services
Environmental Health Program

Phone (541) 967-3821
Fax (541) 926-2060

Property ID: 00S00W000 00000
Record Number: 00000
Date Produced: 1/11/2008

REQUIRED PLOT PLAN INFORMATION

- Owner Name
- Legal Description/Map #
- North arrow
- Property dimensions
- Neighboring wells/waterlines (w/in 100' of property line)
- All wells/waterlines on property
- Roads, driveways, parking areas
- Buildings and fences
- Septic tanks and drainfields
- Areas of excavation (cuts, fills)
- Easements, deed restrictions, etc.
- Lakes, springs, streams, ditches, etc.
- Neighboring water bodies (w/in 100' of property line)
- Field drainage tiles (French drain, etc)
- Test Pits (w/ distance to property lines)
- Direction of slope



By my signature I certify that the information provided on this plot plan is complete and accurate.

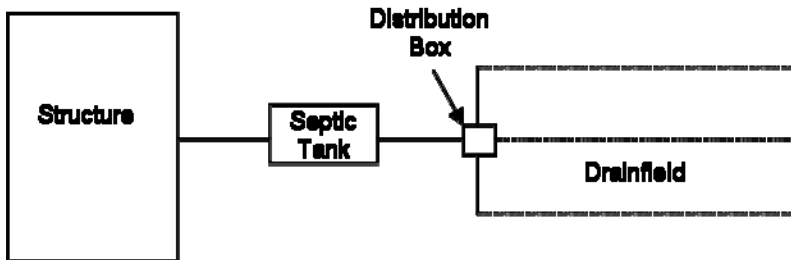
1 inch equals 100 feet

Applicant's Signature

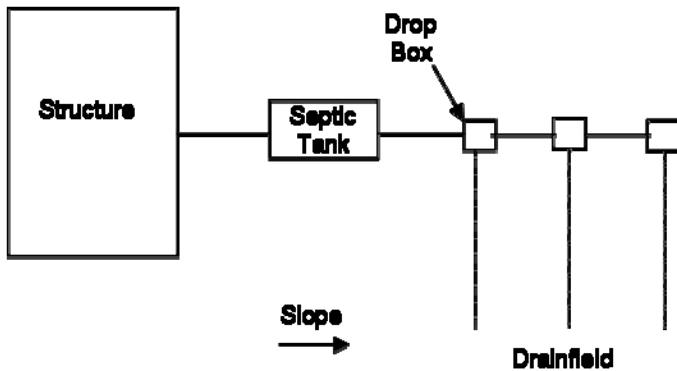
Date _____

COMMON DRAINFIELD LAYOUTS

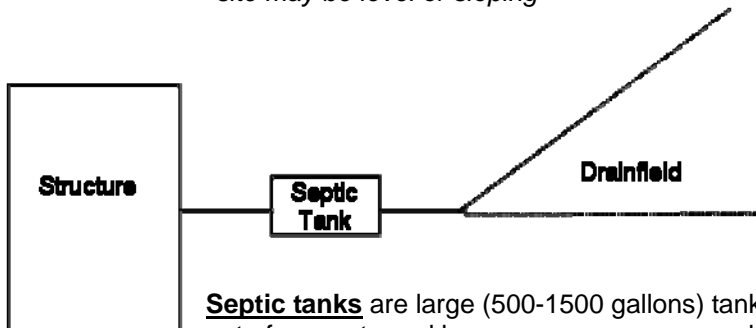
1. Septic tank, distribution box, drainfield
* generally used on level ground



2. Septic tank, drop boxes, drainfield
* generally used on sloping ground



3. Septic tank, drainfield
* generally older systems
* site may be level or sloping



Septic tanks are large (500-1500 gallons) tanks that settle out and store solids. They are typically made out of concrete and have one or more access holes (about 2 feet across) for inspection and cleaning.

Septic tanks may also be made out of fiberglass, polyethylene (plastic) or older tanks may be made out of steel. Steel tanks may be round and have an access lid as large as the tank diameter (5' across or more). Polyethylene tanks have smaller access holes, like a concrete tank. Typically, effluent moves out of the septic tank and into the drainfield by gravity. If the drainfield is higher than the septic tank, the septic tank will have a pump. Pumps require occasional checking, cleaning, and replacement.

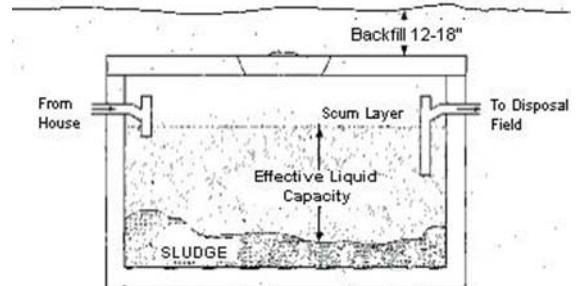
Distribution boxes and **Drop boxes** are small concrete or polyethylene vaults which distribute effluent from the septic tank into the drainfield lines.

The **drainfield** is a network of newer plastic chambers, or, pipes or tiles surrounded by gravel that allow effluent to seep into the soil. The size of the drainfield depends on the texture and effective depth of the soil.

Locating your septic tank: Septic tanks are usually located fairly close to the house (5' is the minimum distance from foundations). Likely areas are near the kitchen or bathroom plumbing. The top of the tank is usually 0-2 feet below the ground surface. The Environmental Health Department may have a record of your septic tank location. Records are unlikely for systems put in before 1974. Most septic tank pumpers will locate the tank and expose the lid for you for a fee.

The Septic Tank

The function of the tank is to allow separation of the solids from the raw sewage so that the remaining liquid (effluent) can be absorbed into the soil without clogging the soil. The heavier solid particles in the sewage settle to the bottom of the tank, forming a layer of sludge. Lighter materials, including fats and grease, float to the surface, forming a scum layer. Bacteria called anaerobes, living in the septic tank without oxygen, slowly digest up to 50 percent of the solids, converting them into gases and liquids, and thereby reducing sludge build up.



As the tank fills with sludge and grease, **efficiency of treatment decreases**. It must be **periodically removed by pumping out the septic tank contents**, which will be discussed in a later section.

Preserve Your Suitable Disposal Areas: KNOW YOUR SETBACKS

A site evaluation is the first step in the process of obtaining a construction permit for an on-site sewage disposal system. For alteration and repair permits, we often waive the fee, formality and some of the restrictions of the site evaluation. Nevertheless, we also delineate an "approved disposal area" for every on-site permit. Two separate areas may be designated for the initial and replacement systems, or a single large disposal area may be designated for both. Sometimes site and soil conditions necessitate the approval of two different types of systems for the initial and replacement areas. Alteration and repair permits may or may not have a designated replacement area.

An on-site sewage disposal system should effectively do two things: Treat and dispose of septic tank effluent. It's obvious when the disposal part isn't working, and we want to make sure the treatment part works to avoid ground water pollution. An approved disposal area, for either the initial or replacement system, may not be altered in any way that will impact the installation or the proper functioning of a disposal system. A system must be installed in native, unaltered soil. Severe soil or site alteration may render an area unsuitable for sewage disposal and void any previous site approvals. The two major problems we find are soil disturbances and setback issues.

Oregon Administrative Rule 340-71-220(e) states that a site is only suitable for sewage disposal if it "... has not been filled or the soil has not been modified in a way that would, in the opinion of the Agent, adversely affect functioning of the system." Decisions about sites that have been disturbed must be made at the site and on a case-by-case basis. To avoid problems, do not cut, level or fill the approved area. Felling trees and pulling up stumps with big, heavy tractors on clayey soils in the winter rain is a recipe for voiding your approval. Laying a driveway through the middle of your approved area will usually void your approval. **Before making any changes to the approved area, call us for consultation at (541) 967-3821.**

Table 1 of Oregon Administrative Rule 340-71 lists all the necessary setbacks and is found on the other side of this form. We designate approved areas based on the information supplied on the plot plan with the application. If a feature that requires a setback, such as a neighbor's well, is not disclosed on the plot plan, the required setback may later invalidate the approval. Any changes to the site, such as drilling a new well, must adhere to the required setbacks or the approval may be voided. Different setbacks apply to different site and soil conditions. **If the setbacks that pertain to your site are unclear, call us for a consultation at (541) 967-3821, before making any changes near the approved area.**

The following are some general setbacks. They are by no means all the setbacks that apply to your site.

<u>Setbacks from:</u>	<u>Approved disposal area</u>	<u>Tanks, sand filter, effluent line etc.</u>
Wells (on or adjacent to property)	100'	50'
Year round water bodies	100'	50'
Seasonal water bodies	50'	50'
Downslope cuts	50'	25'
Water lines	10'	10'
Building foundations	10'	5'
Underground utilities	10'	
Property lines	10'	5'

See the back side of this page for complete list.

Table 1
OAR 340-071-0220

MINIMUM SEPARATION DISTANCES

Items Requiring Setbacks	From Sewage Disposal Area, Including Replacement Area	From Septic Tank and Other Treatment Units, Effluent Sewer and Distribution Units
1. Groundwater Supplies	100'	50'
2. Temporarily Abandoned Wells	100'	50'
3. Springs: ● Upgradient ● Downgradient	50' 100'	50' 50'
4. Surface Public Waters: * ● Year Round ● Seasonal	100' 50'	50' 50'
5. Intermittent Streams: ● Piped (watertight not less than 25' from any part of the on-site system) ● Unpiped	20' 50'	20' 50'
6. Groundwater Interceptors: ● On a slope of 3% or less ● On slope greater than 3% ○ Upgradient ○ Downgradient	20' 10' 50'	10' 5' 10'
7. Irrigation Canals: ● Lined (watertight canal) ● Unlined: ○ Upgradient ○ Downgradient	25' 25' 50'	25' 25' 50'
8. Cuts Manmade in Excess of 30 inches (top of downslope cut): ● Which intersect layers that limit effective soil depth within 48 inches of surface ● Which do not intersect layers that limit effective soil depth	50' 25'	25' 10'
9. Escarpments: ● Which intersect layers that limit effective soil depth ● Which do not intersect layers that limit effective soil depth	50' 25'	10' 10'
10. Property Lines	10'	5'
11. Water Lines	10'	10'
12. Foundation Lines of any Building, Including Garages and Out Buildings	10'	5'
13. Underground Utilities	10'	--

*This does not prevent stream crossing of pressure effluent sewer.