pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
FISH AND BOAT COMMISSION

JOINT PERMIT FOR USE OF AN ALGICIDE, HERBICIDE OR FISH CONTROL CHEMICAL IN WATERS OF THE COMMONWEALTH

PERMIT NO.: 0913956 A-1

In compliance with the provisions of Pennsylvania's Clean Streams Law, as amended, 35 P.S. §§ 691.1 *et seq*., the regulations at 25 Pa. Code § 91.38, and the Fish and Boat Code, 30 Pa. C.S. § 2504(a)(1),

Villages Of Shadybrook HOA
274 Shady Brook Dr.
Langhorne, PA 19047

is authorized to use the algicide(s), herbicide(s) or fish control chemical(s) ("pesticides") specified below, in accordance with the conditions and requirements set forth herein.

THIS PERMIT SHALL BECOME EFFECTIVE ON OCTOBER 15, 2026

Municipality: Middletown Township **County:** Bucks
Water Body: Pond 1 **Total Area:** 0.175 acres
Receiving Stream: UNT Core Creek **Avg Depth:** 4 feet

TREATMENT INFORMATION					
Chemical	**Maximum Dose**	**Treatment Area**	**Treatment Depth**	**Amount Each Treatment**	**No. Annual Treatments**
Captain XTR	3.0 gal/af	0.175 acre	4 feet	2.1 gal	4
Tribune	2 gal/acre	0.175 acre	4 feet	0.35 gals	4
Aquaneat	32 oz/acre	0.175 acre	4 feet	5.6 oz	4
Aquathol K	1.3 gal/af	0.175 acre	4 feet	0.91 gal	1
Clearcast	128 oz/acre	0.175 acre	4 feet	22.4 oz	1
Propeller	1.1 lbs./af	0.175 acre	4 feet	0.77 lbs.	6
SeClear G	5 gal/af	0.175 acre	4 feet	3.5 gal	4
Sonar One	90 ppb	0.175 acre	4 feet	3.4 lbs.	1
Renovate 3	128 oz/acre	0.175 acre	4 feet	22.4 oz	4

Municipality: Middletown Township **County:** Bucks
Water Body: Pond 2 **Total Area:** 0.75 acres
Receiving Stream: UNT Core Creek **Avg Depth:** 4 feet

TREATMENT INFORMATION					
Chemical	**Maximum Dose**	**Treatment Area**	**Treatment Depth**	**Amount Each Treatment**	**No. Annual Treatments**
Captain XTR	3.0 gal/af	0.75 acre	4 feet	9 gal	4
Tribune	2 gal/acre	0.75 acre	4 feet	1.5 gals	4
Aquaneat	32 oz/acre	0.75 acre	4 feet	24 oz	4

Aquathol K	1.3 gal/af	0.75 acre	4 feet	3.9 gal	1
Clearcast	128 oz/acre	0.75 acre	4 feet	96 oz	1
Propeller	1.1 lbs./af	0.75 acre	4 feet	3.3 lbs.	6
SeClear G	5 gal/af	0.75 acre	4 feet	15 gal	4
Sonar One	90 ppb	0.75 acre	4 feet	14.58 lbs.	1
Renovate 3	128 oz/acre	0.75 acre	4 feet	96 oz	4

Municipality: Middletown Township **County:** Bucks
Water Body: Pond 3 **Total Area:** 0.6 acres
Receiving Stream: UNT Core Creek **Avg Depth:** 4 feet

TREATMENT INFORMATION					
Chemical	**Maximum Dose**	**Treatment Area**	**Treatment Depth**	**Amount Each Treatment**	**No. Annual Treatments**
Captain XTR	3.0 gal/af	0.6 acre	4 feet	7.2 gal	4
Tribune	2 gal/acre	0.6 acre	4 feet	1.2 gals	4
Aquaneat	32 oz/acre	0.6 acre	4 feet	19.2 oz	4
Aquathol K	1.3 gal/af	0.6 acre	4 feet	3.12 gal	1
Clearcast	128 oz/acre	0.6 acre	4 feet	76.8 oz	1
Propeller	1.1 lbs./af	0.6 acre	4 feet	2.64 lbs.	6
SeClear G	5 gal/af	0.6 acre	4 feet	12 gal	4
Sonar One	90 ppb	0.6 acre	4 feet	11.6 lbs.	1
Renovate 3	128 oz/acre	0.6 acre	4 feet	76.8 oz	4

Municipality: Middletown Township **County:** Bucks
Water Body: Pond 4 **Total Area:** 0.7 acres
Receiving Stream: UNT Core Creek **Avg Depth:** 4 feet

TREATMENT INFORMATION					
Chemical	**Maximum Dose**	**Treatment Area**	**Treatment Depth**	**Amount Each Treatment**	**No. Annual Treatments**
Captain XTR	3.0 gal/af	0.7 acre	4 feet	8.4 gal	4
Tribune	2 gal/acre	0.7 acre	4 feet	1.4 gals	4
Aquaneat	32 oz/acre	0.7 acre	4 feet	22.4 oz	4
Aquathol K	1.3 gal/af	0.7 acre	4 feet	3.64 gal	1
Clearcast	128 oz/acre	0.7 acre	4 feet	89.6 oz	1
Propeller	1.1 lbs./af	0.7 acre	4 feet	3.08 lbs.	6
SeClear G	5 gal/af	0.7 acre	4 feet	14 gal	4
Sonar One	90 ppb	0.7 acre	4 feet	136 lbs.	1
Renovate 3	128 oz/acre	0.7 acre	4 feet	89.6 oz	4

Municipality:	Middletown Township	**County:**	Bucks	
Water Body:	Pond 5	**Total Area:**	0.7	acres
Receiving Stream:	UNT Core Creek	**Avg Depth:**	4	feet

TREATMENT INFORMATION					
Chemical	**Maximum Dose**	**Treatment Area**	**Treatment Depth**	**Amount Each Treatment**	**No. Annual Treatments**
Captain XTR	3.0 gal/af	0.7 acre	4 feet	8.4 gal	4
Tribune	2 gal/acre	0.7 acre	4 feet	1.4 gals	4
Aquaneat	32 oz/acre	0.7 acre	4 feet	22.4 oz	4
Aquathol K	1.3 gal/af	0.7 acre	4 feet	3.64 gal	1
Clearcast	128 oz/acre	0.7 acre	4 feet	89.6 oz	1
Propeller	1.1 lbs./af	0.7 acre	4 feet	3.08 lbs.	6
SeClear G	5 gal/af	0.7 acre	4 feet	14 gal	4
Sonar One	90 ppb	0.7 acre	4 feet	136 lbs.	1
Renovate 3	128 oz/acre	0.7 acre	4 feet	89.6 oz	4

THIS PERMIT IS ISSUED UNDER THE FOLLOWING CONDITIONS:

1. The permittee shall use pesticides strictly as described by the product label. Chemical applications shall be performed in accordance with the manufacturer's label directions, existing pesticide use laws, and any conditions imposed by local or state agencies.

2. The permittee may treat a standing body of water (i.e., pond, lake, reservoir, etc.) only when there is minimal or no outflow occurring or expected.

3. The permittee shall not treat Fish and Boat Commission approved stocked trout waters between February 15 and June 1.

4. The permittee shall not treat bass waters during the first week of the Commonwealth inland waters harvest season for bass (the second Saturday in June through the following Saturday).

5. If copper sulfate will be used, the permittee shall not apply copper sulfate at a dose exceeding 0.5 mg/L Cu^{2+} or 1.36 lbs $CuSO_4$/acre-foot where the total hardness of the water body is less than 50 mg/L $CaCO_3$. Where total hardness exceeds 50 mg/L $CaCO_3$, the permittee shall not exceed a dose of 1.0 mg/L Cu^{2+} or 2.72 lbs $CuSO_4$/acre-foot.

6. The permittee shall not treat water bodies containing stocked or wild trout with copper in excess of 0.1 mg/L Cu^{2+}.

7. The permittee shall treat water bodies containing very high plant densities separately, in sections, to prevent suffocation of fish. Monitoring of dissolved oxygen is recommended under these conditions.

8. The permittee is responsible for all damages to aquatic life and human health resulting from treatment.

9. Failure of the permittee or agents acting on behalf of the permittee to follow the approved specifications, conditions and requirements immediately renders this permit null and void.

10. If applicable, treatments must also comply with the terms and conditions of NPDES permit coverage.

11. The permittee shall comply with pesticide licensing requirements established by the Pennsylvania Department of Agriculture for the applications approved under this permit.

12. This permit is valid for the treatment information identified above. The permittee shall submit a new application to amend this permit if any of the following changes are proposed:

a. Changes to the water bodies being treated.

b. Increases in the maximum dose or to the number of annual treatments for any water body.

c. Changes in the pesticide(s) used for treatment, unless the new pesticide(s) contain the same active ingredient(s) and the same or lower percent composition of the ingredient in comparison to the pesticide(s) previously approved by DEP/PFBC.

APPROVALS		
For the Pennsylvania Fish and Boat Commission:		
Heather Gahagan	Division Chief	10/02/2026
Heather A. Gahagan	Title	Date
Additional Requirements:		
For the Department of Environmental Protection:		
/s/	Environmental Program Manager	10/14/2026
Elizabeth A. Mahoney	Title	Date
Additional Requirements:		