



**SITE INVESTIGATION AND PERCOLATION  
TEST REPORT FOR ONLOT DISPOSAL OF SEWAGE**

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE SIDE

Application No. \_\_\_\_\_ Municipality Orange Township County Potato

Site Location Crabapple Drive, Lot 1 Subdivision Name Tom and Kate Brown

SUITABLE Soil Type ChB Slope 2-4% Depth to Limiting Zone 73" Ave. Perc. Rate 70.7

UNSUITABLE  Mottling  Seeps or Poned Water  Bedrock  Fractures  Coarse Fragments

Perc. Rate  Slope  Unstabilized Fill  Floodplain  Other \_\_\_\_\_

**SOILS DESCRIPTION: Probe "B"**

Soils Description Completed by: Samuel Johnson Date: 7/30/10

Inches	Description of Horizon
<u>0</u> TO <u>8</u>	<u>Dark yellowish brown silt loam; moderate granular structure; friable</u>
<u>8</u> TO <u>20</u>	<u>Strong brown silty clay loam; moderate subangular blocky structure; friable</u>
<u>20</u> TO <u>54</u>	<u>Yellowish red silty clay; moderate subangular blocky structure; friable; 5% rock fragments</u>
<u>54</u> TO <u>73</u>	<u>Yellowish red silty clay; moderate subangular blocky structure; firm; 10% rock fragments</u>
<u>73</u> TO <u>80</u>	<u>Thick, flaggy shale</u>
_____ TO _____	_____

**PERCOLATION TEST:**

Percolation Test Completed by: Samuel Johnson Date: 7/31/10

Weather Conditions:  Below 40°F  40°F or above  Dry  Rain, Sleet, Snow (last 24 hours)

Soil Conditions:  Wet  Dry  Frozen

Hole No.	***		Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7: Inches of drop	Reading No. 8: Inches of drop
	Yes	No									
1	X		<u>10/30</u>	<u>2 3/4</u>	<u>2 1/2</u>	<u>2 1/2</u>	<u>2 3/8</u>	<u>2 3/8</u>			
2	X		<u>10/30</u>	<u>2</u>	<u>2</u>	<u>1 3/4</u>	<u>2</u>				
3	X		<u>10/30</u>	<u>4 3/4</u>	<u>4 5/8</u>	<u>4 5/8</u>	<u>4 1/2</u>				
4	X		<u>10/30</u>	<u>3/8</u>	<u>1/4</u>	<u>1/4</u>	<u>1/4</u>				
5	X		<u>10/30</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>				
6	X		<u>10/30</u>	<u>1 3/4</u>	<u>1 3/4</u>	<u>1 1/4</u>	<u>1</u>	<u>1</u>	<u>1</u>		

\*\*\*Water remaining in the hole at the end of the final 30-minute presoak? Yes, use 30-minute interval; No, use 10-minute interval.

**Calculation of Average Percolation Rate:**

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
<u>1</u>	<u>2 3/8</u> "	<u>12.6</u>	<u>25</u> "
<u>2</u>	<u>2</u> "	<u>15.0</u>	<u>25</u> "
<u>3</u>	<u>4 1/2</u> "	<u>6.7</u>	<u>25</u> "
<u>4</u>	<u>1/4</u> "	<u>120.0</u>	<u>25</u> "
<u>5</u>	<u>0</u> "	<u>240.0</u>	<u>25</u> "
<u>6</u>	<u>1</u> "	<u>30.0</u>	<u>25</u> "
TOTAL OF MIN / IN →		<u>424.3</u>	= <u>70.7</u>
TOTAL NO. OF HOLES →		<u>6</u>	

The information provided is the true and correct result of tests conducted by me, performed under my personal supervision, or verified in a manner approved by DEP.

(S) \_\_\_\_\_  
Sewage Enforcement Officer

White - Local Agency

Yellow - Applicant

Pink - Local DEP Office

## GENERAL INSTRUCTIONS:

This form is to be utilized to record the results of site testing for installation of an onlot system. The first section of this form provides general site information, location and a summary of the observed site conditions. Based on the conditions present, the SEO should check the appropriate suitability block in this section. The type of limiting zone must be noted, such as "mottling, " "bedrock, " etc.

## SOILS DESCRIPTION:

The name of the individual providing the soils description must be provided, as well as the date of the evaluation. Describe the soil profile by horizons. For each horizon, indicate the depth from the mineral soil surface at which the horizon begins and ends. Indicate the presence and depth of any water seeps or standing water; also describe texture; structure; percentage of coarse fragments; color; indication of mottling; bedrock; masses of loose fragments or gravel or fractures or solution channels, all of which could allow unrestricted downward movement of effluent without treatment; any other appropriate information.

Beside the soils description, indicate the depth to limiting zone in inches; if no limiting zone was observed in the excavation, indicate that the limiting zone was greater than the depth of the probe. For example: more than 84".

## PERCOLATION TEST:

The name of the individual conducting the test and the date of the test must be provided. The general conditions under which the test was completed should be indicated by checking the appropriate blocks.

Preparation and initial presoak of the percolation holes must precede the actual test by 8-24 hours. Immediately before conducting the test, two 30-minute presoak periods must be completed. After listing the hole number under the appropriate column, an "X" or checkmark should be placed under the "YES" or "NO" column indicating presence or absence of water in the hole at the end of the final presoak period. Based on that information, the interval between readings should be circled.

The percolation test must be continued in each hole for eight consecutive readings, OR until stabilization occurs. This means that the percolation test may continue in some of the holes throughout eight readings while testing may be discontinued in other holes if stabilization occurs in that particular hole. It is also possible that the interval between readings may differ from one hole to another based on the results of the presoak. Stabilization is defined as "the difference of one-fourth inch or less of drop between the highest and lowest readings of four consecutive readings" in one particular percolation hole.

Upon completion of the percolation test, the final reading of each hole should be recorded in the calculation section and then converted to minutes per inch.

$\Delta$  LZ = 35"  
∴ 225 min/in

$\Delta$  LZ = 28"  
∴ 2.1 min/in

$\Delta$  LZ = 10"

Additional information pertaining to the proper procedures for site investigation and the conduction of a percolation test may be found in Chapter 73, Section 73.12, 73.14, and 73.15.

One copy of this form should be attached to the applicant's copy of the application, one to the sewage enforcement officer's copy, and one to DEP's copy.