

Pesticide Operator Licence

Pursuant to *The Environmental Protection Act SNL 2002 cE-14.2*
and *The Pesticides Control Regulations, 2012*
and subject to the attached stipulations, this licence
is issued to :

Northern Harvest Sea Farms Newfoundland Ltd.

Valid From
July 25, 2013

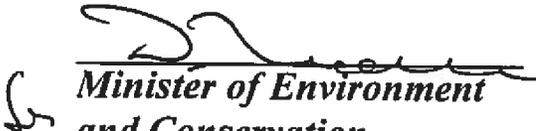
to

July 27, 2018

Valid Categories

Agriculture

Licence No. 13-144



Minister of Environment
and Conservation

Pesticide Operator Licence

Agriculture – Control of Sea Lice in Salmon Aquaculture

Terms and Conditions

Northern Harvest Sea Farms NL Ltd

PESTICIDE OPERATOR LICENCE NO: 13-144

EFFECTIVE DATE: July 25, 2013

EXPIRY DATE: July 27, 2018

Description of Operation

The application of pesticides to water in Newfoundland and Labrador for the purpose of controlling sea lice on salmon.

1. DEFINITIONS

Certified applicator: means a person who has obtained a certificate for applying pesticides, which is recognized by the minister;

**Direct
Veterinarian
Supervision:**

as defined by the Pest Management Regulatory Agency: means that a vet must agree that treatment is necessary and is involved in the determination of how much is needed for treatment;

Inspector: means an Inspector designated under the Environmental Protection Act;

Operations
Supervisor:

means an individual, as an aquaculture area or site manager, who has a valid pesticide applicator licence issued by the Department of Environment and Conservation (DEC);

Pesticides
Control
Section:

staff of the DEC whose responsibility is to ensure compliance with the provincial legislation, as set out under the *Environmental Protection Act SNL 2002 cE-14.2* and *Pesticides Control Regulations, 2012*;

2. LEGISLATION

- (1) For the purpose of this licence, all definitions in the *Environmental Protection Act SNL 2002 cE-14.2* and the *Pesticides Control Regulations, 2012* and regulations under those Acts shall apply.
- (2) All applications shall be conducted in strict compliance with the label registered under the authority of the *Pest Control Products Act* (Canada).

3. AUTHORIZED PRODUCT

- (1) Only the pesticides listed in Appendix A are authorized for use in Newfoundland and Labrador under this Pesticide Operator Licence.

4. CERTIFICATION

- (1) All personnel directly involved in the mixing, loading and/or application of pesticides, must hold a valid Pesticide Applicator Licence in the Agriculture category, with subcategory Sea Lice Control in Salmon Aquaculture.
- (2) Certified pesticide applicators shall only mix, load or apply pesticides after having participated in onsite training (Department of Fisheries and Aquaculture test sites) that is acknowledged by the DEC.

5. PESTICIDE OPERATOR RESPONSIBILITY

- (1) The Operator must ensure that all personnel involved in pesticide applications (including those not holding a pesticide applicator licence) have read and understood the pesticide label before conducting pesticide applications.
- (2) The Operator must ensure that all personnel involved in pesticide applications (including those not holding a pesticide applicator licence) have read and understood

all of the terms and conditions in this Pesticide Operator Licence before conducting pesticide applications.

- (3) Immediately prior to any application, the operations supervisor must review the label specifically discussing the poisoning signs and symptoms and treatment, first aid, personal protective equipment that must be worn, directions and instructions for use.
- (4) Cooperation must be given to any monitoring personnel or inspector of the DEC.
- (5) Following bio-security protocol set out by the Department of Fisheries and Aquaculture, an inspector may, at any reasonable time, enter premises or cage sites and take any samples that are deemed to be necessary to ensure compliance with any term or condition of this licence.
- (6) All applicators shall have their pesticide applicator licence in their possession while applying pesticides unless otherwise indicated by the Pesticides Control Section.
- (7) A copy of these terms and conditions shall be available at each application site during the application of a pesticide.

6. ACCESSIBILITY

- (1) The operator shall ensure that all pesticide application activities are accessible to Pesticides Control Section inspectors.
- (2) If the pesticide application activities are in a remote area, it is the responsibility of the operator to ensure that the inspector can have reasonable access to the site at all appropriate times.

7. PROTECTIVE EQUIPMENT

- (1) The operator shall ensure that all personnel involved in the mixing, loading, and application of pesticides, wear appropriate protective clothing and equipment in accordance with the pesticide manufacturer's product label and/or Material Safety Data Sheet. This is to include, but not be limited to coveralls, gloves and boots impermeable to pesticides and a splash shield (goggles) and half-faced respirator with NIOSH approved pesticide cartridges.
- (2) All personnel handling the nets and the enclosure equipment must wear appropriate protective clothing, boots and gloves (impermeable to pesticides) during applications.
- (3) When using well boats in the application of Interox Paramove 50 (PCP Act Reg.# 29783), all workers/personnel involved in handling, storing, transferring, mixing, loading, applying the concentrate, clean-ups/repair and in activities immediately after application, must wear chemical resistant coveralls (Tyvek or PVC full

chemical splash protective suit) over a long sleeved shirt and long pants, chemical splash proof face shield and chemical resistant boots and gloves.

- (4) When applying to fully tarped sea cages in the application of Interlox Paramove 50 (PCP Act Reg. # 29783), all workers/personnel involved in handling, storing, transferring, mixing, loading, applying the concentrate, clean-ups/repair and in activities immediately after application, must wear NIOSH approved respiratory protection for hydrogen peroxide (H₂O₂) (<http://cdc.gov/niosh/npg/npgd0335.html>), chemical resistant coveralls (Tyvek or PVC full chemical splash protective suit) over a long sleeved shirt and long pants, chemical splash proof face shield (when not wearing full face respiratory protection) and chemical resistant boots and gloves.

8. APPLICATION PROTOCOLS

- (1) All pesticide applications must be under the direct supervision of a veterinarian.
- (2) No treatment may take place unless a veterinarian has prescribed the use of a pesticide for the control of sea lice on caged salmon.
- (3) Only the operations supervisor can obtain and transport pesticides from the Vendor to the point of use. Operations supervisors must remain on the cage site for all treatments.
- (4) Divers that are involved in post treatment activities must wait until all pesticide has dissipated from the surrounding treatment sites prior to emersion into the water.

9. TRANSPORTATION

- (1) Pesticides must be in the original manufacturer's sealed container; packaged in a manner to prevent spillage, and transported in a lock box, secure area or compartment which must be locked while unattended. Eligible pesticides must follow transportation protocols as per the *Transportation of Dangerous Goods Act, 1992 (1992, c. 34)*.
- (2) Pesticides shall not be transported in the passenger compartment of any vehicle.
- (3) Pesticides must be transported and stored separate from foodstuffs, feeds, or other material intended for consumption by humans or animals.
- (4) Special transfer/transportation precautions or warnings that appear on the label of a pesticide package must be strictly adhered to.

10. STORAGE

- (1) A copy of the Pesticide Operator Licence and contingency plan , along with appropriate pesticide product labels and applicable Material Safety Data Sheets (MSDS), must be available at all pesticide storage areas and in all vehicles carrying pesticides.
- (2) All pesticides must be stored in an approved pesticide storage area.
- (3) All pesticide storage sites must meet the requirements of Section 21 of the *Pesticides Control Regulations, 2012* which provides that a storage area shall have:
 - (a) A source of water in an area in or adjacent to the storage area;
 - (b) Approved safety equipment as required which is properly maintained, functional and available at all times for personnel handling and working with pesticides;
 - (c) Flooring which shall not contain a floor drain or catch basin which is directly or indirectly connected to a private or municipal sewage system or public water course;
 - (d) Flooring which shall be capable of being readily cleaned and decontaminated of pesticides stored within;
 - (e) Adequate ventilation by either natural or mechanical means so as to prevent the accumulation of toxic and/or flammable vapours;
 - (f) A “Danger Stored Pesticide” sign posted on all entrances which is printed in block letters 5 centimetres or more in height;
 - (g) Clean-up procedures, materials and equipment available to cleanup spills or leakage;
 - (h) Security procedures consistent with the instructions of the minister or person designated by the minister.
- (4) In addition to the above storage requirements, each pesticide storage site shall have prominently displayed on all entrances contact telephone numbers for:
 - (a) the operator and
 - (b) the Department of Environment and Conservation, Pesticides Control Section, and indicated accordingly (1-800-563-6181).
- (5) All entrances to the storage must be locked when the storage is unattended.
- (6) Pesticides shall be stored in their original container or a substitute container approved by the manufacturer. Substitute containers shall be labelled appropriately.

11. NOTIFICATION

- (1) The Pesticides Control Section must be notified in writing (with the anticipated treatment schedule) a minimum of 72 regular business hours prior to the commencement of a pesticide treatment to any aquaculture cage site.
(Fax: 709 729 6969) (email: pesticidescontrol@gov.nl.ca)

12. REPORTING

- (1) All spills involving greater than 70 litres of mixed pesticide or the equivalent of unmixed formulation, or any quantity which may cause injury or damage to natural environment, to marine, animal or plant life shall be reported immediately to Environment Canada, St. John's (ph.709-772-2083 or 1-800-563-9089) and the Pesticides Control Section, St. John's (ph.1-800-563-6181).
- (2) Records of all incidents (spills) shall be kept on file by the operator.
- (3) Treatment records using the 'Weekly Sea Lice Treatment (Pesticide Application) Report' in **Appendix C** must be forwarded to the Department of Environment and Conservation, Pesticides Control Section within seven (7) days following any treatment. Electronic submissions in Excel spreadsheets will be permitted. Submit to the Pesticides Control Section by email: pesticidescontrol@gov.nl.ca or fax: 709 729 6969.

13. DISPOSAL

- (1) All empty, non-refillable, plastic pesticide containers which have been triple rinsed, cleaned and rendered unusable may be disposed of at an approved waste disposal site. For all other empty containers, proper disposal methods must be strictly adhered to and the staff of the Pesticides Control Section must be contacted prior to disposal. Contaminated material shall be disposed of in accordance with the manufacturer's directions and in consultation with the Pesticides Control Section.

14. REVOCATION

- (1) Failure by a licensed pesticide operator to adhere to the *Environmental Protection Act SNL 2002 cE-14.2*, the *Pesticides Control Regulations, 2012* or the terms and conditions of this licence may result in suspension, revocation or cancellation of this licence and prosecution under the *Environmental Protection Act*.
15. The Department of Environment and Conservation reserves the right to amend the attachments of the terms and conditions of this licence at any time.

March 14, 2013

**APPENDIX A
PESTICIDE LIST**

Northern Harvest Sea Farms NL Ltd.

PESTICIDE OPERATOR LICENCE NO: 13-144

These are the only pesticides that have been approved for use for this pesticide operator licence. The operator is not permitted to purchase, apply, store or otherwise handle pesticides not on this list.

If you require additional pesticides, please submit the form, "**Request for Additional Pesticide(s)**", to Fax # (709) 729-6969 or in writing to:

Pesticides Control Section
P.O. Box 8700
St. John's, NL
A1B 4J6

<u>Pesticide Name</u>	<u>PCP Act Reg. #</u>	<u>Formulation</u>	<u>Active Ingredient</u>
Salmosan 50WP	29466	WP	Azamethiphos
Interox Paramove 50	29783	L	Hydrogen Peroxide

