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# PERMIT TO CONDUCT ULTRA-LOW VOLUME (ULV) TRUCK-MOUNTED ADULTICIDE SPRAYING ON MOSQUITOES

Adulticide Permit No.: **VAAFMM Adulticide 2024-1**

Applicants:

**Otter Creek Watershed Insect Control District  
(OCWICD)  
PO Box 188  
Brandon VT 05733**

Towns permitted for application:

Brandon  
Goshen  
Leicester  
Pittsford  
Proctor  
Salisbury

This Permit is issued to OCWICD beginning \_\_\_\_\_ for a period of seven months and incorporates the below-listed required conditions that OCWICD must follow.



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### Required Permit Conditions

1. All pesticide applications shall be made by certified commercial applicators.
2. All pesticide applicators shall possess at the time of application a valid copy of the labeling for all products applied.
3. All pesticide applications shall be reported to the Vermont Agency of Agriculture, Food & Markets (VAAFMM) upon request and weekly by way of electronic mail to [AGR.Adulticide@vermont.gov](mailto:AGR.Adulticide@vermont.gov) during the application season. Pesticide use shall be recorded and reported using the form provided in Appendix F.2 in the Permit Application dated January 12, 2024 (attached) or the electronic record created by the application tracking software installed by OCWICD. For the purposes of this Permit, a “week” is a seven-day timeframe that begins on a Sunday and ends on a Saturday. The routine operational records are due by close of business on the Monday immediately following the previous week’s application. Should the Monday immediately following the previous week’s application be a State or Federal holiday, then the routine operational records are due by the close of business on Tuesday.
4. Use of the following pesticide products is authorized by this Permit. Application shall be made according to label specifications and limitations, and to Permit conditions.

Product Brand Name	Active Ingredient(s)	EPA Registration Number	Application Rate (active ingredient lbs/acre)	Application Rate (formulation fl oz/minute at 10 mph)
PermaSease 4-4	Permethrin Piperonyl Butoxide	86291-3-96263	0.005 0.005	12.0
PermaSease 3-15	Permethrin Piperonyl Butoxide	86291-4-96263	0.003 0.017	12.0

5. If pesticide resistance to permethrin is documented according to CDC Bottle Bioassay testing per CONUS Manual as <90% of adult females dead at the diagnostic time for the




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species tested, OCWICD may petition VAAFMM to request use of alternate active ingredients. OCWICD shall conduct pesticide resistance monitoring by participating in the Northeast Regional Center for Excellence in Vector-Borne Disease (NEVBD) Resistance Monitoring program and shall provide monitoring results to VAAFMM upon receipt from NEVBD.

6. All applications shall be made in accordance with rates and dilutions included in the Permit application and specified by the original container label or supplemental labeling on or accompanying the product. Only products registered with VAAFMM may be used.
7. A VAAFMM Agricultural Resource Management Specialist will conduct a minimum of three inspections per season, including an initial early season, mid-season, and post-season inspection, that may include, but not be limited to, product inspection, storage areas, application equipment, records, licenses, personal protective equipment, and treated areas. VAAFMM may conduct additional inspections at its discretion and/or in response to complaints.
8. Annual equipment calibration is required prior to each season and prior to first use, both for droplet size and flow rate. Calibration shall be done by a third-party, and a record of the calibration results shall be provided to VAAFMM upon request.
9. Treatment decisions will be based on species counts from surveillance as described in OCWICD's Integrated Pest Management (IPM) Plan submitted with its Permit Application. Route treatments shall only be made when the threshold established in Paragraph 12 is met based on trap data unique to that route for that treatment.
10. Identification and counts of collected adult mosquito specimens shall be conducted and recorded before any application is authorized. Identification will be to genera of biting adult mosquitoes on the day of trap or hand net sweep collection as explained in the IPM Plan provided in the Permit Application (dated January 12, 2024). Specimens shall not be aggregated for identification purposes, but shall be counted and identified by trap or hand net. Identification to species may be conducted later, provided the samples are retained in a manner that will preserve identification characteristics. Mosquito surveillance reports from traps and net sweep collections shall be provided on a weekly basis during the application season in a format usable by VAAFMM via electronic mail to [AGR.Adulticide@vermont.gov](mailto:AGR.Adulticide@vermont.gov). For the purposes of this Permit, a "week" is a seven-day timeframe that begins on a Sunday and ends on a Saturday. The routine operational



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records are due by close of business on the Monday immediately following the previous week's application. Should the Monday immediately following the previous week's application be a State or Federal holiday, then the routine operational records are due by the close of business on Tuesday.

11. If during a spraying operation any person or pet is observed traveling along or within 150 feet of the spray route, including on any property along the route, then the applicator shall immediately turn off the sprayer and any associated pump until the individual or pet leaves the area or the applicator drives past the individual or pet with the sprayer off. The applicator shall make every effort to avoid pesticides coming into direct contact with any human and/or pet.
12. The following action thresholds shall be met or exceeded before any application is authorized under this Permit:
  - (a) (1) 40 or more adult mosquitoes excluding the genera listed in subparagraph (b) obtained from a 24-hour CDC baited light trap collection; *and/or*
    - (2) 15 or more adult mosquitoes excluding the genera listed in subparagraph (b) obtained from a maximum three-minute hand net sweep.
  - (b) Genera excluded from authorized counts include *Uranotaenia*.
  - (c) No insect other than mosquitoes, including biting flies, may be used to justify treatment under this Permit, and counts reported to VAAFPM will include only mosquitoes.
13. Records shall be kept for all service requests. If a service request is satisfied in the course of normal operations by truck-mounted ULV adulticide application along an established spray route, then the service request record will be annotated with the route name and date of application; no separate application report will be required. In all other cases, a service request for truck-mounted ULV adulticide application shall be subject to the same IPM thresholds as route treatments and shall require CDC trap or net sweep counts per the OCWICD's IPM Plan to justify treatment; a separate application report will be required, including date of application, e911 address or latitude/longitude, mosquito counts, ambient conditions, and pesticide amount applied.



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14. OCWICD shall comply with the no-spray zone policy provided in Appendix C-4 of the Permit Application dated January 12, 2024 (attached to this Permit). All drivers shall comply with the following:
  - (a) OCWICD shall avoid spraying a person or pet; and
  - (b) OCWICD shall address the inadvertent loss of stakes along any route.
15. OCWICD shall notify residents as described in Appendix C-1 of its Permit Application dated January 12, 2024, and shall also notify residents along each specific planned spray route as provided in Addendum to Appendix C-1, dated May 16, 2023, and attached to this Permit.
16. OCWICD shall use a variable flow rate pump system with a GPS tracking system on all trucks used for spraying to verify product application rates, amounts, and locations for all adjuvanted applications.
17. The records produced by the GPS tracking system for application amounts and locations, including any tracks or maps that show system on/system off conditions shall be maintained electronically and provided to VAAFAM at the time of inspection or on request.

DocuSigned by:

Anson Tebbetts

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Anson Tebbetts, Secretary  
Vermont Agency of Agriculture, Food & Markets  
116 State St, Montpelier VT 05620



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