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Public Health
Environmental Health Services

APPLICATION FOR ONSITE WASTE WATER REVIEW

NAME:_____ DATE: _____

CURRENT ADDRESS:_____ CITY:_____ STATE:_____ZIP:_____

HOME PHONE:_____ CELL PHONE:_____

EMAIL ADDRESS:_____

SUBDIVISION NAME:_____ # OF LOTS:_____ _____

DEVELOPER NAME:_____

DEVELOPER ADDRESS:_____

SITE LOCATION (ADDRESS IF AVAILABLE):_____

WATER SOURCE:
PUBLIC_____ NAME OF PUBLIC WATER PROVIDER:_____
PRIVATE_____ TYPE OF PRIVATE WATER:_____

PROPERTY MAP REQUIREMENTS:
A Property map, drawn to scale, showing the following, as applicable:

1. Building – maximum number of bedrooms _____ employees (if commercial)_____
2. Water Service Line
3. Well location (or proposed location)
4. Property lines within 10 feet of well or sewer system
5. Septic tank location (or proposed location)
6. Absorption system
7. All water courses
8. Soil and percolation test location
9. Driveways and parking areas
10. Existing trees and ditches
11. Contours at 2 ft intervals (if required)
12. Easement or drainage right of ways affecting the property
13. Lot dimensions: _____Length _____Width

The maximum depth requirement to the top of a septic tank is no more than four feet. This means that homes with basements that are deeper than four feet must:

1. Have no plumbing in the basement; or
2. Have installed an ejector pump to lift the basement waste water up to the septic tank.

OFFICE USE ONLY
Receipt#: _____ Fee Paid: _____ Date:_____
Permit#: _____ Initials:_____

Percolation Test Instructions

1. Percolation tests shall not be conducted in test holes which extend into groundwater, bedrock or frozen ground. Where a fissured soil formation is encountered, tests shall be made under the direction of the health authority.
2. Two or more percolation tests shall be made in separate test holes spaced at least 50 feet apart, preferably 80 to 100 feet apart in the area of the proposed drain field. These holes will be next to ten foot deep holes. The purpose of the ten foot holes is to: A) determine if there is a water table and how deep it is; B) determine if there an impermeable layer (usually heavy clay, Mancos shale, or hard rock and how deep it is; C) determine soil type(s) and its depth(s).
3. Test holes shall be dug or bored and shall have horizontal dimensions ranging from 5 to 12 inches. The vertical sides shall be at least 12 inches deep, terminating in the soil where the bottom of the new drain field is to be dug.
4. Carefully roughen the sides and bottoms of the hole in order to remove any smeared soil surfaces. If available, add 2-3 inches of clean gravel at the bottom of the hole.

   Sandy Soils:

   For tests in sandy soils, the hole shall be carefully filled with water to a minimum depth of 10 inches over the gravel or 12 inches without gravel and allowed to drain away. The procedure shall be repeated two or more times. NOTE: If the water from the second filling seeps away in 10 minutes or less, the test may proceed immediately as follows:

   i) Place a stick across the hole and from a fixed reference point on it, measure and record the water level drop every 10 minutes until the readings stabilize and two readings are the same. You may have to refill the hole with water.
   ii) The final water level drop per 60 minutes will be used to calculate the percolation rate.

   Other Soils:

   The hole shall be carefully filled with clear water and a minimum depth of 10 inches of water shall be maintained over the 2 inches of gravel. If no gravel is added to the percolation hole, the hole will be filled with 12 inches of water and maintained for at least a 5 hour period by refilling the hole whenever necessary. Water remaining in the hole after 5 hours shall not be removed. Immediately following the saturation period the soil shall be allowed to rest not less than 12 hours or more than 24 hours. Immediately following the soil swelling period the percolation rate measurements shall be made as follows:

   i) The water level shall be adjusted to 10 inches over the gravel if there are 2 inches of gravel or 12 inches of water without gravel.
   ii) Place a stick across the hole and from a fixed reference point on it, measure and record the water level drop every 30 minutes until the readings stabilize and two readings are the same.
   iii) The drop that occurs during the final measurement period shall be used in calculating the percolation rate.

   The slowest percolation rate shall be used in calculating the required absorption area. The percolation rate is calculated by the following equation [time interval/inches water level dropped].

Record Sheet for Conducting Soil Percolation Tests
Utah Division of Water Quality

Name of Project or Development: _____ Test Date: ___/____/_____

Location of Property: _____

Name of Person Performing Test: _____ Percolation Test # _____

1. Total depth of test hole: _____
2. Hole width (inches): _____
3. Depth of water table: _____
4. Period of time hole was saturated (hours): _____
5. Time soil was permitted to swell (hours): _____
6. Time interval used for measuring water drop: _____

Successive Percolation Tests	Beginning Time	Initial Depth to Water	Ending Time	Final Depth to Water	Amount of water drop (inches)	Elapsed time (minutes)	Percolation Rate (min/inch)
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

Final Stabilized Percolation Rate: _____ minutes/inch

Descriptive log of soil exploration hole #_____ (needs to be at least 10 feet deep)

Thickness of each stratum **Description and texture**

Surface to _____ ft _____

_____ to _____ ft _____

_____ to _____ ft _____

_____ to _____ ft _____

_____ to _____ ft _____

Record Sheet for Conducting Soil Percolation Tests
Utah Division of Water Quality

Name of Project or Development: _____ Test Date: ___/____/_____

Location of Property: _____

Name of Person Performing Test: _____ Percolation Test # _____

1. Total depth of test hole: _____
2. Hole width (inches): _____
3. Depth of water table: _____
4. Period of time hole was saturated (hours): _____
5. Time soil was permitted to swell (hours): _____
6. Time interval used for measuring water drop: _____

Successive Percolation Tests	Beginning Time	Initial Depth to Water	Ending Time	Final Depth to Water	Amount of water drop (inches)	Elapsed time (minutes)	Percolation Rate (min/inch)
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

Final Stabilized Percolation Rate: _____ minutes/inch

Descriptive log of soil exploration hole #_____ (needs to be at least 10 feet deep)

Thickness of each stratum **Description and texture**

Surface to _____ ft _____

_____ to _____ ft _____

_____ to _____ ft _____

_____ to _____ ft _____

_____ to _____ ft _____

Percolation Test Certificate and Soil Exploration Results

Information required for determining soil suitability for individual wastewater disposal systems

Name (please print): _____

Location of Property: _____

I certify that percolation tests have been conducted on the above property, in accordance with requirements specified by R317-511, Utah Administrative Code, and that percolation rates, calculated as specified by said rule, are as follows: (use reverse side or additional sheets if necessary)

Test Hole #	Test Hole Depth	Saturation Period (hrs & min)	Swelling Period (hrs & min)	Inches of water drop final 30 min period*	Final Satbilized percolation rate** (min/inch)
1					
2					
3					
4					

Statement of soil conditions obtained from soil explorations to a depth of at least 10 feet. In the event that primary absorption will occur deeper than 6 feet, soil explorations must extend to a depth of at least 4 feet below the bottom of the proposed absorption field, seepage trench, seepage pit, or absorption bed. A descriptive log of <u>each</u> exploration hole shall be given.

Date soil exploration(s) conducted: ____/_____/_____

Statement of present and maximum anticipated ground water table throughout the property and throughout the area of the proposed absorption system: _____

Date ground water table determined: _____/_____/_____

I hereby certify to the best of my knowledge, the information here is correct.

Name: _____

Street: _____

City: _____ State: _____ Zipcode: _____

Signed: _____ Date: ____/____/_____

(**unsigned test certificates will not be accepted**)

***** Ten minute time intervals between percolation test measurements may be used <u>only</u> for certain circumstances - refer to detailed instructions about conducting percolation tests referenced above. If a 10 minute time interval is used for tests, so indicate

****** Percolation rate is equal to period of time used (minutes), divided by distance water dropped (inches and fractions thereof)