

PERCOLATION TEST RESULTS

Site Location:

Hillside
Erbistock
Wrexham
LL13 0DW

Date of tests: 24th September 2024

Weather: Overcast but no rain prior or during tests. External temperature 14°C.
Previous days of heavy rain resulted in wet ground conditions.

Please see below results from percolation tests undertaken.

3 separate test holes were provided on site to the following dimensions: 300mm x 300mm x 300mm deep. Three separate tests were undertaken. Those test results are recorded below.



Test 1:

The water level took 1hr 40 minutes to fall between markers set at 75% full and 25% full. Converted into seconds for the purposes of the calculation we are left with the figure of 6000.

$$6000/150.$$

$$VP = 40$$

Test 2:

The water level took 1hr 25minutes to fall between markers set at 75% full and 25% full. Converted into seconds for the purposes of the calculation we are left with the figure of 5100.

The VP is then calculated by dividing the time by 150 in test 1 case 5100/150.

$$VP = 34$$

Test 3:

The water level took 1hr 41minutes to fall between markers set at 75% full and 25% full. Converted into seconds for the purposes of the calculation we are left with the figure of 6060.

$$6060/150$$

$$VP = 40.4 \text{ (percolation value)}$$

Calculating and average over the 3 test results adding all VP's together and dividing by 3.

$$40 + 34 + 40.4 = 114.4$$

$$114.4 / 3 = 38.13 = \text{Average VP}$$

The above information provides evidence that a drainage field will disperse the clear water outfall from the treatment plant effectively.