Capacity Development Program – Two-Part Pump Test Form for New Non-Transient Non-Community Public Water Systems

Date of Pump Test: _____

NOTE: Both pump tests must be performed during one continuous testing session.

Part I - Peak Demand Pump Test Requirements

Peak Water Demand/Pumping Rate:

Calculate Average Daily Demand (ADD) in accordance with NJAC 7:10-12.6(b) =	_ gpd
Divided by 1440min/day (or appropriate operational timeframe) = gpm x 3 =	

Peak Water Flow Rate (Maximum water flow rate through fixtures):

Determine # of fixtures ______ @ 3gpm per fixture = _____ gpm

Peak Demand Time (Length of peak use period in minutes):

Peak Water Demand (gal)=gal=minutesPeak Water Flow Rate (gpm)gpm

The well must be pumped at a minimum of _____ gpm (peak demand pumping rate) for _____ minutes (peak demand time) to demonstrate the ability to meet peak water demands.

Part II - Constant Head Pump Test Requirements

Calculate ADD Pumping Rate: _____gpd/1440min/day = _____gpm

Note: The well pumping capacity must meet or <u>exceed</u> the average daily demand pumping rate at a constant head condition to demonstrate the ability to meet the average daily demand.

The well must be pumped **at a minimum** of ______ gpm (average demand pumping rate) until a constant head condition is established to demonstrate the ability to meet average daily water demands.

Note: The Constant Head Pump Test can be performed at <u>higher pumping rates</u> to demonstrate a better well yield as long as a constant head condition can be established.

- Constant Head Condition exists when the pumping rate is held steady and the water level changes at a rate of less than 6 inches (0.5 ft.) per hour (minimum of two consecutive hours).
- A record of well yield (flow rate) and drawdown must be made at ¹/₂ hour intervals during the test.
- A record of water levels during the recovery period must also be made.
- Recovery Period: well recovers to at least 90% of static water level (prior to test) within 24 hours.

BSDW-PA 20 CD-PT Form 7/21/10