

## Notice of Aquifer Test

Date

Owner's Name

Address

City, State and Zip Code

**Re: Aquifer Testing for Block \_\_, Lots \_\_\_\_  
\_\_\_\_\_  
Kingwood Township  
Hunterdon County, New Jersey**

Dear \_\_\_\_\_,

Aquifer testing for proposed groundwater withdrawals of up to \_\_\_\_\_ gallons per day from Block \_\_, Lots \_\_\_\_, has been tentatively scheduled for the week of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_ new wells are/will be located on Block \_\_, Lots \_\_\_\_, the Lot in Question. The purpose of the wells is \_\_\_\_\_. One of these wells will be pumped and the remaining \_\_\_\_ wells will be monitored to determine aquifer coefficients and interference effects as per Sections 153-29 of the Kingwood Township Well Ordinance. All aquifer test activities will be conducted in accordance with this Ordinance.

Your property is located within 2500 feet of a boundary of the Lot in question, and, in accordance with the Kingwood Township Well Ordinance, you are hereby notified of the pending aquifer test. Based on Kingwood Township Well Ordinance, you may request that the water level in your well be monitored during the aquifer test. Please respond within seven (7) days via certified mail should you choose to have your well monitored.

If your well is monitored, the water-level measurements will be used to directly determine water-level drawdown interference effects from the proposed new wells and/or increased groundwater withdrawals on your well. If your well is not monitored, then the applicant's hydrogeologist and the Township's appointed hydrogeologist will calculate potential water-level drawdown interference effects on your well from the data obtained from other wells observed during the test, however such calculation will only be a hypothetical calculation.

If you would like to participate in the monitoring of water levels during the aquifer test, please sign and return the enclosed Access Agreement form. The Access Agreement

form should be returned to Kingwood Township Board of Health, P.O. Box 199, Baptistown, New Jersey, on or before \_\_\_\_\_, 20\_\_\_. In addition, please include copies of all well construction details and a geologic log that you may have for your well. Based on the level of response to this request and the well details/geologic log, not all well owners that request monitoring may be included in the test. The Township's Well Ordinance requires that the developer select the minimum number of test wells as per Table 3:

*Table 3: Number of Test Wells Required.*

<b>Number of Lots</b>	<b>Number of Test Wells*</b>
2	1 pumping well and 1 observation well.
3 to 5	2 on-site test wells, for pumping and observation. Minimum of 1, up to 3 off-site existing observation wells.***
6 to 15	4 on-site test wells, for pumping and observation. Minimum of 3, up to 5 off-site existing observation wells.***
16 to 49	6 on-site test wells, for pumping and observation. Minimum of 5, up to 7 off-site existing observation wells.***
≥50**	6 on-site test wells, for pumping and observation. Minimum of 7, up to 10 off-site existing observation wells.***

However, if any of the property owners requesting monitoring have wells that are supported with public records to have been completed to a depth less than 100 feet, these wells must also be monitored in addition to the requirements for observation wells in Table 3.

If your well is selected for monitoring during the aquifer test, the applicant's hydrogeologist will conduct the following activities on your well:

1. Collect a pre-test water sample from a tap such as at your kitchen sink. The water sample will be analyzed for the presence/absence of bacteria in your well water.
2. Remove the top of your well to gain access. All equipment placed into your well for the test will be cleaned with a disinfectant to prevent the introduction of bacteria into your well.
3. Install access tubing (dip tube) into the well, if necessary, to prevent the accidental entanglement of measuring equipment with pump discharge piping and pump wiring.
4. Install a pressure transducer with a data logging device in the dip tube. This instrumentation will be used to measure water level changes in your well and will be installed at least 24-hours before the start of pumping.
5. Install a temporary cover over your well to prevent rainwater or foreign matter entering your well.

6. Periodically check your well, during the aquifer test, to directly measure water levels with an electronic measuring device or to download data from the pressure transducer.
7. Remove the pressure transducer and dip tube installed in your well for the aquifer test.
8. Add sufficient chlorine to your well to disinfect your well prior to replacing and securing the cap on your well. The water in your house should be run at all taps to ensure adequate disinfection of the entire water supply system. After chlorine is noted at each tap, an outside tap can be used to further pump the well and dissipate the chlorine. The addition of chlorine will most likely result in a chlorine odor for one or more days.
9. Collect a post-test sample from the tap sampled prior to the test and analyze the sample for the presence/absence of bacteria.

If you require additional information regarding the aquifer test, please contact Diane Laudenbach, Board of Health Secretary, Mondays, Wednesdays and Fridays between the hours of 9:00 AM and 3:00 PM at 908-996-3696 x 226.

Sincerely,