



June 28, 2022

PUP No. 402-0684-22-25

Via email: becky.brown@gov.bc.ca

Attn: Becky Brown

BC Ministry of Forests
Suite 103 – 2100 Labieux Road
Nanaimo, BC
V9T 6E9

Dear Permit Holder:

Enclosed is pesticide use permit No. 402-0684-22-25, issued under the provisions of the *Integrated Pest Management Act*. Your attention is respectfully directed to the terms and conditions in 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 to the Environmental Appeal Board in accordance with Section 14 of the *Integrated Pest Management Act*. An appeal must be delivered within 30 days from the date that notice of this decision is given. For further information, please contact the Environmental Appeal Board at (250) 387-3464.

Administration of this permit will be carried out by staff from the Environmental Protection Division's Regional Operations Branch. Plans, data and reports pertinent to the permit are to be submitted by email or electronic transfer to the Administrator, designated officer, or as further instructed.

Yours truly,

Cassandra Caunce, BSc.
Director South Authorizations
for Administrator, *Integrated Pest Management Act*



MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE STRATEGY

PESTICIDE USE PERMIT

No. 402-0684-22-25

Pursuant to Section 6 of the Integrated Pest Management Act

British Columbia Minister of Forests
Suite 103 – 2100 Labieux Road
Nanaimo, BC V9T 6E9

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.

1. Purpose of the Permit

- 1.1 Pesticide use shall be for the purpose of eradicating invasive intertidal cordgrasses (*Spartina anglica*, *S. alterniflora*, *S. densiflora*, and *S. patens*) from the intertidal areas of the central east coast of Vancouver Island (Comox Harbour and Baynes Sound) and the northern Gulf Islands (Hornby and Sandy Islands and the Seal Islets) as shown on Map 1.

2. Authorized Pesticide Use

- 2.1 The pesticides listed below are approved for use under the terms of this permit. The permit holder must utilize the lowest effective application rates where treatment objectives may still be achieved.

Trade Name	Active Ingredient (a.i.)	Product P.C.P. No.	Application Rate of Interlox Paramove 50 (g/L)	Treatment Area	Total Quantity
Habitat Aqua	Imazapyr	32374	1.12-1.68 kg ai/ha	40	44.8-67.2 kg
Ag-Surf III	Alcohol ethoxylate	30071	0.5% v/v	40	56 kg

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3. Treatment Dates

- 3.1 The pesticide use described herein may be conducted from seven days after the date of publication of the permit, as described in condition 4.2, until the permit expires on June 28 2025.

4. Notifications

- 4.1 Within seven days of permit issuance, the permit holder must post a copy of the permit on the Ministry of Forests Invasive Plant Program website. The permit must remain accessible at this location until one week after the permit has expired.
- 4.2 Within 15 days permit issuance, the permit holder must publish a notice in at least one community newspaper circulated near the treatment area. The published notice must 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 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; and
 - (i) information on how and when the public can contact the permit holder to obtain any information related to the pesticide use.
- 4.3 The permit holder must conduct any additional notification with other parties, as agreed upon with those parties during the consultation process.
- 4.4 At least seven days prior to pesticide application, notification of impending herbicide treatments and any relevant harvesting restrictions shall be sent to the holder of any authorization for food collection within 100 m of a treatment area.
- 4.5 At least 24 hours prior to any pesticide use, the permit holder must post signs advising of the upcoming pesticide use at the main access points to the treatment area. These postings must be maintained for the duration of the pesticide use and remain in place for 30 days from the date of application. The signs must be waterproof or constructed of a water-resistant material,

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be a minimum of 279 mm by 432 mm in size (i.e. 11" x 17"), and have the heading "Pesticide Use Notice" (in 25 mm lettering) and contain, at a minimum, 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) contain precautionary advice to minimize exposure to the pesticide or its residues, including, but not limited to:
 - i. specifying that the public should not enter the treatment area for 48 hours following treatment,
 - ii. indicating that Salicornia may not be harvested within the treatment area for the remainder of the calendar year.
- (d) the Pesticide Use Permit number; and
- (e) how to obtain additional information about the pesticide or pesticide use.

4.6 The permit holder must make detailed information on the proposed, current and past pesticide use under this permit readily available to anyone that accesses or uses the general area adjacent to the treated areas. Information must be of sufficient detail to allow individual areas of pesticide use to be accurately located.

4.7 The permit holder must ensure that all personnel involved in the project are:

- a) notified of this permit;
- b) provided a copy of the permit; and
- c) familiar with the terms and conditions of the permit and any permit amendments prior to any pesticide use.

4.8 At least seven days and no more than 35 days before conducting each pesticide treatment authorized under this permit, the permit holder must provide a treatment notice to ipmreporting@gov.bc.ca that includes the location, date and approximate time of treatment. Immediate notification must be provided when a pending treatment has been cancelled, delayed, or deferred.

5. Monitoring

5.1 Mapping of *Spartina spp.* shall be conducted annually to determine treatment locations and to evaluate efficacy of treatments.

5.2 For each pesticide application, *Spartina* plants shall be examined visually for adequate spray coverage.

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6 Restrictions

- 6.1 The permit holder must ensure that a copy of the certificate of all certified applicators conducting the pesticide use is at or near the treatment location during the pesticide use.
- 6.2 The permit holder must comply with the requirements of the label for the pesticide being applied, including the inclusion of 0.5% volume to volume IPCO Ag-Surf II (P.C.P. No. 30071, active ingredient: alcohol ethoxylate) in the tank mix.
- 6.3 The permit holder must comply with all applicable regulations under the *Integrated Pest Management Act*.
- 6.4 All spray equipment shall be properly calibrated prior to use.
- 6.5 All pesticide products and application equipment used shall be maintained in secure conditions that prevent tampering or the introduction of contaminants.
- 6.6 A spill response kit shall be available during pesticide use.
- 6.7 A dye shall be included in the tank mix so that treated *Spartina* plants are visually identifiable.
- 6.8 Pesticide use shall be conducted by applicators with certificates in the Industrial Vegetation and Noxious Weed category and who have also received additional pesticide product and treatment-specific training by the permit holder.
- 6.9 Pesticide treatment area boundaries shall be clearly marked on the shoreline side.
- 6.10 Each *Spartina* plant shall only be treated with adequate spray coverage once per year.
- 6.11 Pesticide use is restricted to daylight hours and periods when rain is not forecast to occur within 4 hours post treatment.
- 6.12 Pesticide use shall occur on a low or receding tide such that at least 4 hours of drying time can be attained prior to treated plants being contacted by flooding ocean waters.
- 6.13 Pesticides may be applied at wind speeds up to 8 km/hr, unless shrouds and/or other wind sheltering devices are used. If shrouds and/or other wind sheltering devices are used, pesticides may be applied at wind speeds up to 20 km/hr.

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6.14 In areas where plant or aquatic food products are collected for human consumption and are authorized under another statute,

- a) pesticide application shall be delayed until after the permitted food collector(s) have ceased food collections for the calendar year, or
- b) pesticide applications may occur before food collections for the year have ceased, provided the authorized food collector's permission has been granted, and he or she has been provided with the specific location of treated plants and advice on when and how the crop may be harvested safely.

6.15 In areas of high public use such as bathing beaches (not including boat launches or shoreline areas accessed primarily by foot paths or trails), pesticide use shall not occur within 24 hours of high use periods such as weekends or public holidays.

6.16 The permit holder shall take all necessary actions to mitigate spray or spray drift related impacts on any populations of pesticide-sensitive rare and endangered species found to exist within the treatment area.

6.17 Areas affected by pesticide spills that result in impacts not authorized by, or consistent with this permit, shall be cleaned-up and decontaminated immediately.

7 Record Keeping and Reporting

7.1 For each treatment location and day of 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) the method and rate of application and the total quantity used,
- h) the prevailing meteorological conditions, including temperature, precipitation, and speed and direction of the wind,
- i) if a shroud or other wind sheltering device was used,
- j) the specific location of treated plants.

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- 7.2 The permit holder shall prepare and submit an annual report each calendar year under this permit to ipmreporting@gov.bc.ca by January 31 in the next calendar year. The report must include:
- a) the name and address of the permit holder,
 - b) the trade name, P.C.P No., active ingredient and the quantity (in L) of pesticide used,
 - c) the area treated (in ha),
 - d) a description of the timing of treatments,
 - e) the pesticide treatment efficacy based on monitoring,
 - f) observed or potential impacts on non-target plants,
 - g) any observations of resistance in *Spartina* plants,
 - h) all pertinent maps and recommended follow-up activities for the treatment area.
- 7.3 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.
- 7.4 A report on spills and activities outlined in Condition 6.17 shall be provided to the IPM Section Head (or their representative) and ipmreporting@gov.bc.ca as soon as practicable.
- 7.5 Permit non-compliance that results in impacts not consistent with the intent of this permit shall be reported to the IPM Section Head (or their representative) and ipmreporting@gov.bc.ca within 48 hours of the infraction's discovery.

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Proposed Pesticide Use Permit Boundary

2021 Known Invasive *Spartina* Locations

- *S. anglica*
- *S. patens*
- *S. densiflora*



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Esri, NASA, NGA, USGS, Esri Canada, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, EPA, USDA, NRCan, Parks Canada