

Integrated Pest Management Plan

Facilities Management, Concordia University

1. Introduction

Pests are populations of living organisms (animals, plants, or microorganisms) that interfere with security, human health, survival of trees and shrubs or animal life.

Integrated Pest Management (IPM) is an approach that establishes a sustainable approach to managing pests by combining biological, cultural, physical and chemical tools in a way that minimizes economic, health and environmental risks. Applying IPM principles discourages unacceptable levels of pest activity and damage by the most economical means and with the least possible hazard to people, property and the environment.

Concordia University strives to keep any use of pesticides to a minimum while ensuring balanced protection of human, horticultural and environmental health. To accomplish this, the principles of IPM are utilized on its campus.

2. Purpose

This plan outlines procedures to be followed to protect the health and safety of the university physical environment, staff, students and visitors from pest and pesticide hazards. The plan is designed to comply with the regulations of the City of Montreal

- *Règlement sur l'utilisation des pesticides (04-041)*
- *Règlement sur l'extermination (E-8)*

As per the *Règlement sur l'utilisation des pesticides (04-041)*, the university's campuses are located in an area designated as a sensitive zone by the City of Montreal, therefore outdoor pesticide use is forbidden. In situations deemed as emergency or dangerous to human health, pesticides may be used with an obligation to report to the City and obtain approval from a City inspector prior to pesticide application. Indoor pesticide use may only be applied by a licensed exterminator.

Objectives of this IPM plan include:

- Elimination of significant threats caused by pests to the health and safety of students, staff, faculty, visitors and the public.
- Prevention of loss or damage to structures or property by pests.
- Protection of environmental quality inside and outside buildings.

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3. Definitions

Definitions are in accordance with the *Règlement sur l'utilisation des pesticides (04-041)* and the *Règlement sur l'extermination (E-8)*

Action Threshold: refers to the population level for a specific pest at which some control measure is justified in order to avoid economic loss, aesthetic damage to a crop or danger to human health.

Exterminator: An exterminator that is licensed by the Ministère du Développement durable, de l'Environnement et de la Lutte contre les changements climatiques (MDDELCC)

Integrated Pest Management (IPM): refers to an effective and environmental sensitive approach to pest management that seeks to minimize the use of chemical pesticides by avoiding, monitoring, preventing and suppressing pests through a combination of control methods designed to protect people and the environment from unnecessary use of chemicals.

Integrated Pest Management Coordinator(s): refers to the Concordia employee(s) designated as responsible for the implementation and enforcement of the Integrated Pest Management program.

Pests: living organisms (animals, bugs, plants, rodents or microorganisms) that interfere with use of the university site for human purposes. They can pose a threat to people, property or the environment.

Pesticide: refers to substances or mixtures of substances that prevent, destroy or mitigate pests, or defoliate, desiccate or regulate plants. The term pesticides shall include:

- Anti-microbials (i.e. bleach)
- Fungicides
- Herbicides
- Insecticides
- Rodenticides

University: refers to Concordia University.

4. Role & Responsibilities

When a pest problem is encountered, the IPM Coordinator within Facilities Management will be contacted.

4.1 Custodial Services

4.1.1. Manager, Custodial Services

- Acts as the IPM Coordinator at the University for indoor and outdoor spaces.
- Coordinates with an accredited provider to decide on acceptable intervention/action thresholds and regulate any pest problems;

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- Carries out internal procedures based on IPM Steps listed at Section 5 below.

4.2 Environmental Health and Safety (EHS)

4.2.1. Health and Safety Manager

- If chemical pesticide intervention is required, Health and Safety Manager is contacted and conducts a risk assessment of pesticides before use;
- Ensures that appropriate governmental approvals are obtained, if and when necessary, and communicates with the appropriate governmental employees when appropriate;
- Provides safety recommendations, if required, (including Personal Protective Equipment and application recommendations) for the pest management product to be used.

5. IPM Steps

5.1 Identification and surveillance

Careful monitoring of existing problems can help identify pest populations. As soon as a pest problem has been identified, proper action must be taken to ascertain the pest's life cycle, to know under what conditions damage occurs, and to determine if and when action threshold levels are reached.

5.2 Intervention/Action Thresholds

Estimate pest populations and compare to established action thresholds (determine if it is an infestation). Factors considered in setting established action thresholds include health and safety, public opinion, and aesthetic concerns.

5.3 Tactic / procedure evaluation

Selection of appropriate management tactic(s) based on an evaluation of the area, the pest organism, the impact it has on the host species, size and topography of the area, proximity to environmentally or culturally sensitive areas, cost, timing, governmental regulation and any other relevant factors.

- 5.3.1. If the situation is not deemed as an emergency then natural and benign methods must be used. Custodial Services will be the first responder to any sighting. If appropriate, the exterminator will be called in.
- 5.3.2. If the situation is deemed as an emergency then chemical pesticides may be used by the exterminator. Prior to pesticide application the exterminator is responsible for providing a list of the products that will be used to the IPM Coordinator.
- 5.3.3. The IPM Coordinator will inform the Health and Safety Manager about the situation in order for a safety assessment to be conducted.

5.4 Assessment

Assess effectiveness of pest management techniques. Determine whether or not the pest population has been brought below an acceptable threshold as defined by the appropriate IPM Coordinator. If not, repeat Step 5.3.

5.5 Tracking

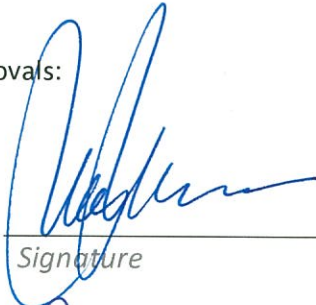
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Keep appropriate records, including date, nature of the event, and, if needed, name and quantity of pesticide used. Keep Material Safety Datasheet for future reference as well.

6. Signature

This SOP requires the following approvals:

Michel Nadeau
Associate Vice-President
Facilities Management



Signature

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Date

Pietro Gasparini
Director
Environmental, Health & Safety



Signature

20170519

Date

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