

Application Type Renewal
Facility Type Pesticides
Permit Type Individual

**NPDES PERMIT FACT SHEET
PESTICIDES**

Application No. PA0065374
APS ID 781805
Authorization ID 1385994

Applicant and Facility Information

Applicant Name	<u>Pennsylvania American Water</u>	Facility Name	<u>PA American Water - Nesbitt Reservoir</u>
Applicant Address	<u>83 Aston Mountain Road</u> <u>Pittston, PA 18640</u>	Facility Address	<u>Route 502</u> <u>Springbrook Twp, PA</u>
Applicant Contact	<u>Emery Yurko</u>	Facility Contact	<u>Ronald Temple</u>
Applicant Phone	<u>(570) 237-7374</u>	Facility Phone	<u>(570) 457-1550 x1</u>
Client ID	<u>87712</u>	Site ID	<u>446349</u>
SIC Code	<u>0782</u>	Municipality	<u>Spring Brook Township</u>
SIC Description	<u>Agriculture - Pesticide</u>	County	<u>Lackawanna</u>
Date Application Received	<u>February 2, 2022</u>	WQM Required	<u>No</u>
Date Application Accepted	<u>February 2, 2022</u>	EPA Waived	<u>No</u>
Purpose of Application	<u>Renewal of NPDES permit.</u>		

Internal Review and Recommendations

The applicant is requesting renewal of a NPDES individual permit for a discharge from the application of pesticides to control algae in Nesbitt Reservoir. The reservoir is located on Spring Brook, which is a High-Quality Cold Water & Migratory Fish (HQ-CWF, MF) receiving water in State Water Plan Basin 5-A (Lackawanna River). Per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than the designated use.

The application contains a Pesticide Discharge Management Plan (PDMP) documenting the proper application of Copper Sulfate Crystal at the PFBC recommended dose of 0.68 lbs of product per acre foot of water which will be applied to 58 acres at a depth of 10 feet. Nesbitt Reservoir's total area is 116 acres with an average depth of 34 feet.

The application proposed to use the following pesticide and application rate for these target species:

Treatment Area (No.)	Name	Manufacturer (& EPA Reg. #)	Max. Annual Dose	Units	Target
1	Copper Sulfate Crystals	Old Bridge Chemicals, Inc. (46923-4)	394 lbs/treatment x's 10 treatments =3,940 lbs.	0.68 lbs. per acre foot	Algae species: Cyclotella, Asterionella, Melosira, Synedra, Ankistrodesmus, Coelosphaera, Diatoms, Dinobryon, Tabellaria, Peridinium, Phacus, Scenedmus, Staurastrum

The reservoir is used as a public water supply. The permittee has an emergency PWS intake on the Spring Brook Reservoir approximately 4.3 miles downstream of the Nesbitt reservoir. The applicant is the regional water company and no other PWS is located within 5 miles downstream.

Approve	Deny	Signatures	Date
X		<i>Brian Burden</i> Brian Burden, E.I.T. / Project Manager	August 25, 2022
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager	9-21-22

Internal Review and Recommendations

Old Bridge Chemicals, Inc. Copper Sulfate is registered with the EPA for lake algicide treatment with Reg. # 46923-4. Copper Sulfate is exempt in the Federal register under Sec. 180.1021 Copper; exemption from the requirement of a tolerance. (a) (1) Copper Sulfate as an algicide or herbicide in irrigation conveyance systems and lakes, ponds, reservoirs, or bodies of water in which fish or shellfish are cultivated. The dosage rates remain the same as the previous permit.

The Department received the permittee's Joint Chapter 91.38 PFBC permit application, dated February 22, 2022.

Antidegradation: Based on an evaluation of previous non-discharge alternatives proposed, non-discharge alternatives are not feasible. The applicant proposes use of appropriate pesticides for the purpose of eliminating algae with minimum effects to non-targeted species and application at the lowest effective dose. These factors will minimize short-term impacts on water quality. EPA has previously evaluated the registered pesticide(s) in accordance with FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) for usage as Aquatic Pesticide(s), taking into account human health and ecological risk assessment, and determined that usage following the most recent pesticide label was protective. Therefore, the requirements of §93.4a and §93.4c (b)(1)(i) are satisfied.

The most feasible and cost-effective management option currently available is the continued application of the EPA approved algicide treatment chemical Copper Sulfate. Potential residual impacts from Copper Sulfate application are minimized by applying the chemical under the established treatment control criteria and approval requirements of the PA Fish and Boat Commission and chemical manufacturer labeling requirements. The treatment area is adequately identified and the applicant is the regional water company.

The Existing Permit expires on 07/31/2022 and the application for permit renewal was submitted in a timely manner.

The EPA waiver is not in effect.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.