



Daniel & Danielle Jones  
12 Intown Drive  
Downtown, ME 00000

RE: Well Flow Recovery Testing  
21 Wayout Lane  
Somewhere, ME 00000

Report xxxxx

Dear Dan & Danny

At your request, we inspected the well at the above address today to determine if the recovery rate was adequate for this home. The rate at which water flows into the well (the recovery rate) will determine how much water can be withdrawn from the well daily. A typical household utilizes about 90 gallons per bedroom per day for basic sanitary purposes (e.g., toilets, showers and baths, laundry, dishwashing, etc.). This standard is based on two people per bedroom, each using 45 gallons per day.

Therefore, the well for this three bedroom home should be able to supply 270 gallons per day to meet the internal sanitary needs of this home. Ideally, this amount should be recovered by the well within a four hour period to meet peak usage times for most households during the morning and evening hours. This does not include external uses such as watering the garden or washing cars. While faucets are open, the water system should be able to provide at least 3 gallons per minute at a reasonable pressure.

As the well pump delivers water to a home, the depth of water in the well is lowered and ground water begins to flow into the well. While the pump is shut off, ground water continues to flow into the well raising the water level. The change in the water level in the well is then plotted on a graph by the computer. The rate at which water rises within the well is then used to calculate the recovery rate in gallons per minute. The plot for this test is included in this report.

The recovery rate during this inspection was calculated to be 3.3 gallons per minute or 195 gallons per hour. Based on the observed recovery rate, the daily internal sanitary demand of 270 gallons for six people can be recovered by this well in 1.4 hours.

The recovery rate is more than sufficient for the basic sanitary needs. This will allow a surplus for watering the lawn, washing the car, etc.

During the flow test, the system was able to sustain a flow rate of more than the minimum of 3 gallons per minute. The maximum water system pressure was 50 PSI and the minimum pressure was 30 PSI.

The bottom of this well was reported to be [300] feet. Each foot of water in a 6 inch well contains 1.47 gallons. Before starting the flow test, the surface of the water was [32] feet below the top of the well. Total storage within this well at the time of inspection was 438 gallons. The usable portion of this storage

amount is limited by the depth at which the pump is placed. This storage may help supply extra water during heavier periods of water usage.

The conclusions of this inspection were based upon the environmental conditions prevailing at the time of the testing. At any given time the recovery rate may change depending on such things as fluctuations in precipitation, other demands on the aquifer, atmospheric pressure, seismic activity, local blasting, etc.

If you have any questions concerning this inspection, please call me at 800-244-9876 or 207-883-9876.

Very Truly Yours

Hugh P Savage

ASHI Certified Inspector #4963

