



NEWARK WATERSHED CONSERVATION AND DEVELOPMENT CORPORATION

40 CLINTON STREET, FOURTH FLOOR • NEWARK, NEW JERSEY 07102

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Newark Watershed Conservation and Development Corporation

NJDEP Water Allocation Permit # 5123 Compliance of Temperature & Flow Requirements

Standard Operating Procedure

Oak Ridge Reservoir downstream – river water temperature requirement

From May 1 until October 31: Seasonal Average: 68°F or 20°C
Maximum Daily Average 74°F or 23.3°C.

1. Subscribe to USGS Water Alert for the Oak Ridge gauge
01382210. <http://water.usgs.gov/wateralert/>
2. Open the fish valves full at Oak Ridge gate house from April 30 until November 1.
3. Establish an action water temperature of 72°F or 22.2°C.
4. Each day from April 30th until November 1st, check the Oak Ridge Reservoir pool elevation. If the reservoir is below the spillway, do nothing. If the reservoir is spilling or is predicted to spill, do the following:
 - a. Monitor USGS gauge at Oak Ridge daily between 12:00 Noon and 2:00 PM. If the water temperature is 72 degrees or above, increase the bottom release.
 - b. Weekends: On Friday at 12 noon, make a release assessment for the weekend. If Oak Ridge Reservoir is spilling or is predicted to spill, and the weather forecast for air temperature is forecasted to be above 80°F increase the bottom release. Monitor USGS gauge Saturday and Sunday to ensure temperature compliance and make additional release if necessary.
 - c. Monitor the temperature 1 hour after releasing more water to ensure that water temperature is dropping. If temperature continues to rise, make additional release.

Charlottesburg Reservoir release – Macopin Flow

Maintain minimum 5.0 cfs flow at Macopin. Keep the 30-inch blow off open at Charlottesburg and maintain a minimum flow of 5.5 cfs. If the water level is low in Charlottesburg reservoir, do not let the flow go above 7.0 cfs at Macopin.