



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

PERMIT NO.: 1516840

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),

**Longwood Gardens Inc.
PO Box 501
Kennett Square, PA 19348-0501**

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 AUGUST 15, 2022

THIS PERMIT SHALL EXPIRE AT MIDNIGHT ON AUGUST 14, 2027

Municipality: East Marlborough Township **County:** Chester
Water Body: Small Lake **Total Area:** 0.75 acres
Receiving Stream: UNT Pocopson Creek **Avg Depth:** 4 feet

TREATMENT INFORMATION					
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Green Clean Pro	90 gal/acre	0.75 acres	4 feet	120 gal	8
Citrine Plus	2.4 gal/acre	0.75 acres	4 feet	7.2 gal	8
Rodeo	0.75 gal/acre	0.75 acres	4 feet	0.56 gal	8

Water Body: Abbondi Basin **Total Area:** 0.7 acres
Receiving Stream: UNT East Branch Red Clay Creek **Avg Depth:** 6 feet

TREATMENT INFORMATION					
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Vastlan	6 qt/acre	0.7 acres	1 feet	0.5 gal	2
Rodeo	3 gal/acre	0.7 acres	1 feet	0.25 gal	2

Water Body: Big Abbondi Wetland **Total Area:** 4.3 acres
Receiving Stream: UNT East Branch Red Clay Creek **Avg Depth:** 12 feet

TREATMENT INFORMATION					
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Vastlan	6 qt/acre	4.3 acres	1 feet	3.2 gal	2
Rodeo	3 gal/acre	4.3 acres	1 feet	1.6 gal	2

Water Body: Gun Club Riparian Forest **Total Area:** 3 acres
Receiving Stream: UNT East Branch Red Clay Creek **Avg Depth:** 1 feet

TREATMENT INFORMATION					
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Vastlan	6 qt/acre	3 acres	1 feet	2.25 gal	2
Rodeo	3 gal/acre	3 acres	1 feet	1.13 gal	2

Municipality: East Marlborough Township **County:** Chester
Water Body: Hamorton Wetland **Total Area:** 1.4 acres
Receiving Stream: UNT Pocopson Creek **Avg Depth:** 5 feet

TREATMENT INFORMATION					
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Vastlan	6 qt/acre	1.4 acres	1 feet	1 gal	2
Rodeo	3 gal/acre	1.4 acres	1 feet	0.5 gal	2

Municipality: East Marlborough Township **County:** Chester
Water Body: Hourglass Lake **Total Area:** 1.4 acres
Receiving Stream: UNT Pocopson Creek **Avg Depth:** 12 feet

TREATMENT INFORMATION					
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Vastlan	6 qt/acre	1.4 acres	1 feet	1 gal	2
Rodeo	3 gal/acre	1.4 acres	1 feet	0.5 gal	2

Municipality: East Marlborough Township **County:** Chester
Water Body: Minner Lane Basin **Total Area:** 1 acres
Receiving Stream: UNT Pocopson Creek **Avg Depth:** 8 feet

TREATMENT INFORMATION					
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Vastlan	6 qt/acre	1 acres	1 feet	0.75 gal	2
Rodeo	3 gal/acre	1 acres	1 feet	0.375 gal	2

Municipality: East Marlborough Township **County:** Chester
Water Body: Nursery Pond **Total Area:** 2.9 acres
Receiving Stream: UNT East Branch Red Clay Creek **Avg Depth:** 8 feet

TREATMENT INFORMATION					
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Vastlan	6 qt/acre	2.9 acres	1 feet	2.2 gal	2
Rodeo	3 gal/acre	2.9 acres	1 feet	1.1 gal	2

Municipality: East Marlborough Township **County:** Chester
Water Body: Nursery Rain Gardens **Total Area:** 1.4 acres
Receiving Stream: UNT East Branch Red Clay Creek **Avg Depth:** 1 feet

TREATMENT INFORMATION					
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Vastlan	6 qt/acre	1.4 acres	1 feet	1 gal	2
Rodeo	3 gal/acre	1.4 acres	1 feet	0.5 gal	2

Municipality: East Marlborough Township **County:** Chester
Water Body: Red Lion Basin **Total Area:** 1.4 acres
Receiving Stream: UNT Pocopson Creek **Avg Depth:** 1 feet

TREATMENT INFORMATION					
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Vastlan	6 qt/acre	1 acres	1 feet	0.75 gal	2
Rodeo	3 gal/acre	1 acres	1 feet	0.375 gal	2

Municipality: East Marlborough Township **County:** Chester
Water Body: Rt. 1 Basin **Total Area:** 0.5 acres
Receiving Stream: UNT Pocopson Creek **Avg Depth:** 5 feet

TREATMENT INFORMATION					
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Vastlan	6 qt/acre	0.5 acres	1 feet	0.38 gal	2
Rodeo	3 gal/acre	0.5 acres	1 feet	0.19 gal	2

Municipality: East Marlborough Township **County:** Chester
Water Body: Schoolhouse Rd. Central Meadow **Total Area:** 1.7 acres
Receiving Stream: UNT East Branch Red Clay Creek **Avg Depth:** 1 feet

TREATMENT INFORMATION					
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Vastlan	6 qt/acre	1.7 acres	1 feet	1.25 gal	2
Rodeo	3 gal/acre	1.7 acres	1 feet	0.63 gal	2

Municipality: East Marlborough Township **County:** Chester
Water Body: Rt. 926 Basin **Total Area:** 0.7 acres
Receiving Stream: UNT Pocopson Creek **Avg Depth:** 8 feet

TREATMENT INFORMATION					
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Vastlan	6 qt/acre	0.7 acres	1 feet	0.5 gal	2
Rodeo	3 gal/acre	0.7 acres	1 feet	0.25 gal	2

Municipality: East Marlborough Township **County:** Chester
Water Body: Webb Pond One **Total Area:** 1.8 acres
Receiving Stream: UNT Pocopson Creek **Avg Depth:** 12 feet

TREATMENT INFORMATION					
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Vastlan	6 qt/acre	1.8 acres	1 feet	1.35 gal	2
Rodeo	3 gal/acre	1.8 acres	1 feet	0.68 gal	2

Municipality: East Marlborough Township **County:** Chester
Water Body: Webb Pond Two **Total Area:** 2.2 acres
Receiving Stream: UNT Pocopson Creek **Avg Depth:** 12 feet

TREATMENT INFORMATION					
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Vastlan	6 qt/acre	2.2 acres	1 feet	1.65 gal	2
Rodeo	3 gal/acre	2.2 acres	1 feet	0.83 gal	2

Municipality: East Marlborough Township **County:** Chester
Water Body: Wenn Pond Three **Total Area:** 1.7 acres
Receiving Stream: UNT Pocopson Creek **Avg Depth:** 12 feet

TREATMENT INFORMATION					
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Vastlan	6 qt/acre	1.7 acres	1 feet	1.25 gal	2
Rodeo	3 gal/acre	1.7 acres	1 feet	0.63 gal	2

Municipality: East Marlborough Township **County:** Chester
Water Body: Small Abbondi Wetland **Total Area:** 1 acres
Receiving Stream: UNT East Branch Red Clay Creek **Avg Depth:** 5 feet

TREATMENT INFORMATION					
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Vastlan	6 qt/acre	1 acres	1 feet	0.75 gal	2
Rodeo	3 gal/acre	1 acres	1 feet	0.375 gal	2

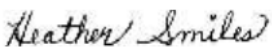
Municipality: East Marlborough Township **County:** Chester
Water Body: Large Lake **Total Area:** 1.5 acres
Receiving Stream: UNT Pocopson Creek **Avg Depth:** 5 feet

TREATMENT INFORMATION					
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Green Clean Pro	90 gal/acre	1.5 acres	5 feet	675 gal	8
Citrine Plus	2.4 gal/acre	1.5 acres	5 feet	18 gal	8

Rodeo	0.75 gal/acre	1.5 acres	5 feet	1.125 gal	8
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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 March 1 and June 15.
4. The permittee shall not treat bass waters during the first week of the Commonwealth inland waters harvest season for bass (the first Saturday after June 11 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 Cu²⁺ or 1.36 lbs CuSO₄/acre-foot where the total hardness of the water body is less than 50 mg/L CaCO₃. Where total hardness exceeds 50 mg/L CaCO₃, the permittee shall not exceed a dose of 1.0 mg/L Cu²⁺ or 2.27 lbs CuSO₄/acre-foot.
6. The permittee shall not treat water bodies containing stocked or wild trout with copper in excess of 0.1 mg/L Cu²⁺.
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:		
	Division Chief	08/09/2022
Heather Smiles	Title	Date
Additional Requirements:		
For the Department of Environmental Protection:		
/s/	Environmental Program Manager	8/10/2022
Thomas L. Magge	Title	Date
Additional Requirements:		

