

**CODE OF PRACTICE FOR PESTICIDES  
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**ENVIRONMENTAL CODE OF PRACTICE  
FOR PESTICIDES  
ALBERTA ENVIRONMENT**

**Preface**

**1(1)** The Code of Practice for Pesticides is incorporated by the *Pesticide Sales, Handling, Use and Application Regulation* (A.R. 24/97), under the authority of section 36 of the *Environmental Protection and Enhancement Act*. Pesticide applicators, pesticide services and pesticide vendors affected by this Code must meet all its requirements to ensure that their activities are in compliance with Alberta's environmental laws. In addition to the requirements of this Code of Practice, pesticide applicators, pesticide services and pesticide vendors must comply with all requirements of the *Environmental Protection and Enhancement Act*, its associated regulations, and all other applicable laws.

**(2)** Pesticide services, wholesale vendors selling pesticides listed in Schedules 1, 2 or 3 of the *Pesticide (Ministerial) Regulation* (A.R. 43/97), and retail vendors selling pesticides listed in Schedules 1 or 2 of the *Pesticide (Ministerial) Regulation* (A.R. 43/97) must register with Alberta Environment. Section 4 of this Code deals with registration in greater detail.

**Introduction**

**2(1)** This Code of Practice provides specific details regarding the safe handling, use and application of pesticides to ensure environmental protection. Pesticide applicators, pesticide services and pesticide vendors within the Province of Alberta must comply with these requirements.

**(2)** Questions or concerns regarding the application or contents of this Code of Practice can be made to:

Alberta Environment  
Environmental Sciences Division  
Municipal Program Development Branch  
4th Floor, 9820 - 106 Street  
Edmonton, AB T5K 2J6  
Phone: (780) 427-5883  
Fax: (780) 422-5120

or to any of the following Alberta Environment regional offices (to be connected toll-free, first call 310-0000):

Grande Prairie	phone: (780) 538-5460
Edmonton	phone: (780) 427-7617
Stony Plain	phone: (780) 963-6131

Red Deer	phone: (403) 340-7052
Calgary	phone: (403) 297-7602
Lethbridge	phone: (403) 381-5322

## **Definitions**

**3(1)** In this Code of Practice, “woody plant” means trees and shrubs.

**(2)** Terms that are defined in sections 1 and 147 of the *Environmental Protection and Enhancement Act* and in the *Pesticide (Ministerial) Regulation* (A.R. 43/97) and the *Pesticide Sales, Handling, Use and Application Regulation* (A.R. 24/97) are incorporated into and become part of this Code of Practice, unless otherwise defined or modified within this Code of Practice.

## **Registration**

**4(1)** In addition to any information required by the Director under the *Approvals and Registration Procedure Regulation* (A.R. 113/93), any person required to obtain a service registration under section 7 of the *Pesticide (Ministerial) Regulation* (A.R. 43/97) shall apply to the Director for registration in accordance with section 8 of the *Pesticide (Ministerial) Regulation* (A.R. 43/97).

**(2)** In addition to any information required by the Director under the *Approvals and Registration Procedure Regulation* (A.R. 113/93), any person required to obtain a vendor registration under section 14 of the *Pesticide (Ministerial) Regulation* (A.R. 43/97) shall apply to the Director for registration in accordance with section 15 of the *Pesticide (Ministerial) Regulation* (A.R. 43/97).

## **Procedural Requirements - Pesticide Applicator Assistants**

**5(1)** In the following subsections,

- (a) “assistant” means an assistant that has been trained according to a training checklist only; and
- (b) “authorized assistant” means an assistant that has passed an examination recognized by the Director.

**(2)** An assistant or authorized assistant must be

- (a) at least 16 years of age to handle pesticides listed in Schedules 2 or 3 of the *Pesticide (Ministerial) Regulation* (A.R. 43/97), and
- (b) at least 18 years of age to handle pesticides listed in Schedule 1 of the *Pesticide (Ministerial) Regulation* (A.R. 43/97).

**(3)** An applicator must

- (a) for each assistant, complete a training checklist in the format provided in Appendix “A”, or

in a format acceptable to the Director, documenting

- (i) the instruction of each assistant who is applying pesticides, and
- (ii) the instruction of each assistant who is mixing or loading pesticides.

OR

(b) for each authorized assistant, ensure that the authorized assistant has passed an examination recognized by the Director regarding pesticide application and complete a training checklist in a format acceptable to the Director.

(4) The applicator must make training checklists and examination verifications available to Alberta Environment upon request.

(5) An applicator, other than an applicator that holds an Aerial class of applicator certificate, may supervise a maximum of 6 individuals who may be assistants or authorized assistants.

(6) When the applicator is supervising

- (a) authorized assistants, the applicator is not required to be physically present at the application site;
- (b) assistants, the applicator must be present at each application site at least once per day and each time the pesticide, application equipment, or calibration are changed.

(7) An authorized assistant, provided that the authorized assistant is physically present at an application site and can directly observe each assistant's pesticide application activities, may supervise

- (a) a maximum of 6 assistants for stem specific herbicide applications for Industrial or Forestry applications described in Schedule 5 of the *Pesticide (Ministerial) Regulation* (A.R. 43/97); and
- (b) a maximum of 2 assistants for all other pesticide applications.

(8) An applicator or authorized assistant must check the following at each application site for each assistant:

- (a) the amount of pesticide used corresponds with the area treated;
- (b) the application equipment is not leaking;
- (c) protective equipment is present, in good condition, and is being worn by the assistants;
- (d) application records are maintained in accordance with sections 11 and 12 of the *Pesticide (Ministerial) Regulation* (A.R. 43/97); and
- (e) application and handling practices comply with provincial environmental laws.

(9) An applicator must ensure for each authorized assistant that:

- (a) application records are maintained in accordance with sections 11 and 12 of the *Pesticide (Ministerial) Regulation* (A.R. 43/97); and

(b) application and handling practices comply with provincial environmental laws.

**(10)** An applicator must be available to assistants and authorized assistants through telephone or radio contact when the applicator is not physically present at an application site.

**(11)** An applicator or an authorized assistant must be physically present throughout the following pesticide applications:

- (a) mixing and loading, use, application, or clean-up of any pesticide listed in Schedule 1 of the *Pesticide (Ministerial) Regulation* (A.R. 43/97);
- (b) any pesticide application conducted for forest management;
- (c) spraying trees with any insecticide other than *Bacillus thuringiensis* or soap;
- (d) mosquito adulticiding applications;
- (e) application of any nonselective residual herbicide containing any of the following active ingredients:
  - (i) atrazine;
  - (ii) bromacil;
  - (iii) diuron;
  - (iv) hexazinone;
  - (v) imazapyr;
  - (vi) simazine;
  - (vii) sodium chlorate;
  - (viii) sodium metaborate tetrahydrate;
- (f) application along a right-of-way with any pesticide product containing the active ingredient picloram; and
- (g) where the pesticide label requirements specify that the pesticide shall only be applied by an authorized applicator, certified applicator, pest control operator, or other approved applicator, or any similar restriction.

### **Procedural Requirement - Aerial Pesticide Applications**

**6 (1)** Aircraft performing aerial pesticide applications must be piloted by the holder of an Aerial class of applicator certificate.

**(2)** Prior to performing aerial pesticide application, each aircraft's pesticide application equipment must be checked and calibrated to standards that are recognized by the Director. Each aircraft's pesticide application equipment must be rechecked and re-calibrated to those standards every 20 months thereafter.

### **Procedural Requirements - Insurance Coverage**

**7(1)** Every applicant for or holder of a pesticide service registration, other than a government department or agency, must provide the Director with a certificate of insurance in the format acceptable to the Director each time that an insurance policy is issued or renewed.

(2) A certificate of insurance will not be acceptable to the Director unless it has been issued by an authorized representative of the insurer or the insurance agent or broker.

(3) All pesticide service registration holders must carry general liability insurance covering pesticide application activities in an amount not less than \$1,000,000 for any one occurrence.

(4) Pesticide service registration holders offering agriculture or aerial pesticide application services as described in Schedule 5 of the *Pesticide (Ministerial) Regulation (A.R. 43/97)* must carry insurance covering pesticide drift liability in an amount not less than \$25,000 for any one occurrence.

### **Operational Requirements - Pesticide Mixing and Loading Sites**

**8(1)** In this section,

- (a) "field pesticide mixing and loading site" means a temporary site that is not routinely used for mixing or loading pesticides, and is any site other than a primary pesticide mixing and loading site;
- (b) "primary pesticide mixing and loading site" means a site that is routinely used for mixing or loading pesticides, and is associated with
  - (i) the permanent premises of a pesticide service;
  - (ii) a pesticide storage facility; or
  - (iii) any operation that involves the application of a pesticide by an applicator.

(2) An applicator must not locate outdoor field pesticide mixing and loading sites within 30 horizontal metres of an open body of water, unless at least one of the following requirements is met:

- (a) a closed system designed, constructed and maintained to eliminate spills is used for mixing and loading operations;
- (b) spray equipment of less than 20 litres total volume of pesticide solution is used, and secondary containment of the mixing and loading operation is used and is adequate to contain all of the pesticide and water mixture that would result from a release during the mixing and loading operation; or
- (c) the pesticide is being applied directly to the water as part of an aquatic pest management program.

(3) An applicator must

- (a) make a sketch of the area within a 50 metre radius surrounding a primary pesticide mixing and loading site showing
  - (i) site drainage pattern, including the location and distance of the mixing and loading facility from drains that lead into wastewater systems and storm drainage systems,

- (ii) watering points, wells and other water sources;
  - (iii) open bodies of water; and
  - (iv) surrounding land uses.
- (b) make the sketch readily accessible and available to personnel working at the primary pesticide mixing and loading site.
- (4) For all pesticide mixing and loading sites, the applicator must ensure that a contingency plan for the containment and cleanup of pesticide releases is available and understood by any personnel working at a pesticide mixing and loading site.

### **Operational Requirements - Emergency Response Equipment**

**9(1)** An applicator, a holder of a pesticide service registration, a holder of a wholesale or retail vendor registration, and a person who sells pesticides listed in Schedule 3 of the *Pesticide (Ministerial) Regulation* (A.R. 43/97) must ensure that emergency response equipment is available and operational in accordance with section 22 of the *Pesticide Sales, Handling, Use and Application Regulation* (A.R. 24/97).

- (2) Emergency response equipment referred to in section 9(1) must include
- (a) personal protective equipment, including
    - (i) chemical-resistant gloves, and a chemical-resistant apron as required for the pesticides being handled;
    - (ii) coveralls;
    - (iii) chemical-resistant boots;
    - (iv) eye protection;
    - (v) suitable cartridge respirators including extra cartridges for reusable respirators;
    - (vi) a first aid kit that meets occupational health and safety requirements, and
    - (vii) an emergency eyewash or emergency shower that meets occupational health and safety requirements.
  - (b) emergency response information, including
    - (i) current material safety data sheets (MSDS) and pesticide labels for all pesticides being used or stored;
    - (ii) emergency telephone numbers as required for the pesticides being handled and the location of handling, including:
      - (A) Alberta Environment's Environmental Complaint/Emergency number (1-800-222-6514), and
      - (B) the provincial Poison Centre (1-800-332-1414).
  - (c) spill clean-up materials, including

- (i) appropriate absorbent materials, such as vermiculite, kitty litter, dry coarse clay, or commercial absorbent where liquid pesticides are displayed, stored or used;
- (ii) appropriate neutralizing materials such as hydrated lime, bleach, or activated charcoal where liquid pesticides are displayed, stored, or used;
- (iii) a broom or shovel;
- (iv) containers with lids for waste material or leaking containers; and
- (v) blank labels to identify contents of waste containers.

### **Operational Requirements - Disposal of Pesticide Rinsate and Pesticide Solution**

**10** Applicators must dispose of pesticide rinsate and pesticide solution in accordance with label directions:

- (a) as mix water in spraying operations;
- (b) by spraying over the treated area; or
- (c) in a manner acceptable to the Director.

### **Forest Management Pesticide Use**

**11(1)** In this section “owner” means a tenant or other person who is in lawful possession or occupation of the land including, but not limited to, the holder of a Forest Management Agreement, a Disposition Holder, or a quota holder.

**(2)** A project proposal must be submitted to Alberta Sustainable Resource Development for any proposed application of pesticides in a forest. A project proposal and written authorization from Alberta Sustainable Resource Development is not required for the control of noxious weeds in accordance with the *Weed Control Act*.

(a) Proposals for herbicide use must be in accordance with *Guidelines for the Use of Herbicides for Silviculture in Alberta*.

(b) Proposals for insecticide or fungicide use must be in accordance with Alberta Sustainable Resource Development’s policies and guidelines.

**(3)** The application of pesticides in a forest is restricted to the location, target area, pesticide, pesticide application method, pesticide application rate, and application time authorized in writing by a designated employee of Alberta Sustainable Resource Development.

**(4)** An applicator responsible for supervising pesticide mixing must be in possession of the written authorization and the corresponding project proposal referred to in section 11 (2) while pesticide treatments are being conducted.

**(5)** An applicator must

- (a) identify all open bodies of water within the application site on maps or aerial photographs;
- (b) keep maps and aerial photographs with application records; and

(c) mark or flag all open bodies of water that will not be clearly visible to the applicator during the application.

(6) The following individuals or agencies must be notified a minimum of 72 hours prior to each pesticide application by the owner of the application site or the owner's agent:

- (a) all private property owners and resident holders of a public land disposition immediately adjacent to the application site;
- (b) all holders of a public land disposition on the application site; and
- (c) any person who was offered notification through a public involvement program.

(7) The owner of the application site or the owner's agent must

- (a) post signs immediately prior to a pesticide application advising that a pesticide application is in progress;
- (b) ensure that the signs remain in place for a minimum of 48 hours following the pesticide application; and
- (c) ensure that the signs are removed after 48 hours has passed following the pesticide application.

(8) The owner of the application site must ensure that a mixing or loading site is located

- (a) on land held by the owner of the herbicide treatment area;
- (b) on land held by an owner other than the owner of the herbicide treatment area where the owner has given permission to conduct mixing and loading operations; or
- (c) on land where a written authorization to conduct mixing or loading operations has been provided by a designated employee of Alberta Sustainable Resource Development.

(9) Pesticide mixing and loading sites must be planned and established by a certified applicator that holds a Forestry class of applicator certificate.

(10) Pesticide mixing and loading must be conducted or directly supervised by

- (a) a certified applicator who holds a Forestry class of applicator certificate, or
- (b) an authorized assistant.

### **Industrial Vegetation Management (roadside, powerline, pipeline and utility rights-of-way)**

**12(1)** Where a pesticide is to be applied on public land in the Green Area, the applicator must notify Alberta Sustainable Resource Development's land management representative for the proposed application area at least 2 working days prior to the proposed application date. The land management representative may waive this requirement on a site specific basis if the representative considers it appropriate to do so.

(2) Herbicide for woody plant control must not be applied in areas where the woody plants being controlled exceed the lesser of the height

- (a) specified on a pesticide label; or
  - (b) specified as follows:
    - (i) 1.5 metres height on rights-of-way adjacent to a numbered highway;
    - (ii) 2.5 metres height on rights-of-way adjacent to a road; or
    - (iii) 4.0 metres on a cross-country right-of-way.
- (3)** Section 12(2)(b) does not apply where
- (a) less than 30 percent of the woody plants being controlled, based on distribution over a one kilometre span, exceed the heights specified in that section; and
  - (b) any vegetation over 4 metres height on rights-of-way adjacent to a numbered highway or a road is removed within 1 calendar year after treatment.
- (4)** On rights-of-way where the woody plants that are being controlled cover less than 30 percent of the treatment area, the applicator must conduct herbicide applications on a selective, spot treatment basis.
- (5)** Prior to any pesticide application, the applicator must mark or flag all open bodies of water that will not be clearly visible during the application.

### **Structural Pest Control**

- 13(1)** Prior to any structural pest control application, the applicator or pesticide service must notify the owner of the building to be treated, or the owner's agent, of the proposed application.
- (2)** The building owner, or the owner's agent, must notify all persons who could be directly affected by the pesticide application by providing each party with written information including the following:
- (a) name, address and telephone number of the pesticide service;
  - (b) preparation procedures for each room in a dwelling;
  - (c) date and time to vacate the premises;
  - (d) name and Pest Control Products registration number of each pesticide being used; and
  - (e) re-entry periods for occupants and clean-up procedures.
- (3)** The written information in section 13(2) must be provided 24 hours prior to a structural pest control application unless persons who could be directly affected by the pesticide application agree to a shorter period.
- (4)** The applicator must perform mixing of pesticides and filling of spray equipment in a non-carpeted area.

## **Fumigation - Notification**

**14(1)** The applicator or pesticide service carrying out a fumigation must notify the owner or owners of adjacent structures and the occupants of any structure where the fumigation may constitute a potential adverse effect by providing written notice at least 24 hours prior to the fumigation.

- (2) The written notice must include the following information:
- (a) name, address and telephone number of the applicator or pesticide service carrying out the fumigation;
  - (b) date, time and location of the intended fumigation; and
  - (c) importance of remaining outside the area to be fumigated while warning signs are posted.

## **Mosquito Control**

**15** An applicator controlling mosquito populations in an area established through landowner and local authority agreement must provide notification to residents in areas to be treated prior to commencement of each annual pesticide application program.

## **Pesticide Application Within 30 Horizontal Metres of an Open Body of Water**

**16(1)** In this section “deposit” means depositing an amount that results in visible effects on vegetation or an amount that is likely to cause an adverse effect.

- (2) All applications must be conducted or supervised by the holder of a certificate of qualification for pesticide application.
- (3) The application must not result in the deposit of pesticides into or onto any open body of water except in accordance with subsection 16(11).
- (4) Applications must not be made within 250 metres upstream of any surface water intake of a waterworks system.
- (5) Aerial applications of pesticides to land must not be conducted while flying directly over an open body of water.

## **Herbicide Application Within 30 Horizontal Metres of an Open Body of Water**

- (6) Herbicides must not be deposited within 30 horizontal metres of an open body of water unless the herbicide application is conducted as part of an integrated vegetation management program with the objective of controlling target vegetation in accordance with the document *Herbicide Applications Conducted Within 30 Horizontal Metres of Water Under the Environmental Code of Practice for Pesticides* published by the Department;
- (7) Herbicides must not be deposited on areas that have slumped, been washed out or are

subject to soil erosion into the water body.

- (8) Applicators may apply the herbicides listed in Table 1 provided that
- (a) herbicides are not deposited closer than 1 horizontal metre from an open body of water;
  - (b) applications are conducted for the control of herbaceous plants classified as "restricted" or "noxious" weeds under the *Weed Control Act*;
  - (c) applications are made selectively using a backpack sprayer, a pump-sprayer, a hand-gun sprayer, or an application method that treats individual plants;
  - (d) no more than 10 percent of any 100 square metres in the zone 1 – 5 metres from an open body of water receives treatment in any calendar year; and
  - (e) the federal pesticide label does not stipulate a greater distance from water. Where a federal pesticide label indicates that the herbicide must not be applied a greater distance than 1 horizontal metre from an open body of water, the product label must be followed.

**Table 1**

chlorsulfuron clopyralid glyphosate metsulfuron-methyl triclopyr (when used up to a maximum application rate of 1.92 kg ai/ha)
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- (9) Applicators may apply the herbicides listed in Table 1 or Table 2 provided that
- (a) herbicides in Table 2 are not deposited closer than 5 horizontal metres from an open body of water;
  - (b) applications are conducted for:
    - (i) the control of herbaceous plants classified as "restricted" or "noxious" weeds under the *Weed Control Act*; or
    - (ii) the control of woody plants to areas where the woody plants interfere with forest regeneration or the safe operation, functioning, or maintenance of man-made structures such as dams, canals, drainage ditches, roads, industrial facilities, or utility or pipeline rights-of-way using single-stem application methods;
  - (c) applications are made selectively using a backpack sprayer, a pump-sprayer, a hand-gun sprayer, a boom or boomless sprayer, or an application method that treats individual plants;
  - (d) no more than 30 percent of any 100 square metres in the zone 5-30 metres from an open body of water receives treatment in any calendar year; and
  - (e) the federal pesticide label does not stipulate a greater distance from water. Where a federal pesticide label indicates that the herbicide must not be applied a greater distance than 5 horizontal metres from an open body of water, the product label must be followed.

**Table 2**

2,4-D (when used up to a maximum application rate of 1.2 kg active ingredient per hectare)
dicamba (when used up to a maximum application rate of 1.2 kg active ingredient per hectare)
dichlorprop (when used up to a maximum application rate of 1.2 kg active ingredient per hectare)
MCPA (when used up to a maximum application rate of 0.675 kg active ingredient per hectare)
triclopyr

(10) Applicators may apply herbicides for specific vegetation management situations as follows provided that the federal pesticide label does not stipulate a greater distance from water. Where a federal pesticide label indicates that the herbicide must not be applied a greater distance from an open body of water than the distances specified below, the product label must be followed.

- (a) **Purple Loosestrife** (*Lythrum salicaria*) may be treated with triclopyr or glyphosate applied selectively by backpack or hand-pump sprayer to purple loosestrife growing on dry land provided that:
  - no herbicide is deposited closer than 1 horizontal metre from standing water; and
  - no more than 10 percent of any 100 square metres of land closer than 1 metre from an open body of water receives treatment in any calendar year.
- (b) **Forest Regeneration Sites** may be treated with glyphosate applied selectively or non-selectively by aircraft or ground equipment provided that glyphosate is not deposited within 5 horizontal metres from an open body of water.
- (c) **Non-Vegetated Developed Areas** such as maintained trails, roads, vehicle parking lots, railway ballasts, and industrial sites such as flare stacks, pump sites, equipment yards, and electrical substations may be treated with glyphosate selectively or non-selectively by ground application equipment over the entire area that is to be maintained non-vegetated.
- (d) **Railway Ballasts** may be treated with imazapyr provided that no herbicide is deposited within 15 horizontal metres of an open body of water.
- (e) **Shoreline Rip-Rap** may be treated with glyphosate provided that:
  - (i) no herbicide is deposited closer than 1 horizontal metre from an open body of water; and
  - (ii) no more than 30 percent of the land within any 100 square metres of the treatment area receives treatment in any calendar year.

(11) A product that contains the active ingredient diquat registered for aquatic vegetation management may be used within a private man-made recreational lake that is under the control of a homeowner's or resident's association in a residential development provided that:

- (a) there is no discharge from the lake beyond the property limits of the development;
- (b) applications must be conducted by the holder of an Aquatic class applicator certificate;
- (c) public notification of each application must be provided between 2 and 14 days prior to the commencement of the application as follows:
  - (i) a notice identifiable to the public must be posted at all public access points to the lake;
  - (ii) a written notice of each application must be provided to all residents of property adjoining the lake; and
  - (iii) following the application, signs must be posted at each application site and at all public access points to the lake indicating the application has taken place. The signs must remain in place for a minimum of 48 hours after the application;
- (d) during any application, the lake must be closed to public use; and
- (e) no swimming or wading must occur in areas treated for a period of at least 48 hours from the completion of the application.

### **Insecticide Application Within 30 Horizontal Metres of an Open Body of Water**

- (12)(a) Insecticides listed in Table 3 may be deposited up to the bed and shore of an open body of water provided:
- (i) the federal pesticide label does not stipulate a greater distance from water. Where a federal pesticide label indicates that the insecticide must not be applied a specified distance from an open body of water, the product label must be followed.
  - (ii) the insecticide does not enter into or onto an open body of water.

<p><b>Table 3</b></p>
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<p><i>Bacillus thuringiensis</i>, insecticidal soap, insecticides or insect growth regulators applied by direct injection, banding, or basal spray</p>
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- (b) Insecticides may be used for structural pest control purposes on the interior and the exterior of buildings in accordance with label directions.

### **Rodenticide Application Within 30 Horizontal Metres of an Open Body of Water**

(13) Rodenticides may be applied up to the bed and shore of an open body of water provided:

- (a) the federal pesticide label does not stipulate a greater distance from water. Where a federal pesticide label indicates that the rodenticide must not be applied a specified distance from an open body of water, the product label must be followed.
- (b) the rodenticide does not enter into or onto an open body of water and non-target organisms are not effected.

### **Pesticide Vendors - Sales for Acreage and Hobby Greenhouse Use**

**17** The holder of a retail vendor registration may sell the following pesticides listed in Schedule 2 of the *Pesticide (Ministerial) Regulation* (A.R. 43/97) for the following purposes to the owner of an acreage or an operator of a hobby greenhouse:

- (a) glyphosate for the management of vegetation in shelterbelts and non-cropland areas such as fencerows, parking areas, and driveways;
- (b) 2,4-D alone or in combination with either dicamba or mecoprop, or both, for the management of broadleaf weeds in turf;
- (c) chlorophacinone for the management of ground squirrels in livestock pastures;
- (d) oxine benzoate (No-Damp) for the management of fungal diseases on plants in greenhouses;
- (e) *Bacillus thuringiensis* for the management of mosquitoes and caterpillar insect pests;
- (f) products for aquatic weed or algae control in dugouts;
- (g) dichlobenil (Casoron) for the management of vegetation in woody ornamentals, shelterbelts and small fruits such as saskatoons, blueberries, and raspberries; or
- (h) a pesticide for a purpose authorized in writing by the Director.

### **Pesticide Vendors - Pesticides Requiring Information at Time of Sale**

**18** The holder of a retail vendor registration shall provide the following publications to any person purchasing pesticides in accordance with section 21 of the *Pesticide Sales, Handling, Use and Application Regulation* (A.R. 24/97):

- (a) for the purchaser of a vertebrate toxicant listed in Schedules 1 or 2 of the *Pesticide (Ministerial) Regulation* (A.R. 43/97), the most recent edition of *Vertebrate Toxicants for Richardson Ground Squirrel Control*, published by Alberta Environment, or a copy of a publication deemed equivalent by the Director;
- (b) for the purchaser of a fumigant containing aluminum phosphide for grain bin fumigation, the most recent edition of *Procedures for Grain Bin Fumigation*, published by Alberta Environment, or a copy of a publication deemed equivalent by the Director;
- (c) for the purchaser of a fumigant containing nicotine, parathion or sulfotep for greenhouse fumigation, the most recent edition of *Procedures for Greenhouse Fumigation*, published by Alberta Environment, or a copy of a publication deemed equivalent by the Director;
- (d) for the purchaser of a pesticide listed in Schedule 1 of the *Pesticide (Ministerial) Regulation* (A.R. 43/97), other than those listed above, the most recent edition of *Schedule 1 Pesticide: Notice to Purchasers*, published by Alberta Environment, or a copy of a publication deemed equivalent by the Director.

## **Code Amendment**

**19** This Code of Practice will be reviewed a minimum of every five years. Alberta Environment will accept and compile written comments on the contents of this Code at any time, and will review all comments received at the next review. The Director may institute a review and amendment of this Code of Practice at any time. All proposed amendments to this Code will be made available for review by persons directly affected by changes to the Code and the interested public. The Director shall have the final decision on amendments made to this Code of Practice. Amendments to this Code of Practice shall become effective when published by Alberta Environment.

## **Effective Date**

**20** This Code of Practice is effective June 12, 2001.

APPENDIX "A"

TRAINING CHECKLIST  
FOR PESTICIDE APPLICATOR ASSISTANTS

ASSISTANT'S NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

CERTIFICATION CLASS(ES):

- \_\_\_\_\_ AERIAL
- \_\_\_\_\_ AGRICULTURE
- \_\_\_\_\_ AQUATIC
- \_\_\_\_\_ FORESTRY
- \_\_\_\_\_ STRUCTURAL
- \_\_\_\_\_ FUMIGATION
- \_\_\_\_\_ GREENHOUSE
- \_\_\_\_\_ INDUSTRIAL
- \_\_\_\_\_ LANDSCAPE
- \_\_\_\_\_ BITING FLY
- \_\_\_\_\_ OTHER (please specify) \_\_\_\_\_

I, \_\_\_\_\_, with certificate \_\_\_\_\_  
(name of certified applicator) (certificate #)  
have thoroughly covered with the assistant, the subject areas listed below (directly related to the certification class(es) indicated above) and believe that the assistant is competent to perform supervised pesticide applications in this (these) certification class(es):

- (a) personal protection, including:
  - (i) pesticide entry into the body, and
  - (ii) protective equipment use and maintenance;
- (b) pesticide labels, including:
  - (i) precautions,
  - (ii) directions for use,
  - (iii) limitations,
  - (iv) first aid, and
  - (v) storage;
- (c) equipment, including:
  - (i) calibration,
  - (ii) proper use and maintenance, and
  - (iii) clean-up;
- (d) pest identification;

- (e) legislation, including:
  - (i) approval requirements for applications near water,
  - (ii) transportation,
  - (iii) waste disposal,
  - (iv) container disposal, and
  - (v) record keeping;
  
- (f) emergency response, including:
  - (i) spill clean-up and reporting,
  - (ii) fire and theft,
  - (iii) first aid; and
  
- (g) complaint handling.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of certified applicator

I have reviewed and understood the information as noted above, and believe that I am competent to perform pesticide applications in the certification classes noted above.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of assistant or authorized assistant