



US Army Corps
of Engineers
Wilmington District

Philpott Lake Water Supply Reallocation Study

- **Henry County Public Service Authority (HCPSA) seeking water supply reallocation from Philpott Lake**
- **Reallocation study underway to determine impacts to the authorized project purposes**
- **Study to complete in FY 2023**



CONGRESSIONAL DISTRICT: VA 5, 9

DATE: 01 APRIL 2022

1. **PROJECT NAME AND STATE:** Philpott Lake, Virginia, Water Supply Reallocation Study
2. **LOCATION AND DESCRIPTION:** Philpott Dam is located on the Smith River, crossing the border between Henry and Franklin Counties in Virginia. The authorized project provides for a concrete gravity dam 920 feet long with a maximum height of 220 feet above the streambed, with a lake that stretches 15 miles upstream of the dam on the Smith River extending into portions of Henry, Patrick and Franklin Counties. Philpott Lake is operated as a unit of a coordinated reservoir system for flood risk management in the Roanoke River basin, generation of hydroelectric power, regulation of river flow, and public recreation. Water supply and environmental stewardship are additional purposes. The powerhouse has a total installed capacity of 14,000 kilowatts. There are currently no water supply storage allocations from Philpott Lake.
3. **ISSUE AND OTHER INFORMATION:** The Henry County Public Service Authority (HCPSA) provides potable water to residential, commercial, and industrial users in Henry County and nearby residential areas of Patrick and Pittsylvania Counties. Treated water for delivery to customers is produced at the Authority's Upper Smith River Water Filtration Plant (WFP), also referred to as the Philpott Water Filtration Plant (WFP). HCPSA does not have a water storage allocation from Philpott Lake.

The raw water treated at the WFP is withdrawn from the Smith River in accordance with the provisions of a 401 Certification (Number 82-0957) issued by the Virginia State Water Control Board in 1983. The WFP intake is in the Smith River approximately 3 river miles downstream of Philpott Dam and immediately upstream of the confluence of Town Creek with the Smith River

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The WFP withdrawal permitted by the State is currently 6.0 million of gallons per day (MGD). This 401 Certification does not restrict the withdrawal rate if the daily total does not exceed 4.0 MGD. It does require a reduction in the withdrawal rate and the total daily withdrawal if the Smith River flows fall below 20 cubic feet per second (or 13 MGD) at the USGS Philpott Gage (02072000) located approximately 700 feet downstream of the Philpott Reservoir dam. The Smith River flow requirements incorporated into the Water Control Plan and Reservoir Regulation Manual for Philpott Lake were established by the U.S. Environmental Protection Agency. These requirements include maintenance of minimum river flows at Stanley town, Fieldale and Martinsville, VA, which were established to provide sufficient flows to support water withdrawals, wastewater discharges, and other uses in these downstream communities.

HCPSA has requested a water supply storage reallocation at Philpott Lake. Currently, HCPSA's preferred alternative is an additional 4 MGD release from Philpott Lake to satisfy near-term water needs and long-term future water needs.

4. **CURRENT STATUS:** The Corps has initiated a reallocation study to evaluate proposed changes by HCPSA in water supply storage and identify potential impacts to other authorized purposes of this project. The draft report is scheduled to be released this summer.
5. **FEDERAL FUNDING ALLOCATION THRU FY2022:** \$980,000.
6. **FY 2023 BUDGET AMOUNT:** \$0. Remaining funds will be used to complete the reallocation study, and coordinate with project sponsors; therefore, funds are not requested for FY 2023.