



Contra Costa County
Integrated Pest Management Plan

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Introduction

This integrated pest management (IPM) plan was developed for the Contra Costa County Department of Public Works to meet the requirements of the County's IPM Policy.

All services performed under this structural pest management plan will adhere to the strictest standards set by the County, EcoWise & Green Shield Certified IPM certifications.

This document describes in detail the IPM plan for County locations. It describes the ecosystem-based strategy that will be employed to achieve long-term prevention of pests or their damage through a combination of techniques such as biological control, habitat manipulation, modification of cultural practices, and use of resistant varieties. Pesticides will be used only after monitoring indicates that they are needed according to established guidelines, and treatments will be made with the goal of removing only the target organisms. Pest control materials are selected and applied in a manner that minimizes risks to human health, to beneficial and non-target organisms, and to the environment.

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Section A: Pest Monitoring Program

Each of Pestec's ongoing service inspections will monitor for pest activity, building conditions, and provide recommendations to reduce pest sources, attractants, and access into Contra Costa County (CCC) properties.

Initial Service

The Pestec service representative will input into a handheld device the list of area's to be monitored in and around the building and any deficiencies or pest sightings found in those areas. Pestec will generate a list of "open" conditions, called a Deficiency Report, which will be emailed to Public Works and the IPM Coordinator for correction at the beginning of every month.

To assist with communication and coordination with CCC, Pestec will generate a punch-list of photos to accompany the conditions report. This punch-list will be updated with the renewal of this contract.

Ongoing Service

During each regular service visit Pestec will inspect areas with a (<1) threshold, areas with pest sightings reported, where there is a history of pest activity, and all monitoring devices. Activity identified will be recorded by area name and sub-name, or by device name and number.

Conditions

The "open" conditions will be subsequently inspected to update the status of the condition from "open" to "resolved" or "void" if other pest management measures are implemented, or left "open" if the condition has not been resolved.

Condition Priorities:

- High priority: conditions that are directly contributing to pest activity.
- Medium priority: conditions that are very likely to contribute to pest activity soon.
- Low priority: conditions that are conducive to pests.

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Proposed Monitoring Devices:

<p>Bell labs insect monitor</p> 	<p>Kness Ant no more bait station</p> 	<p>Ez conceal insect station</p> 	<p>W.H.Y traps</p> 
<p>Evo express exterior multi-purpose IPM station</p> 	<p>Victor Rodent traps</p> 	<p>Kness Snap E Cover</p> 	<p>Detex block</p> 
<p>Uv Fly lights</p> 	<p>IBS Insect bait stations</p> 	<p>Protecta Evo Tunnel</p> 	<p>PFT In Ground Station</p> 
<p>Bell labs IQ Sensing tray</p> 	<p>Bell labs IQ T-Rex</p> 	<p>Pestec Ant Station</p> 	<p>Evictor Wildlife Hazer</p> 

All service data will be recorded in digital format in the Pestpac Mobile Software System (IPM module) and records will be printed and kept in the log book or emailed to site contacts.

Section B: Description of Non-Chemical and Chemical Pest Control Methods for Key Pests

Pestec will provide non-chemical measures as our primary control, including: monitoring, source reduction, exclusion, trapping and manual removal. When these methods are insufficient in controlling an infestation, chemical methods will be used as a last resort. All pesticide applications comply with the EcoWise and Green Shield certification standards and pesticide notification requirements of CCC.

Please see attachments C. and D. for a complete list of all equipment and materials Pestec proposes to use to control pests at CCC properties. Please see below for treatment plans by key common pests.

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Ants

Pestec will monitor for ants and ant trails. If found, Pestec will wipe up any ant trails found indoors or vacuum trails followed by spot caulking of entry holes and will make recommendations of more pest exclusion/source reduction measures. If necessary, Pestec will apply containerized baits or non-containerized baits to control ants.

Products: Kness Liquid Ant Bait Stations, Evo Express Multi-Purpose Bait Station, Advion Ant Gel, Advion Fire Ant Bait, Advion Insect Granule, Dominant Liquid Ant Bait, Dominant RTU Bait Station, InTice Thiquid Ant Bait, Invict AB Insect Paste, Maxforce Complete Granular Insect Bait, Maxforce Quantum Ant Bait, Niban Fine Granular Bait, Niban Granular Bait, Optigard Ant Gel, Terro PCO Liquid Ant Bait, Terro PCO Ant Bait Station, Maxforce Fleet Ant Gel

Ant Action Plan

Threshold	Monitoring Method	Action Level	Pest Management Actions
Level One Monitoring	Visual inspection of trapper monitors and exterior bait stations	Monitoring	-Visually inspect areas for ant activity -Make recommendations to abate any sources with the potential to attract ants
Level Two Ant Sightings	Visual sighting of ants by Pestec or CCC staff	Removal and Source Reduction	-Clean any ant trails -Use caulk to seal any points of entry -Identify sources of attractions and make recommendations to abate -Install and maintain exterior ant bait stations
Level Three Ant Infestation	Visual sighting of moderate to high level of ants by Pestec or CCC staff	Removal and Baiting	-Clean up ant trails -Install short-term interior ant bait stations and/or non-containerized bait into cracks and crevices -Spot treatment of ant nests with IPM detergent

Cockroaches

Pestec will identify sources of water and food for cockroaches and make recommendations for remediation. Cockroaches will be removed physically with HEPA vacuums.. Cracks and crevices where they harbor or enter will be sealed or recommended for sealing. Containerized baits will be applied when necessary and if pest activity persists and non-containerized gel baits will be applied.

Products: Bell Labs Insect Monitors, EZ Conceal Insect Station, Advion Cockroach Gel, Alpine CR Gel Bait Rotation 1, Invict AB Insect Paste, Maxforce Complete Granular Insect Bait, Maxforce Impact Roach Bait Gel, Niban Fine Granular Bait, Niban Granular Bait

Cockroach Action Plan

Threshold	Monitoring Method	Action Level	Pest Management Actions
Level One Monitoring	Inspection of sticky traps throughout facility	Monitoring	-Visual Inspection for cockroaches - Make recommendations for prevention of cockroach infestation by reducing food sources and points of access -Exterior pitfall traps for outdoor species monitoring
Level Two Cockroach Sightings	Visual sighting of roaches by Pestec or CCC staff	Removal and Source Reduction	-Make recommendations for abating pest sources - Seal cracks and crevices that provide harborage - Install additional sticky traps - Install containerized bait stations
Level Three Cockroach Infestation	Visual sightings of moderate to high levels of roaches by Pestec or CCC staff	Removal and Baiting	-Vacuum any cockroaches present -Install non-containerized gel bait as needed -application of exterior granular bait for outdoor species

Flies

Pestec will monitor for fly activity and make recommendations to reduce their potential harborage areas. If fly activity is found, an inspection will be done to determine the source of the infestation and make recommendations for sanitation or removal as well as install fly traps.

Where approved sanitation services may be provided according to the [Nisus fly protocol](#).

Product: Fly Bags, Gentrol IGR Aerosol, Nibor-D, Profoam, Nisus - Disinfectant, Sanitizer, Virucide (DSV), Invade Bio Cleaner

Fly Action Plan

Threshold	Monitoring Method	Action Level	Pest Management Actions
Level One Monitoring	Visual Inspection	Monitoring	-Visual inspection -Make recommendations to abate sources and attractants
Level Two Fly Sightings	Visual sightings of fly activity by Pestec or CCC staff	Source Reduction and Mechanical Control	-Inspection to determine source of infestation -Removal/cleanup of sources manually or with microbial cleaners (drains) -Installation of fly traps; sticky, bag, and/or fly lights depending on severity
Level Three Fly Infestation	Moderate to high levels of fly activity found by Pestec or CCC staff	Mechanical Control	-Installation of oscillating or overhead fans -Installation of air curtain

Commensal Rodents

Trapping and exclusion shall be the primary rodent control method for protecting the interior of County buildings. Openings allow rodents to enter buildings and other conditions that cause them to proliferate will be identified and reported to CCC staff for repairs. Rodents already on site will be controlled through the use of snap traps.

Products: Victor Snap Traps with Extended Triggers, Evo Express Station, T-rex traps, Protecta Evo tunnel, Snap-e Cover Mouse Station, Bell Labs IQ Sensing Smart Traps and Trays, Woodstream V-Link Traps.

Rodent Action Plan

Threshold	Monitoring Method	Action Level	Pest Management Actions
Level One Monitoring	Visual inspection of rodent trapping stations	Monitoring	-Inspect rodent trapping stations for rodent activity -Make recommendations to abate sources and attractants -Make recommendations for exclusion
Level Two Rodent Sightings	Visual sightings of rodents or rodent activity by Pestec or CCC staff	Trapping and Habitat Modification	-Remove caught rodents from traps -Remove fecal matter and nesting sites -Organize clutter and/or seal interior runways
Level Three Rodent Infestation	Moderate to high level of rodent activity found by Pestec or CCC staff	Trapping and Structural Modification	-Remove dead rodents from traps and rodent activity -Mass night time rodent trappings -Provide exterior pest exclusion with CCC approval

Bed Bugs

On-going monitoring for bed bugs will occur through the use of sticky traps. If bed bugs are found, treatment service will be offered on a per-call basis. Treatment services will include installation of bed barriers, manual removal of the bed bugs through vacuuming and steam treatment, chemical control with cedarcide or thermal remediation.

Products: Oh Yeah! IPM Detergent, Best Yet Cedarcide, Cimexa Insecticide Dust.

Bed Bug Action Plan

Threshold	Monitoring Method	Action Level	Pest Management Actions
Level 1 Monitoring	Visual inspection and service to sticky traps	Monitoring	<ul style="list-style-type: none">- Inspect sticky traps in common areas, storage rooms, and sitting areas where bed bugs may be reasonably encountered- Investigate any claims of insect bites by tenants
Level 2 Low Infestation	Visual sightings of low level of bed bugs by Pestec or CCC staff	Inspection and Non-Chemical Spot Treatment	<ul style="list-style-type: none">- Removal of bed bugs through vacuuming or with sticky tape- Steam treatment of bed bug harborages areas: furniture, floor/wall, etc. edges, bags- Thermal chamber treatment of non-wettable items: books, documents, etc.
Level 3 High Infestation	Visual sightings of high level of bed bugs by Pestec or CCC staff	Site Modification and Chemical Treatment	<ul style="list-style-type: none">- Recommend removal of wooden and overstuffed furniture-Recommendation for organization changes to storage, working spaces- contact killing insecticides

Section C: Schedule of Service

Pestec will inspect interior and exterior areas, monitoring devices for pest activity, building deficiencies conducive to pest activity, and provide treatment and prevention services as necessary. All exterior devices will be serviced on every visit, while interior monitoring devices will be serviced every other visit. Any requests for service or reports of pest activity will be addressed immediately. If the recommended service frequency is higher than the current scheduled frequency, the contract supervisor will submit a written recommendation to the IPM Coordinator for approval

—schedule omitted from this version—

Section D: Description of Recommended Structural or Operational Changes

The attached inspection report for the Contra Costa Administration Building located at 1025 Escobar St, Martinez, CA 94553 provides specific structural and operational IPM recommendations. This report has been provided as an example only. An inspection report such as this will be generated upon completion of the initial IPM assessment inspection for each contracted location.

Section E: Contact Information

Service Technician: Alfred Jackson

Phone: (925) 890-8198

Email: alfred@pestecipm.com

Customer Service Representative: Maryam Rahman

Phone: (925) 757-2945

Email: maryam@pestecipm.com

Account Manager/Emergency Alternate Technician: Carlos Agurto

Phone: (415) 309-1770

Email: carlos@pestecipm.com

Antioch Branch Office

Phone: (925) 757-2945

Fax: (925) 755-2678

Mailing Address: P.O. Box 2393 Antioch, CA 94531

County IPM Coordinator: Wade Finlinson

Phone: (925) 655-3214

Email: Wade.Finlinson@cchealth.org

Public Works Department Contact: Dave Lavelle, Assistant Facilities Maintenance Manager

Phone: (925) 313-7024

Email: Dave.lavelle@pe.cccounty.us