



Date: January 5<sup>th</sup>, 2017

PUP No. 869-0006-17/19

**Via email and mail**

Attn: Richard Opala

Marine Harvest Canada Inc.  
124 1334 Island Highway  
Campbell River, B.C. V9W 8C9

Dear Permit Holder:

Enclosed is Pesticide Use Permit No. 869-0006-17/19 issued under the provisions of the *Integrated Pest Management Act*. Your attention is respectfully directed to the conditions of the permit that must be complied with.

It is the responsibility of the permit holder to ensure that all activities conducted under this permit are carried out with due regard to the rights of third parties, and comply with other applicable legislation that may be in force.

This decision may be appealed in accordance with Section 14 of the *Integrated Pest Management Act*. Notice of the appeal must (1) be in writing, (2) include the grounds for appeal, (3) be sent by registered mail to PO Box 9425 Stn. Prov. Govt, Victoria, BC, V8W 9V1 or personally delivered to the Chair, Environmental Appeal Board, Fourth Floor, 747 Fort Street, Victoria, British Columbia, V8W 3E9, (4) be delivered within 30 days from the date of the decision, and (5) be accompanied by a fee of \$25.00, payable to the Minister of Finance and Corporate Relations.

Administration of this permit will be carried out by staff from our regional office located at 10470 - 152nd Street, Surrey, British Columbia, V3R 0Y3. If you have any questions please call me at (250) 490-8257.

Yours truly,

Andreas Wins-Purdy, P. Ag.  
Integrated Pest Management Section Head  
On behalf of the Administrator, *Integrated Pest Management Act*

Attachments



MINISTRY OF ENVIRONMENT  
**PESTICIDE USE PERMIT**  
**No. 869-0006-17/19**

*Pursuant to Section 6 of the Integrated Pest Management Act*

Marine Harvest Canada Inc.  
124 1334 Island Highway  
Campbell River, B.C. V9W 8C9

is authorized to use pesticides subject to the conditions listed below. Contravention of any of these conditions is a violation of the *Integrated Pest Management Act* and may result in prosecution.

**Purpose of the Permit**

This permit has been issued for the management of post-chalimus stage sea lice (*Lepeophtheirus spp* and *Caligus spp*) on farmed Atlantic salmon at six sites in the Klemtu area off the West Coast of Vancouver Island using the pesticide Interlox Paramove 50 (active ingredient hydrogen peroxide) administered using either well boats or enclosed tarpaulins. This use is authorized as part of an integrated pest management program for sea lice management, and is necessary as part of an effective resistance management strategy for chemotherapeutant use at these sites.

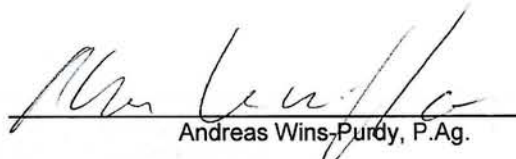
**Treatment Dates**

A. The pesticide use described herein may be conducted from:

- (a) Seven days after the date of posting of the permit as described in Condition B;
- (b) Seven days after the date of permit delivery to the Kitasoo Band office as described in Condition C; and
- (c) Two days after the date of publication described in Condition D.

until the permit expires on December 31<sup>st</sup>, 2019.

Date Issued: January 5<sup>th</sup>, 2017

  
Andreas Wins-Purdy, P.Ag.

On behalf of the Administrator – *Integrated Pest Management Act*



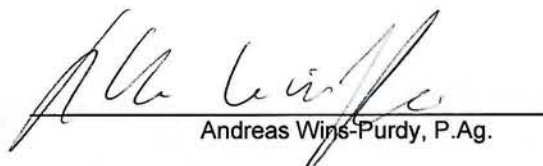
## Notifications and Access to Project Information

- B.** To allow inspection by the public, within seven days of permit issuance, the permit holder shall post a copy of the permit with relevant maps at least at the following locations: Marine Harvest Canada Inc. office at suite 124-1334 Island Highway, Campbell River BC; and the main page of the Marine Harvest Canada website ([www.marineharvest.ca](http://www.marineharvest.ca)).

The permit and maps shall remain posted at this location for a period of at least 30 days or until one week after the treatments for that year have ceased. After the initial treatment year, the permit and associated maps shall be displayed at the Marine Harvest Canada office and website at least seven days prior to the next year's initial treatment and until one week after all pesticide use activities have ceased for that year.

- C.** To allow inspection by the public, within seven days of permit issuance, the permit holder shall deliver a copy of the permit (either a paper or electronic copy) with relevant maps to the Kitasoo Band Office in Klemtu, BC, and respectfully request that a copy of the permit with relevant maps be posted at the Kitasoo Band Office for a period of at least 30 days.
- D.** Within 15 days of issuance of the permit, the permit holder shall publish a notice in at least one community newspaper whose area of circulation includes the treatment area and proximal communities. The published notice shall contain the following information:
- (a) Name, address and telephone number of the permit holder,
  - (b) Permit number,
  - (c) Purpose of pesticide use,
  - (d) Pesticide(s) to be used (trade name, P.C.P. No. and active ingredient),
  - (e) Method(s) of pesticide application,
  - (f) Map(s) showing the location of the treatment area,
  - (g) Projected dates of project commencement and completion,
  - (h) Information on where copies of the permit and map of the treatment area may be examined in detail,
  - (i) Information on how and when the public can contact the permit holder to obtain any permitted pesticide use and related integrated pest management information.

Date Issued: January 5<sup>th</sup>, 2017



Andreas Wins-Purdy, P.Ag.

On behalf of the Administrator – *Integrated Pest Management Act*





- E. The permit holder shall also conduct any additional notification agreed upon during the consultation process in the manner agreed upon with the parties to be notified.
- F. At least 24 hr hours prior to any pesticide use, signs advising of the upcoming pesticide use shall be posted at the main access points to each facility being treated. These postings shall be maintained for a period of one month from the last date of the use. The signs shall be waterproof and a minimum of 279 mm by 432 mm in size (i.e. 11" x 17") in size. Each sign shall have the heading "Pesticide Use Notice" (in 2.5 cm lettering) and contain at least the following information:
- (a) The trade names and active ingredients of each pesticide to be used.
  - (b) The date or range of dates for the pesticide use.
  - (c) Precautions to be taken by the persons needed to minimize exposure to the pesticides and residues.
  - (d) The Pesticide Use Permit number.
  - (e) How to obtain additional information about the pesticide or pesticide use.
- G. Detailed information on the proposed, current and past pesticide use under this permit shall be made readily available to any First Nations, license holders, and members of the general public that may wish to access or use the general area adjacent to the treated facilities. Treatment information must be of sufficient detail to allow the accurate delineation of areas where pesticide use and drift may have occurred.
- H. All personnel involved in the project shall be notified of this permit, provided a copy of the permit, and be familiar with the terms and conditions of the permit and any permit amendments prior to any pesticide use.

#### Authorized Pesticides

- I. The pesticide listed below is approved for use under the terms of this permit. Lowest effective application rates and area of pesticide use must be utilized where project objectives may still be achieved.

Trade Name	Active Ingredient (a.i.)	Product P.C.P. No.	Application Rate of Interlox Paramove 50 (gm/l)	Maximum No. of Treatments (per pen per year)
Interlox Paramove 50	Hydrogen Peroxide	31393	2.4 -3.6	6

Date Issued: January 5<sup>th</sup>, 2017

  
Andreas Wins-Purdy, P.Ag.

On behalf of the Administrator – Integrated Pest Management Act



## Target Pest Species, Treatment Area and Purpose

- J. Pesticide use shall be for the sole purpose of treating post-chalimus stage sea lice (*Lepeophtheirus spp* and *Caligus spp*) on farmed Atlantic salmon at the six locations identified on the maps accompanying this permit: Alexander Inlet, Cougar Bay, Goat Cove, Kid Bay, Lime Point, and Sheep Pass.


## Monitoring

- K. The permit holder shall design and implement (to the satisfaction of the Administrator) an impact monitoring regime that will at least:
- a) record water temperatures, current flow and other conditions experienced during each release of pesticide treated waters.
  - b) generally evaluate the potential impacts on local benthic invertebrates, other marine aquatic animals and inter-tidal vegetation associated with the dispersal of released pesticide-treated waters.
  - c) develop procedures that will be implemented to mitigate any observed or suspected impacts associated with the releases of pesticide-treated waters.
- L. Water treatment calculations, dose rates, and water column samples associated with the planned or undertaken pesticide use shall be provided to the Administrator upon request.
- M. In situations where pesticide spills or released treated waters are believed to have impacted inter-tidal areas or species at risk, an impact assessment shall be completed to the satisfaction of the Administrator.

## Restrictions

- N. Where practicable, the release of pesticide-treated waters shall occur during periods of outgoing tides and other environmental conditions that would reduce the potential for the released treatment waters to move into shallow waters and potentially impact proximal inter-tidal zones.
- O. The permit holder shall utilize (to the satisfaction of the Administrator) a process for recovering, destroying and disposing of sea lice dislodged during the permitted pesticide uses as well as during fish harvesting activities. The ongoing development and enhancement of such non-chemotherapeutant sea lice control processes shall occur for the duration of this permit.

Date Issued: January 5<sup>th</sup>, 2017



Andreas Wins-Purdy, P.Ag.

On behalf of the Administrator – Integrated Pest Management Act





- P. Releases of pesticide-treated waters from well boats shall occur only while the vessel is in motion in locations that are at least 200 m away from shorelines, structures on water, or other known features that are potentially sensitive to this pesticide.
- Q. Pesticide use will be conducted under the direction of a veterinarian, by applicators with valid certificates in the *marine aquaculture* category, and in accordance with any additional treatment-specific training required by the pesticide manufacturer.
- R. The permit holder must comply with the requirements of the label for the pesticide being used and all other applicable provisions under the *Integrated Pest Management Act*.

### Record Keeping and Reporting

- S. For each treatment location and day of pesticide use under this permit, the permit holder must keep a record containing the following information:
  - a) the name and address of the owner or manager of the treatment location
  - b) if the use was performed as a service, the name and license number of the licensee who performed the service
  - c) if the use was not performed as a service, the name and certificate number of the pesticide applicator certificate holder who used the pesticide
  - d) the date and time of the pesticide use
  - e) the name of the pest targeted by the use or the purpose of the pesticide use
  - f) the trade name of each pesticide used and its registration number under the federal Act
  - g) for each pesticide used, the method and rate of application and the total quantity used
  - h) if the use was outdoors, the prevailing meteorological conditions including temperature, precipitation, and velocity and direction of the wind
- T. An annual report for each calendar year of pesticide use under this permit shall be provided to the Administrator on or before January 31<sup>st</sup> of the next calendar year. The reports shall include information on the rates and quantities of pesticide used; the water volumes treated with each use and the total water volume treated, treatment efficacy information, any observed or potential impacts on non-target organisms, the information described in condition K and the results of the sea lice recovery efforts under section O.
- U. Pesticide spills that result in impacts not authorized by or consistent with this permit, shall be immediately reported to the Provincial Emergency Program at 1-800-663-3456. Spill-affected areas shall be immediately evaluated and cleaned-up/decontaminated as appropriate. As soon as practicable, the Section Head - Integrated Pest Management shall be provided with reports on the nature of the spill, spill impacts as well as any clean-up/decontamination activities planned or undertaken.

Date Issued: January 5<sup>th</sup>, 2017



Andreas Wins-Purdy, P.Ag.

On behalf of the Administrator – *Integrated Pest Management Act*

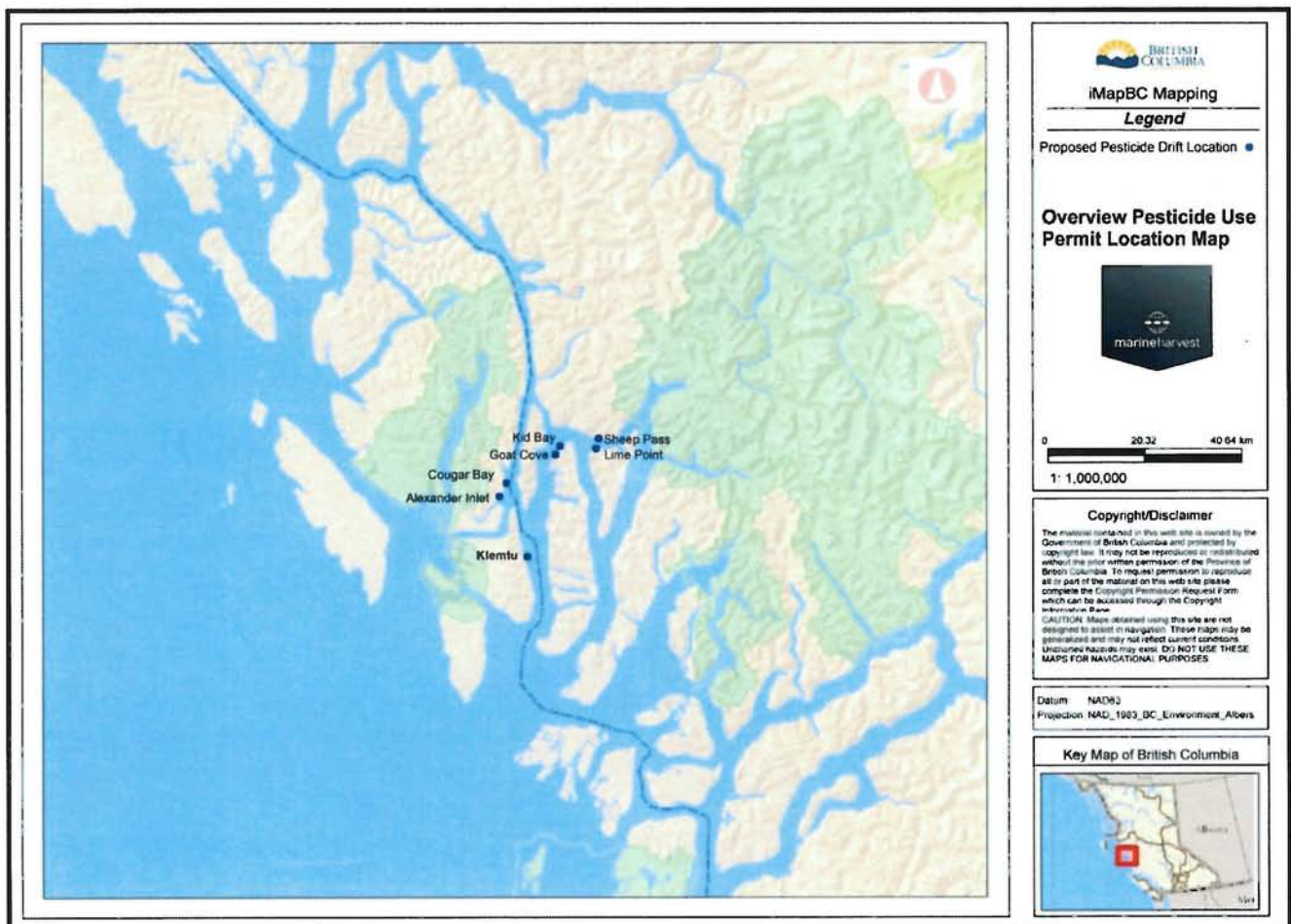


- V. Permit non-compliance that results in impacts not consistent with the intent of this permit shall be immediately reported to the Administrator. Actions, to the satisfaction of the Administrator, shall be undertaken to evaluate the potential impact of the non-compliance on human health and/or the environment.

Date Issued: January 5<sup>th</sup>, 2017

  
Andreas Wins-Purdy, P.Ag.

On behalf of the Administrator – *Integrated Pest Management Act*

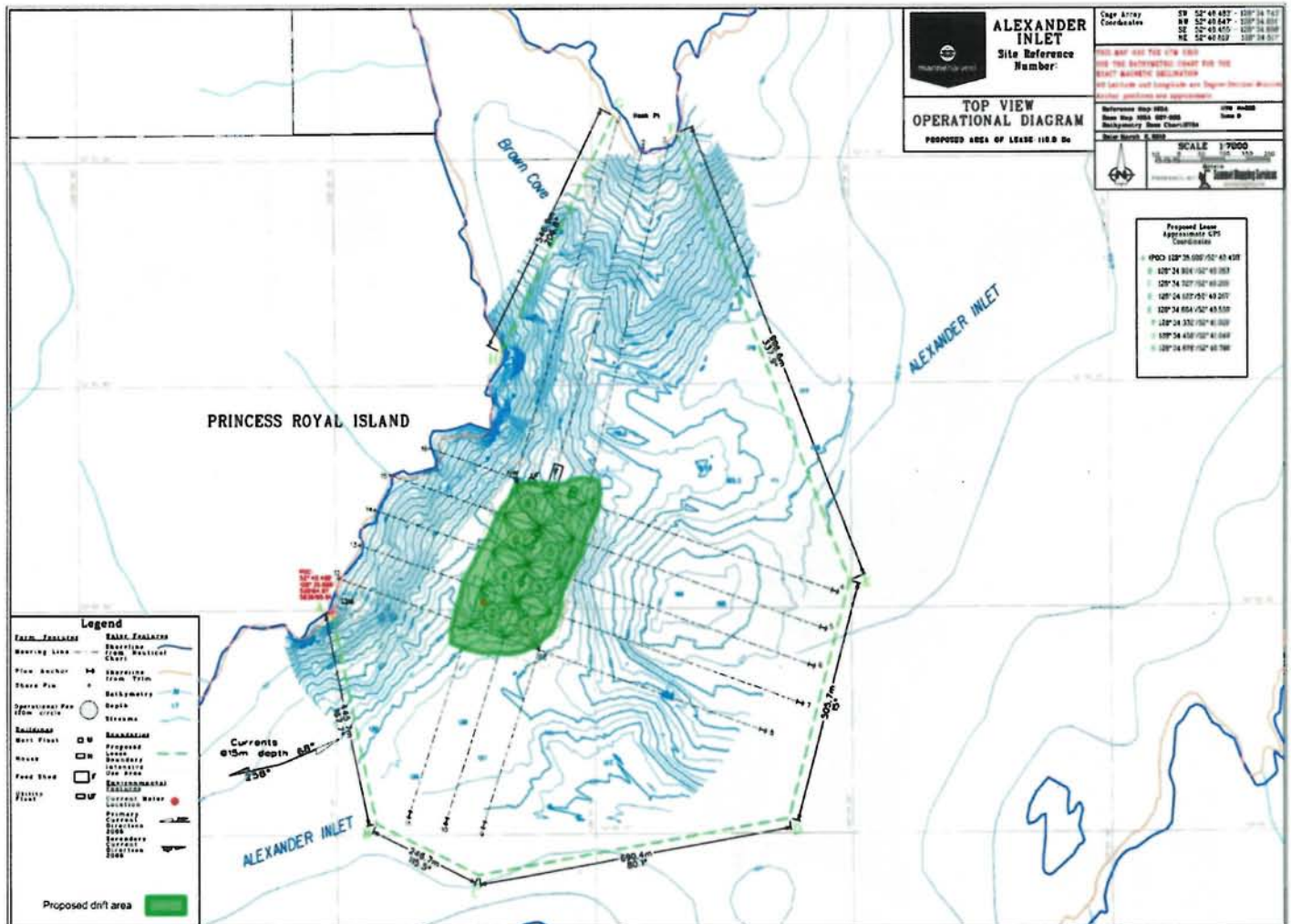


Date Issued: January 5<sup>th</sup>, 2017

  
Andreas Wins-Purdy, P.Ag.

On behalf of the Administrator – Integrated Pest Management Act





Date Issued: January 5<sup>th</sup>, 2017

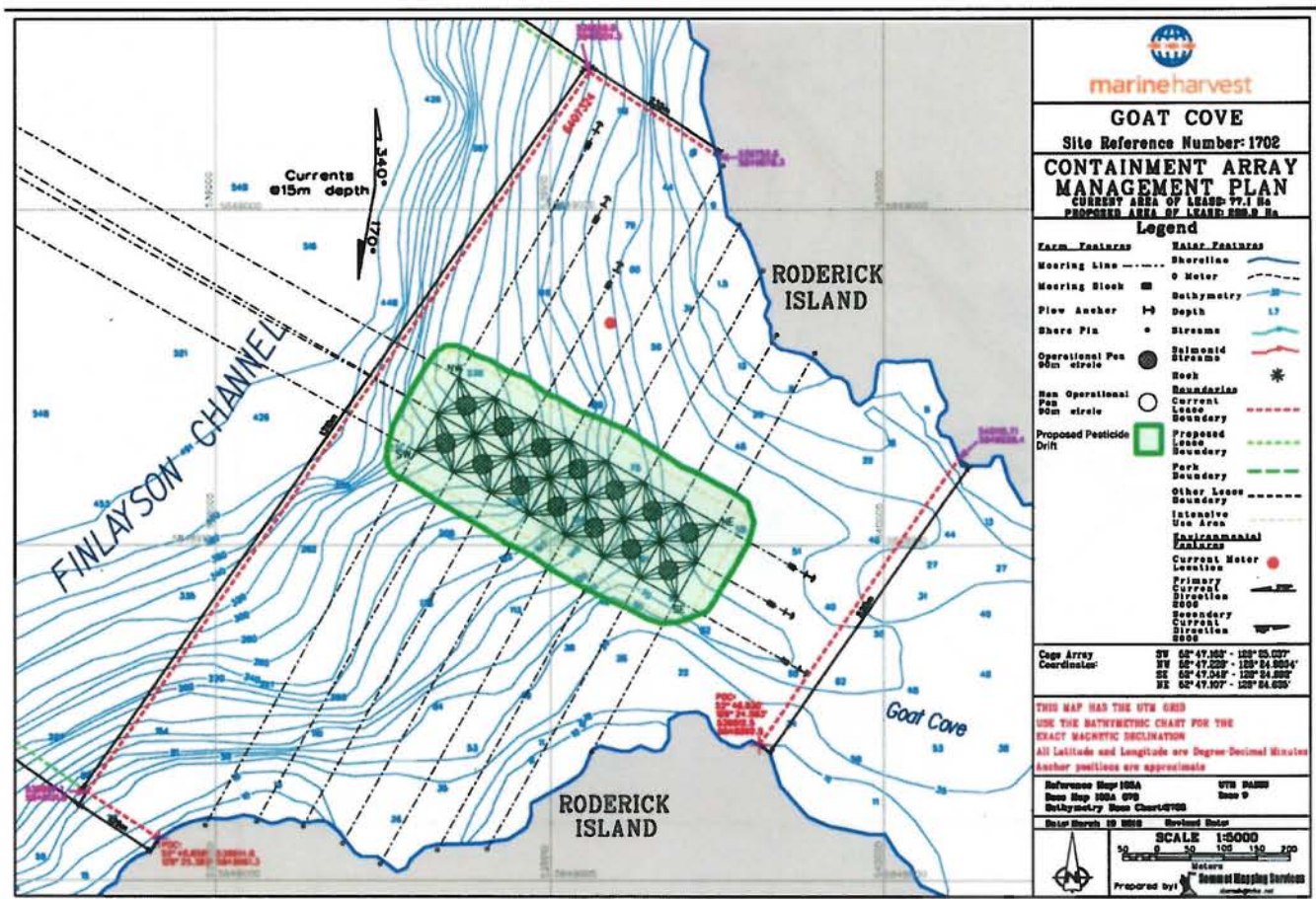
  
Andreas Wins-Purdy, P.Ag.

On behalf of the Administrator – *Integrated Pest Management Act*

Permit No. 869-0006-2017/2019







Date Issued: January 5<sup>th</sup>, 2017

*[Signature]*  
Andreas Wins-Purdy, P.Ag.

On behalf of the Administrator – Integrated Pest Management Act



**CONTAINMENT ARRAY  
MANAGEMENT PLAN**  
CURRENT AREA OF LEASE: 103.3 Ha  
PROPOSED AREA OF LEASE: 124.3 Ha

**Legend**

### Legend

- [illegible]

Cape Arroyo	33	33° 47' 30.77" N	- 120° 54' 53.00" W
Coordination	34	33° 47' 50.00" N	- 120° 54' 30.00" W
	35	33° 47' 54.11" N	- 120° 53.5000" W
	36	33° 48.0000" N	- 120° 53.5000" W

THIS MAP HAS THE UTM GRID  
USE THE BATHYMETRIC CHART FOR THE  
EAST GAINING INFORMATION

Reference Day 2020                      GMT 0400  
Run Date 05/05/20, 05, 05, 05            Page 2

Base 10.001      Height 8.001

SCALE 1:5000

0    50    100    150    200

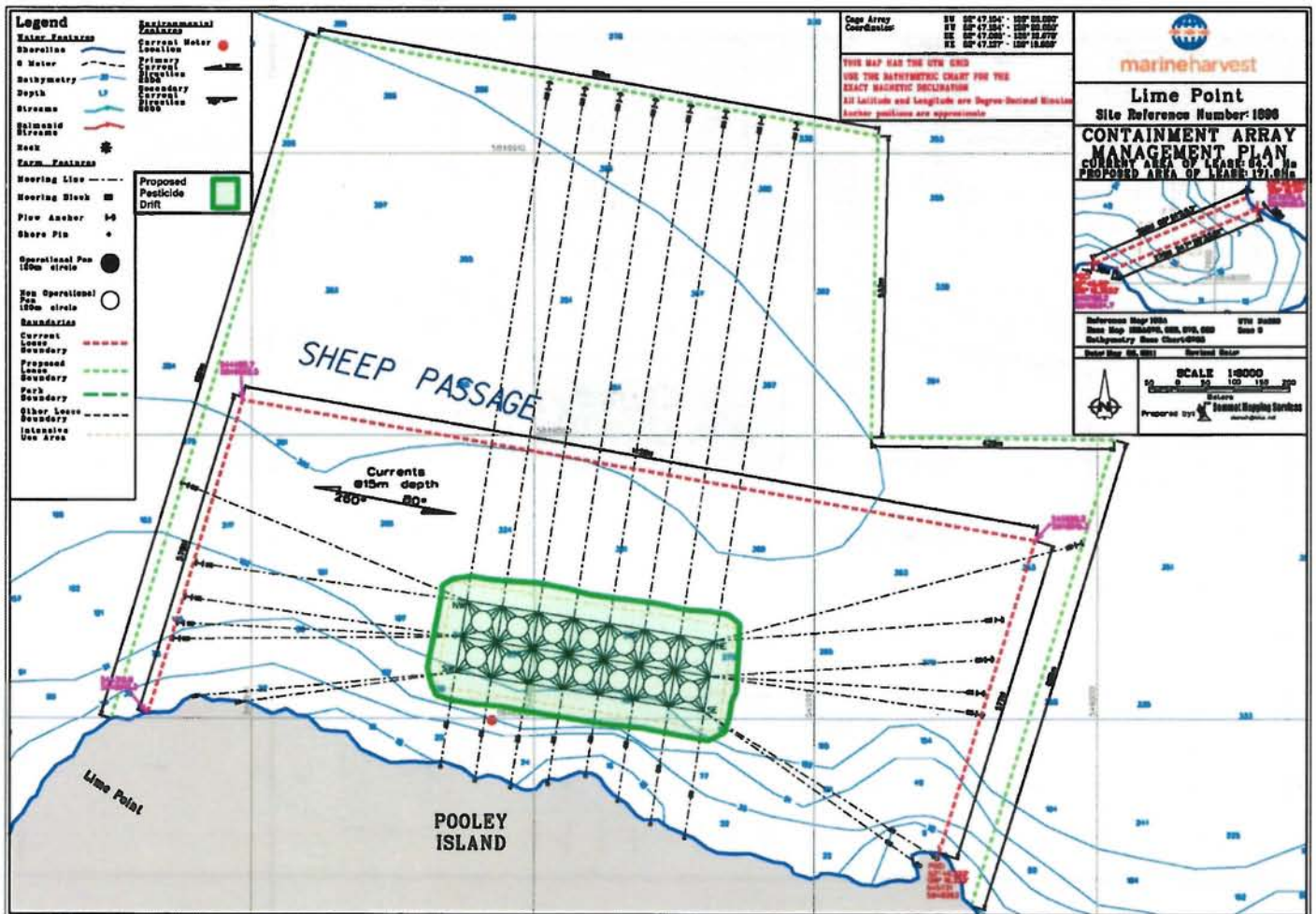
Wolters  
Kluwer  
Prepared by: **Account Mapping Services**  
ams@wolterskluwer.com

\_\_\_\_\_

  
Andreas Wins-Purdy, P.Ag.

On behalf of the Administrator – *Integrated Pest Management Act*

Permit No. 869-0006-2017/2019

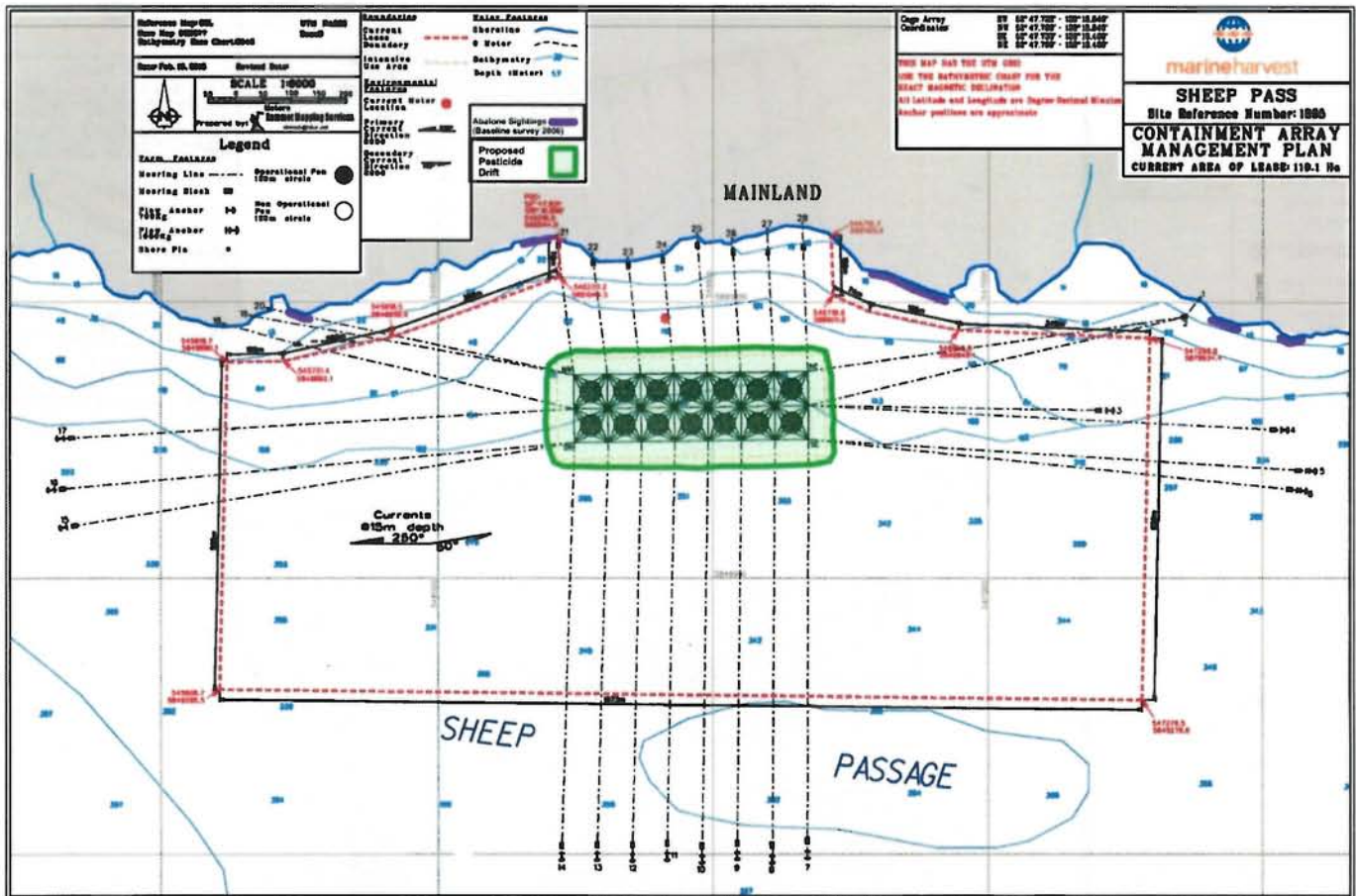


Date Issued: January 5<sup>th</sup>, 2017


  
Andreas Wins-Purdy, P.Ag.

On behalf of the Administrator – Integrated Pest Management Act

Permit No. 869-0006-2017/2019



Date Issued: January 5<sup>th</sup>, 2017

  
Andreas Wins-Purdy, P.Ag.

On behalf of the Administrator – Integrated Pest Management Act