

CULVER SCHOOL DISTRICT

INTEGRATED PEST MANAGEMENT PLAN

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I. INTRODUCTION

Structural and landscape pests can pose significant problems in schools. Pests such as mice and cockroaches can trigger asthma. Mice and rats are vectors of disease. Many children are allergic to yellow jacket stings. The pesticides used to remediate these and other pests can also pose health risks to people, animals, and the environment. These same pesticides may pose special health risks to children due in large part to their still-developing organ systems. Because the health and safety of students and staff is our first priority – and a prerequisite to learning – it is the policy of Culver School District No.4 to approach pest management with the least possible risk to students and staff. In addition, Senate Bill 637 (incorporated into ORS Chapter 634 upon finalization in 2009) requires all school districts to implement integrated pest management in their schools. For this reason, the Culver School Board adopts this integrated pest management plan for use on the campuses of our district.

II. WHAT IS INTEGRATED PEST MANAGEMENT?

Integrated Pest Management, also known as IPM, is a process for achieving long-term, environmentally sound pest suppression through a wide variety of tactics. Control strategies in an IPM program include structural and procedural improvements to reduce the food, water, shelter, and access used by pests. Since IPM focuses on remediation of the fundamental reasons why pests are here, pesticides are rarely used and only when necessary.

IPM Basics

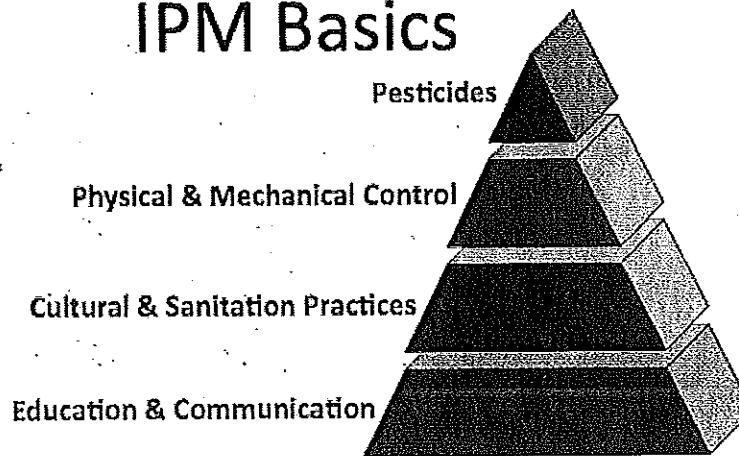
Education and Communication: The foundation for an effective IPM program is education and communication. We need to know what conditions can cause pest problems, why and how to monitor for pests, proper identification, pest behavior and biology before we can begin to manage pests effectively. Communication about pest issues is essential. *A protocol for reporting pests or pest conducive conditions and a record of what action was taken is the most important part of an effective IPM program.*

Cultural & Sanitation: Knowing how human behavior encourages pests helps you prevent them from becoming a problem. Small changes in cultural or sanitation practices can have significant effects on reducing pest populations. Cleaning under kitchen serving counters, reducing clutter in classrooms, putting dumpsters further from kitchen door/loading dock, proper irrigation scheduling, and over-seeding of turf areas are all examples of cultural and sanitation practices that can be employed to reduce pests.

Physical & Mechanical: Rodent traps, sticky monitoring traps for insects, door sweeps on external doors, sealing holes under sinks, proper drainage and mulching of landscapes, and keeping vegetation at least 24 inches from buildings are all examples of physical and mechanical control.

Pesticides: IPM focuses on remediation of the fundamental reasons why pests are here; pesticides should be rarely used and only when necessary.

IPM Basics



III. WHAT IS AN INTEGRATED PEST MANAGEMENT PLAN?

ORS 634.700 defines an IPM plan as a proactive strategy that:

(A) Focuses on the long-term prevention or suppression of pest problems through economically sound measures that:

- a) Protect the health and safety of students, staff and faculty;
- b) Protect the integrity of campus buildings and grounds;
- c) Maintain a productive learning environment; and
- d) Protect local ecosystem health;

(B) Focuses on the prevention of pest problems by working to reduce or eliminate conditions of property construction, operation and maintenance that promote or allow for the establishment, feeding, breeding and proliferation of pest populations or other conditions that are conducive to pests or that create harborage for pests;

(C) Incorporates the use of sanitation, structural remediation or habitat manipulation or of mechanical, biological and chemical pest control measures that present a reduced risk or have a low impact and, for the purpose of mitigating a declared pest emergency, the application of pesticides that are not low-impact pesticides;

(D) Includes regular monitoring and inspections to detect pests, pest damage and unsanctioned pesticide usage;

(E) Evaluates the need for pest control by identifying acceptable pest population density levels;

(F) Monitors and evaluates the effectiveness of pest control measures;

(G) Excludes the application of pesticides on a routine schedule for purely preventive

purposes, other than applications of pesticides designed to attract or be consumed by pests;

(H) Excludes the application of pesticides for purely aesthetic purposes;

(I) Includes school staff education about sanitation, monitoring and inspection and about pest control measures;

(J) Gives preference to the use of nonchemical pest control measures;

(K) Allows the use of low-impact pesticides if nonchemical pest control measures are ineffective; and

(L) Allows the application of a pesticide that is not a low-impact pesticide only to mitigate a declared pest emergency or if the application is by, or at the direction or order of, a public health official.

The above definition is the basis for our IPM plan. This plan fleshes out the required strategy from ORS 634.700 – 634.750 for Culver School District No.4.

Note: As mentioned above, ORS 634.700 allows for the routine application of pesticides designed to be consumed by pests. To avoid a proliferation of pests and/or unnecessary applications of pesticides, several steps must be taken before any "routine" applications are allowed:

- 1) Staff must be educated on sanitation, monitoring, and exclusion as the primary means to control the pest.
- 2) An acceptable pest population density level must be established.
- 3) The use of sanitation, structural remediation or habitat manipulation, or of mechanical or biological control methods must be incorporated into the management strategy of the pest.
- 4) Documentation that the above steps were ineffective.
- 5) The pesticide label must be read thoroughly to make sure the pesticide will be used in strict compliance with all label instructions.

IV. SCHOOL DISTRICT IPM PLAN COORDINATOR

Note: ORS 634.720 states that the Coordinator "must be an employee of the governed district, unit, school or entity, unless the governing body delegates pest management duties to an independent contractor."

The **Board** designates Bill Timoshuk as the IPM Plan Coordinator. The Coordinator is key to successful IPM implementation in the Culver School District, and is given the authority for overall implementation and evaluation of this plan. The Coordinator is responsible for:

A. Attending not less than six hours of IPM training each year

The training shall include at least a general review of IPM principles and the requirements of ORS 634.700 – 634.750.

B. Conducting outreach to the school community (custodians, maintenance, construction, grounds, faculty, and kitchen staff) about the school's IPM plan;

The IPM Plan Coordinator (or designee) will provide training as outlined in Section VII below.

C. Overseeing pest prevention efforts;

The Coordinator will work with custodians, teachers, and maintenance to reduce clutter and food in the classrooms, and seal up pest entry points.

D. Assuring that the decision-making process for implementing IPM in the district (section V) is followed;

The Coordinator will continually assess and improve the pest monitoring/reporting/action protocol.

E. Assuring that all notification, posting, and record-keeping requirements in section VI are met when the decision to make a pesticide application is made;

F. Maintaining the approved pesticides list as per section VIII; and

G. Responding to inquiries and complaints about noncompliance with the plan.

Responses to inquiries and complaints will be in writing and kept on record with the Coordinator.

V. IPM DECISION-MAKING PROCESS

A. Responsibilities of School District Employees

1. IPM Plan Coordinator Responsibilities

See Section IV above

2. Custodial Services Responsibilities

Custodial Services staff are responsible for the following:

1) Attending annual IPM training provided by the IPM Plan Coordinator (or designee).

2) Placing and checking sticky insect monitoring traps in staff lounge, cafeteria, and kitchen as per the IPM Plan Coordinator's instructions.

3) Keeping records of pest complaints using pest logs placed in the staff lounge, cafeteria, and kitchen.

- 4) Assuring floor under serving counters is kept free of food and drink debris.
- 5) Sealing up small cracks or holes when reported by teachers or noticed by custodian when this can be done in a short time (e.g. less than 15 minutes).
- 6) Recording his/her pest management actions in the pest logs.
- 7) Reporting pest problems that he/she cannot resolve in less than 15 minutes to the IPM Plan Coordinator.
- 8) Reporting teachers who repeatedly refuse to reduce clutter and other pest-conducive conditions in their classrooms to the IPM Plan Coordinator.
- 9) Reporting pest-conducive conditions to the IPM Plan Coordinator if the custodian cannot fix them in less than 15 minutes.
- 10) Confiscating any unapproved pesticides (such as aerosol spray cans) discovered during inspections or regular duties and delivering them to the IPM Plan Coordinator.
- 11) Following up on issues found in annual inspection reports as instructed by the IPM Plan Coordinator (IPM Plan Coordinator will determine which schools receive annual inspections based on pest and pesticide use history).

3. Maintenance/Construction Responsibilities

Staff involved in facilities maintenance and construction is responsible for working with the IPM Plan Coordinator to ensure their daily tasks, projects and operations enhance effective pest management. This includes:

- 1) Receiving training from the IPM Plan Coordinator (or designee of the Coordinator) on the basic principles of IPM, sealing pest entry points, and sanitation during construction projects.
- 2) Continually monitoring for pest conducive conditions during daily work, and sealing small holes and cracks when noticed (if they can be sealed in a short period of time).
- 3) Working with the Coordinator to develop a protocol and priority list with deadlines for sealing holes, installing external door sweeps, and other pest exclusion needs which cannot be done in a short period of time (e.g. 15 minutes).
- 4) Developing protocols and provisions for pest avoidance and prevention during construction and renovation projects. The IPM Plan Coordinator has the authority to halt construction projects if these protocols and provisions are not being met.

4. Grounds Department Responsibilities

Grounds crews are responsible for:

- 1) Attending annual IPM training provided by the IPM Plan Coordinator (or designee).
- 2) Keeping vegetation (including tree branches and bushes) at least three feet from building surfaces.
- 3) Proper mulching in landscaped areas to reduce weeds.
- 4) Proper fertilization, over-seeding, mowing height, edging, drainage, aeration, and irrigation scheduling in turf areas to reduce weeds (see OSU turf management publications EC 1521, EC 1278, EC1550, EC 1638-E, and PNW 299 - available free online at <http://extension.oregonstate.edu/catalog/>).
- 5) When the decision is made to apply a pesticide, following notification, posting, record-keeping and reporting protocols in Section VI.

5. Kitchen Staff Responsibilities

Kitchen staff are responsible for:

- 1) Attending annual IPM training provided by the IPM Plan Coordinator (or designee).
- 2) Assuring floor under serving counters is kept free of food and drink debris.
- 3) Promptly emptying and removing corrugated cardboard materials.
- 4) Keeping exterior kitchen doors closed.
- 5) Reporting pest conducive conditions that require maintenance (e.g., leaky faucets, dumpster too near building, build-up of floor grease requiring spray-washing, etc.) to proper staff either orally or using pest logs.
- 3) Participating in any inspections conducted by custodian or IPM Plan Coordinator.
- 4) Checking sticky trap monitors once per month for cockroaches or drain flies. Immediately reporting these pests and any sightings of rodents or rodent droppings to custodian and marking them in pest log.

6. School Faculty Responsibilities

School faculty are responsible for:

- 1) Attending annual basic IPM training provided by the IPM Plan Coordinator (or designee).

- 2) Keeping their classrooms and work areas free of clutter.
- 3) Making sure students clean up after themselves when food or drink is consumed in the classroom.
- 4) Reporting pests and pest conducive conditions to the custodian, either orally or via the pest logs.
- 5) Following first steps of protocol for ant management before notifying the custodian (clean up any food the ants are eating, kill visible ants, wipe down area where ants were with soapy water, notify custodian only if ants continue to be found after following these steps).

7. School Principal Responsibilities

The School Principal is responsible for:

- 1) Scheduling time for teachers to receive annual training provided by the IPM Plan Coordinator (or designee).
- 2) Attending annual IPM training for teachers.
- 3) Assuring that teachers keep their rooms clean and free of clutter in accordance with the IPM Plan Coordinator's instructions.
- 4) Assuring that all faculty, administrators, staff, adult students and parents receive the annual notice (provided by the IPM Plan Coordinator) of potential pesticide products that could be used on school property as per Section VI.
- 5) Working with the IPM Plan Coordinator to make sure all notifications of pesticide applications reach all faculty, administrators, staff, adult students and parents.
- 6) Assuring that all staff fulfill their role as outlined in the district's IPM plan (reducing pest conducive conditions, participation in monitoring and pest log recording, attendance at IPM training(s), cooperation with the district's IPM Plan Coordinator).

B. Monitoring – Reporting – Action Protocol

Monitoring is the most important requirement of ORS 634.700 – 634.750. It is the backbone of Culver's IPM Program. It provides recent and accurate information to make intelligent and effective pest management decisions. It can be defined as the regular and ongoing inspection of areas where pest problems do or might occur. Information gathered from these inspections is always written down.

As much as possible, monitoring should be incorporated into the daily activities of school staff. Staff training on monitoring should include what to look for and how to record and report the information.

1. Three levels of monitoring

There are three levels of monitoring:

- 1) Casual observing/looking with no record keeping is not helpful
- 2) Casual observing/looking with written observations can be useful
- 3) Careful inspections with written observations is always useful

Level 2 monitoring (all staff)

All staff will be trained to improve their "casual observing/looking" to level 2, and to report any pests and pest-conducive conditions they observe. Level 2 monitoring is conducted by faculty, administration, maintenance/construction, kitchen staff, school nurses, etc.

After a brief (15 – 20 minute) training by the IPM Plan Coordinator (or designee) on pests and pest conducive conditions, staff will be expected to report pests or pest conducive conditions they observe during the normal course of their daily work. Reporting will be done by jotting observations down in a Pest Log (placed in staff lounge and/or classrooms) or reporting them to the custodian for him/her to write them down. Custodial, maintenance, and kitchen staff are expected to set and/or check sticky monitoring traps as per the district's IPM plan.

Level 3 monitoring (Coordinator and Custodial staff)

The IPM Plan Coordinator (or designee) and Custodians will periodically conduct monitoring at level 3. Coordinator and Custodial staff will monitor structures:

- Pest conducive conditions inside and outside the building (structural deterioration, holes that allow pests to enter, conditions that provide pest harborage)
- The level of sanitation inside and out (waste disposal procedures, level of cleanliness inside and out, conditions that supply food and water to pests)
- The amount of pest damage and the number and location of pest signs (rodent droppings, termite shelter tubes, cockroaches caught in sticky traps, etc.)
- Human behaviors that affect the pests (working conditions that make it impossible to close doors or screens, food preparation procedures that provide food for pests, etc.)
- Their own management activities (caulking/sealing, cleaning, setting out traps, treating pests, etc.) and their effects on the pest population.

Level 3 monitoring (Grounds staff)

Grounds staff will monitor Turf and Landscape:

- The condition of the plants (vigor and appearance)

- The amount of plant damage
- pH, phosphorus, and potassium levels of turf (soil test every 3-4 years in suitable locations).
- Kind and abundance of pests (weeds, insects, mites, moles, etc.) as well as natural enemies (ladybugs, spiders, lacewing larvae, syrphid fly larvae, etc.)
- Weather conditions (record any unusually dry, hot, wet, or cold weather in the past few weeks)
- Proper drainage
- Human behaviors that affect the plants or pests (foot traffic that compacts the soil, physical damage to plants caused by people, insistence on having certain plants grow in inappropriate situations, etc.)
- Management activities (pruning, fertilizing, mulching, aeration, treating pests, etc.) and their effects on the plants and the pest population.

2. Sticky monitoring traps for insects

Sticky traps are neither a substitute for pesticides nor an alternative for reducing pest populations, but rather a diagnostic tool to aid in identifying a pest's presence, their reproductive stage, the likely direction pests are coming from, and the number of pests.

All staff will be made aware of the traps and their purpose so they don't disturb them. Custodians will be responsible for setting them out and checking them once per month (approximately 10 minutes), and replacing them once every four months (approximately 30 minutes). Kitchen staff will be responsible for checking those in the kitchen primarily for cockroaches and drain flies once per week (approximately 4 minutes).

After receiving training in the use of pest monitoring sticky traps by the IPM Plan Coordinator (or designee), custodial staff will be responsible for checking traps placed in pre-determined "pest-vulnerable areas" in the staff room, kitchen, and cafeteria (areas that are often pest-vulnerable are: special education or kindergarten classrooms, home economics/life skills classrooms, concession stands, classrooms with animals, plants, stuffed sofas or chairs, custodial closets/storage) on a monthly basis, and replacing them every four months. If custodial staff cannot interpret what they find in the monitors they will contact the IPM Plan Coordinator for assistance.

3. Reporting (pests, signs of pests, and conducive conditions)

When staff observe pests or pest conducive conditions they should jot them down in a Pest Log or report them to the custodian for him/her to write them down.

4. Reporting "Pests of Concern"

"A pest of concern" is a pest determined to be a public health risk or a significant

nuisance pest. These include cockroaches (disease vectors, asthma triggers), mice & rats (disease vectors, asthma triggers), yellow jackets (sting can cause anaphylactic shock), cornered nutria, raccoons, cats, dogs, opossums, skunks (they can bite), and bed bugs (significant nuisance pest).

When pests of concern (or their droppings, nests, etc.) are observed, staff should immediately tell the building custodian. The custodian must contact the IPM Plan Coordinator immediately.

5. Action!

a) Structural

Any items (such as sealing up holes) that maintenance/construction staff or custodial staff observe (or see on Pest Logs) that they can resolve in less than 15 minutes should be taken care of and noted in the Pest Log.

Custodial staff will review Pest Logs weekly. Any items he/she cannot resolve should be marked in order of priority.

Pest Logs will be delivered to the IPM Plan Coordinator twice per month. The Coordinator will determine further actions to be taken and when.

If the actions needed are not something the Coordinator can accomplish alone or with minimal assistance, the Coordinator will develop a protocol and priority list with deadlines for sealing holes, installing external door sweeps, and other pest exclusion or pest management needs. The Coordinator will then generate a work order with a proposed deadline for completion based on the severity of the risk or nuisance.

The Coordinator will keep records of time and money spent to manage the pest, including copies of original receipts.

Small Ants:

When staff observe a small number of ants (e.g. under 10 ants) they must:

- 1st) Spend two minutes trying to find out where the ants are coming from
- 2nd) Kill the ants with a paper towel or similar
- 3rd) Remove any food or liquid the ants were eating
- 4th) Wipe down the area with soapy water or disinfectant to remove pheromone trails
- 5th) Jot down the above in the Pest Log

If the ants come back or there are more than a small number (fewer than 10) of them:

- 1st) Spend two minutes trying to find out where the ants are coming from
- 2nd) Jot down the above in the Pest Log
- 3rd) Ask the custodian to come with vacuum and sealant as soon as he/she is able

The custodian will:

- 1st) Spend two minutes trying to find out where the ants are coming from
- 2nd) Vacuum up the ants and any food debris nearby (vacuum up a tablespoon of cornstarch to kill most of the ants in the vacuum bag, then put the vacuum bag inside plastic garbage bag, seal it, and dispose of it properly)
- 3rd) Seal up the crack or hole where the ants were coming from (do what can be done in fewer than 15 minutes).
- 4th) Wipe down the area with soapy water or disinfectant to remove pheromone trails
- 5th) Jot down the above in the Pest Log

To avoid a proliferation of small ants and/or unnecessary applications of pesticides, the routine use of ant baits is not permitted without first:

- 1st) Educating staff on sanitation, monitoring, and exclusion as the primary means to control the ants.
- 2nd) Establishing an acceptable pest population density (e.g. ten ants).
- 3rd) Improving sanitation (e.g. cleaning up crumbs and other food sources) and structural remediation (sealing up cracks or holes where the ants are coming from).

For more detailed information on small ants, see Appendix 1a.

b) Grounds

When pests on grounds reach a threshold established by the Grounds staff and the IPM Plan Coordinator, action will be taken as per the matrices in Appendix 1-f.

6. Acceptable Thresholds (pest population density levels)

A threshold is the number of pests that can be tolerated before taking action. The acceptable threshold for cockroaches, mice, rats, raccoons, cats, dogs, opossums, skunks, and nutria is 0.

Acceptable thresholds for other pests will be determined by the IPM Plan Coordinator and the School Board.

C. Inspections

1) Routine Inspections

The IPM Plan Coordinator will conduct routine inspections of different schools throughout the year (schedule and schools to be determined by the Board and the Coordinator). Site custodians are required to accompany the Coordinator during the inspections. The inspections will typically last one to two hours and will focus on compliance with this plan and an inspection of the kitchen, staff room, and any other

place of concern. After each routine inspection the Coordinator will write a one-page report on findings and recommendations. The report will be submitted to the school principal and custodian.

2) Annual Inspections

The IPM Plan Coordinator will conduct annual inspections at individual schools. Site custodians are required to assist the Coordinator with the annual inspection. The annual inspections will be more thorough than the routine inspections, and will use the Annual IPM Inspection Form (see Appendix 2) to guide the inspections. The specific schools to be inspected will be determined by the IPM Plan Coordinator and the School Board based on a review of the annual number of pest problems and pesticide applications reported in the Annual IPM Report and Annual Report of Pesticide Applications.

D. Pest Emergencies (see also Section VII. B. below)

IMPORTANT: If a pest emergency is declared, the area must be evacuated and cordoned off before taking any other steps. When the IPM Plan Coordinator, after consultation with school faculty and administration, determines that the presence of a pest or pests immediately threatens the health or safety of students, staff, faculty members or members of the public using the campus, or the structural integrity of campus facilities, he or she may declare a pest emergency. Examples include (but are not limited to) yellow jackets swarming in areas frequented by children, a nutria in an area frequented by children, a half a dozen mice or rats running through occupied areas of a school building.

E. Annual IPM Report (completed by IPM Plan Coordinator)

In January of each year, the IPM Plan Coordinator will provide the School Board and the OSU School IPM Program Coordinator an annual IPM report. The report will include a summary of data gathered from Pest Logs, as well as costs for PMPs and pesticides (including turf and landscape pesticides). Costs for items such as sealants, fixing screens, door sweeps and other items that would not normally be considered part of pest control will not be recorded. See Appendix 9 for a template for the annual IPM report.

Prevention and management steps taken that proved to be ineffective and led to the decision to make a pesticide application will be copied and pasted or incorporated into the annual report of pesticide applications (see section VII. D)

VI. REQUIRED TRAINING/EDUCATION

ORS 634.700 (3) (i) requires staff education "about sanitation, monitoring and inspection and about pest control measures". All staff should have at least a general review of IPM principles and strategy as outlined in Sections II and III.

A. IPM Plan Coordinator Training

ORS 634.720 (2) requires that the IPM Plan Coordinator "shall complete not less than

six hours of training each year. The training shall include at least a general review of IPM principles and the requirements of ORS 634.700 to 634.750."

Content should include health and economic issues associated with pests in schools, exclusion practices, pest identification and biology for common pests, common challenges with monitoring-reporting-action protocols, proper use of sticky monitoring traps for insects, and hands-on training on proper inspection techniques.

Contact your Education Service District or the OSU School IPM Program for information on OSU-approved training courses.

B. Training for Custodial Staff

The IPM Plan Coordinator (or a designee of the Coordinator) will train custodial staff at least annually on sanitation, monitoring, inspection, and reporting, and their responsibilities as outlined in Section V. A.

C. Training for Maintenance and Construction Staff

The IPM Plan Coordinator (or a designee of the Coordinator) will train maintenance staff at least annually on identifying pest conducive conditions and mechanical control methods (such as door sweeps on external doors and sealing holes under sinks), and their responsibilities as outlined in Section V. A.

D. Training for Grounds Staff

The head of grounds staff (or designee) will train grounds staff at least once per year. Each year before the training, the head of grounds staff will meet with the IPM Plan Coordinator to review the annual report of pesticide applications and plan training for all grounds staff. The annual training will review this IPM Plan (especially grounds department responsibilities outlined in Section V.A.) and data from the annual report related to pesticide applications by grounds crew. It will also review the OSU turf management publications EC 1521, EC 1278, EC 1550, EC 1638-E, and PNW 299 (available free online at <http://extension.oregonstate.edu/catalog/>), and the matrices in Appendix 1-g. Grounds staff will also be trained in basic monitoring for common pests on grounds.

E. Training for Kitchen Staff

The IPM Plan Coordinator (or a designee of the Coordinator) will train kitchen staff at least once per year on the basic principals of IPM and their responsibilities as outlined in Section V. A.

F. Training for Faculty and Principal

The IPM Plan Coordinator (or a designee of the Coordinator) will train faculty and principals at least once per year on the basic principals of IPM and their responsibilities as outlined in Section V. A. These short (15 – 20 minutes) training are arranged by the Coordinator with individual principals when openings in their school Faculty Meeting schedules permit.

G. Other Training

Basic training on the principals of IPM and the main points of this IPM Plan should also be provided to school nurses, administrative staff, superintendents, and students. Coaches who use athletic fields should be given an overview of basic monitoring and IPM practices for turf so they understand key pest problems to look out for and when to report them.

VII. PESTICIDE APPLICATIONS: REQUIRED NOTIFICATION, POSTING, RECORD KEEPING, AND REPORTING

Any pesticide application (this includes weed control products, ant baits, and all professional and over-the-counter products) on school property must be made by a licensed commercial or public pesticide applicator. At the beginning of each school year, all faculty, administrators, staff, adult students and parents will be given a list of potential pesticide products that could be used in the event that other pest management measures are ineffective. They will also be informed of the procedures for notification and posting of individual applications, including those for pest emergencies. This information will be provided to all the above via email as well as hard copy to adult students and parents.

A. Notification and Posting for Non-emergencies

When prevention or management of pests through other measures proves to be ineffective, the use of a low-risk pesticide is permissible. *Documentation of these measures is a pre-requisite to the approval of any application of a low-risk pesticide. This documentation will remain on file with the IPM Plan Coordinator and at the office of the custodian responsible for the area where the application took place .*

No non-emergency pesticide applications may occur in or around a school until after 3:30 PM on a Friday when school is in session, unless the IPM Plan Coordinator authorizes an exception. If the labeling of a pesticide product specifies a reentry time, a pesticide may not be applied to an area of campus where the school expects students to be present before expiration of that reentry time. If the labeling does not specify a reentry time, a pesticide may not be applied to an area of a campus where the school expects students to be present before expiration of a reentry time that the IPM Plan Coordinator determines to be appropriate based on the times at which students would normally be expected to be in the area, area ventilation and whether the area will be cleaned before students are present.

The IPM Plan Coordinator (or a designee of the Coordinator) will give written notice of a proposed pesticide application at least 24 hours before the application occurs.

The notice must identify the name, trademark or type of pesticide product, the EPA registration number of the product, the expected area of the application, the expected date of application and the reason for the application.

The IPM Plan Coordinator (or a designee of the Coordinator) shall place warning signs

around pesticide application areas beginning no later than 24 hours before the application occurs and ending no earlier than 72 hours after the application occurs.

A warning sign must bear the words "Warning: pesticide-treated area", and give the expected or actual date and time for the application, the expected or actual reentry time, and provide the telephone number of a contact person (the person who is to make the application and/or the IPM Plan Coordinator).

B. Notification and Posting for Emergencies

Important Notes:

- 1) *The IPM Plan Coordinator may not declare the existence of a pest emergency until after consultation with school faculty and administration.*
- 2) *If a pesticide is applied at a campus due to a pest emergency, the Plan Coordinator shall review the IPM plan to determine whether modification of the plan might prevent future pest emergencies, and provide a written report of such to the School Board.*
- 3) *The School Board shall review and take formal action on any recommendations in the report.*

The declaration of the existence of a pest emergency is the only time a non low-impact pesticide may be applied.

If a pest emergency is declared, the area must be evacuated and cordoned off before taking any other steps.

If a pest emergency makes it impracticable to give a pesticide application notice no later than 24 hours before the pesticide application occurs, the IPM Plan Coordinator shall send the notice no later than 24 hours after the application occurs.

The IPM Plan Coordinator or designee shall place notification signs around the area as soon as practicable but no later than at the time the application occurs.

Note: ORS 634.700 also allows the application of a non-low-impact pesticide "by, or at the direction or order of, a public health official". If this occurs, every effort must be made to comply with notification and posting requirements above.

C. Record Keeping of Pesticide Applications

The IPM Plan Coordinator or designee shall keep a copy of the following pesticide product information on file at the school where the application occurred, and at the office of the IPM Coordinator:

- A copy of the label
- A copy of the MSDS
- The brand name and USEPA registration number of the product
- The approximate amount and concentration of product applied
- The location of the application
- The pest condition that prompted the application

- The type of application and whether the application proved effective
- The pesticide applicator's license numbers and pesticide trainee or certificate numbers of the person applying the pesticide
- The name(s) of the person(s) applying the pesticide
- The dates on which notices of the application were given
- The dates and times for the placement and removal of warning signs
- Copies of all required notices given, including the dates the IPM Plan Coordinator gave the notices

The above records must be kept on file at the office of the IPM Coordinator, for at least four years following the application date.

D. Annual Report of Pesticide Applications

In January of each year, the IPM Plan Coordinator will provide the School Board and the OSU IPM Schools Program Coordinator an annual report of all pesticide applications made the previous year. The report will contain the following for each application:

- The brand name and USEPA registration number of the product applied
- The approximate amount and concentration of product applied
- The location of the application
- The prevention or management steps taken that proved to be ineffective and led to the decision to make a pesticide application
- The type of application and whether the application proved effective

VII. APPROVED LIST OF LOW-IMPACT PESTICIDES

Note: All pesticides used must be used in strict accordance with label instructions.

According to ORS 634.705 (5), the governing body of a school district shall adopt a list of low-impact pesticides for use with their integrated pest management plan. The governing body may include any product on the list except products that:

- (a) Contain a pesticide product or active ingredient that has the signal words "warning" or "danger" on the label;
- (b) Contain a pesticide product classified as a human carcinogen or probable human carcinogen under the United States Environmental Protection Agency 1986 Guidelines for Carcinogen Risk Assessment; or
- (c) Contain a pesticide product classified as carcinogenic to humans or likely to be carcinogenic to humans under the United States Environmental Protection Agency 2003 Draft Final Guidelines for Carcinogen Risk Assessment.

As a part of pesticide registration under the Federal Insecticide Fungicide and Rodenticide Act (FIFRA) and re-registration required by the Food Quality Protection Act (FQPA), EPA Office of Pesticide Programs (OPP) classifies pesticide active ingredients (a.i.) with regards to their potential to cause cancer in humans. Depending on when a

pesticide active ingredient was last evaluated the classification system used may differ as described above.

The National Pesticide Information Center (<http://npic.orst.edu/>) can be contacted at 1.800.858.7378 or npic@ace.orst.edu for assistance in determining a pesticide a.i. cancer classification.

LIST OF APPENDICES

Appendix 1 Pest Management for Specific Pests

(Lifecycle, What-Where-How they Eat/Drink/Shelter, Monitoring, Prevention, Threshold Levels, Management Options, Evaluation of Options Chosen for Specific Pests)

a-Ants (Small Ants)

b-Ants (Carpenter Ants)

c-Bats

d-Bed Bugs

e-Nesting birds (starlings, sparrows, swallows, pigeons)

f-Geese

g-Grounds Pests

h-Mice (House Mouse)

i-Rats (Norway Rat)

j-Yellow Jackets and European Paper Wasps

Appendix 2 Annual Inspection Form

Appendix 3 Pest Logs

Appendix 4 Outlines of Training for Custodians, Maintenance/Construction Staff, Grounds Staff, Kitchen Staff, and Faculty

Appendix 5 Template for annual fall notification of potential pesticides to be used
(STILL TO COME)

Appendix 6 Pesticide Application Notification Form

Appendix 7 Pesticide Application Posting Sign

Appendix 8 Pesticide Application Recordkeeping Form

Appendix 9 Template for Annual IPM Report

Appendix 10 Template for Annual Pesticide Application Report (STILL TO COME)

Appendix 11 Hiring an Outside Contractor

- In-House vs. Contractor
- Bid Specifications – Important Things to Remember
- Sample Bid

Appendix 12 References and Source Materials

Appendix 1a

Small Ants

Most small ants in Oregon are harmless. They do not transmit human disease and are thus called nuisance ants. Pavement Ants and Odorous House Ants are the two most common types of ants found in Oregon schools.

Nuisance ants may nest outdoors under objects, in soil, or within wall voids of structures. Pavement ants nest in soil under concrete walkways or foundations. Ants sometimes enter buildings in search of food or water, or during periods of heavy rain. Some sugar-feeding ants may move indoors in winter when their preferred food source (honeydew from aphids) is gone. Ants may also be more noticeable in spring or summer as colonies are dividing and establishing new nests.

Pavement Ant

The pavement ant gets its name from commonly locating its nest in or under cracks in pavement. It also nests under stones and at the edges of pavement. In winter it will nest in buildings in crevices adjacent to a heat source. Pavement ants tend aphids for their honeydew, and feed on seeds and insect remains. Indoors they may feed on sweets and greasy food.

Odorous House Ant

The odorous house ant gets its name from the pungent, rotten-coconut-like odor given off when it is crushed. It nests in a wide variety of places both outdoors and indoors. Odorous house ants tend aphids (as well as scale insects and mealybugs) for their honeydew, which they prefer, but they also feed on other insects. Indoors they may feed on sweets, protein foods, and greasy food. When odorous house ants are disturbed or threatened, they can break off from the main colony and form satellite colonies. This is called "budding". When odorous house ants disperse and form new colonies and nests in this way, one colony of ants can actually have multiple satellite colonies and multiple queens. Disturbances, such as spraying a pesticide on a group of odorous house ants, actually increases the number of ants because of budding.

When Nuisance Ants Come Inside

Total eradication of nuisance ants indoors is extremely difficult. The district's first response to any trail of ants is to clean surfaces with soapy water or a disinfectant. Fortunately, most ants will leave on their own if denied access to food and water. Additional control measures are warranted if ants are entering a school in large enough numbers to cause a disruption in the learning environment. The district will use mechanical methods (such as crack sealing) first, and may use low-impact pesticide baits only as a last resort.

If nuisance ants become a disruption at a school, staff should take the following steps:

- Ask the custodian to vacuum any food crumbs, clean up any garbage or spills, and to

use soap and water to clean areas where ant trails are seen (unless the areas are small and staff can clean them quickly). This can prevent other ants from following the pheromone trails that ants leave to mark the way to food.

- Make sure that any other food or water sources are removed, placed in tightly sealed containers, cleaned, or repaired. Food and water sources can include human or pet food, recycling bins, leaking faucets, clogged drains, damp wood, etc. For repairs, ask your custodian to fill out a work request on line.
- If staff finds a place where an ant trail enters the room or building, they should mark it for later sealing by the custodian or the maintenance/construction department. A temporary "seal" can be made with duct tape, if desired.

PROTOCOL FOR TREATING NUISANCE ANTS

A. When staff observe a small number of ants (e.g. under 10 ants) they must:

- 1st) Spend two minutes trying to find out where the ants are coming from
- 2nd) Kill the ants with a paper towel or similar
- 3rd) Remove any food or liquid the ants were eating
- 4th) Wipe down the area with soapy water or disinfectant to remove pheromone trails
- 5th) Jot down any action(s) they take in the Pest Log

B. If the ants come back or there are more than a small number (e.g. under 10 ants):

- 1st) Spend two minutes trying to find out where the ants are coming from
- 2nd) Jot down any action(s) they take in the Pest Log
- 3rd) Ask the custodian to come with vacuum and sealant as soon as he/she is able

C. The custodian will:

- 1st) Spend two minutes trying to find out where the ants are coming from
- 2nd) Vacuum up the ants and any food debris nearby (vacuum up a tablespoon of corn starch to kill most of the ants in the vacuum bag, then put the vacuum bag inside plastic garbage bag, seal it, and dispose of it properly)
- 3rd) Seal up the crack or hole where the ants were coming from (do what can be done in less than 15 minutes)
- 4th) Wipe down the area with soapy water or disinfectant to remove pheromone trails
- 5th) Jot down the above in the Pest Log

When to use baits:

To avoid a proliferation of small ants and/or unnecessary applications of pesticides, the routine use of ant baits is not permitted without first:

- 1) Educating staff on sanitation, monitoring, and exclusion as the primary means to control the ants.

- 2) Establishing an acceptable pest population density (e.g. 10 ants).
- 3) Improving sanitation (e.g. cleaning up crumbs and other food sources) and structural remediation (sealing up cracks or holes where the ants are coming from).
- 4) Following A, B, and C above.

If the use of a low-impact pesticide baits are deemed necessary, they will be placed in childproof containers, and used only in areas that are out of sight and reach of children/students. Small amounts of low-impact pesticide gels or pastes may also be placed in cracks and crevices or low-impact pesticide dusts may be sprayed into wall voids.

Staff must be informed that sanitation is important to ensure the effectiveness of any baits that are used. Ants are less likely to take a bait if there are more attractive food and water sources nearby.

ADDITIONAL EXCLUSION MEASURES

In addition to sealing up cracks and holes where the ants are coming from, custodial and/or maintenance/construction staff should routinely seal up as many cracks and holes as time allows, especially those around:

- Baseboards
- Cupboards
- Electrical outlets
- Pipes
- Sinks
- Toilets

Outdoors, pipe and electrical chases should be sealed off.

Grounds staff should prune away any tree limbs or bushes (leaving about 24" of space) that are touching the building.

Appendix 2

1

Annual IPM Inspection Form (Pests and Pest Conducive Conditions Checklist)

School District _____

School or Site	
Date	
Inspected by	

Entryways	Yes	No	Not Sure	N/A
Doors closed when not in use				
Doors shut tight and close on their own				
Door sweeps installed so no ¼" gaps				
Cracks & crevices around door are sealed				

If pests are present in the area, write what kind here _____

Notes:

Outside Areas	Yes	No	Not Sure	N/A
Area free from trash, old vehicles, other pest attractants				
All trash cans have secure lids				
Trash cans cleaned regularly				
Site has good drainage and is free from standing water				
Bushes, shrubs, trees at least 18" from building				
Tree branches not overhanging roof				
All dumpsters located away from building				
All dumpsters clean				
No gaps between windows or screens and frame				
Eaves and roofs free from birds, wasps, etc.				
Play structures free from wasp harborage areas				

If pests are present in the area, write what kind here _____

Notes:

Kitchen and Food Preparation Area	Yes	No	Not Sure	N/A
Free of unauthorized pesticides				
Trash emptied daily				
Door sweeps installed so no 1/4" gaps				
Floor at every corner is clean and without signs of pests				
Area is free of standing water				
Floor drains and floor sinks are clean				
All faucets close properly and have no leaks or drips				
Under stoves, sinks, and dishwasher kept clean				
No open holes or other access to outside				
Any cracks in walls or floors are sealed properly				
Windows have screens on them				
Vents are free of grease and dirt				
Storage is kept off the floor on wire rack shelving				
Food is put away and stored properly in sealed containers				
Cardboard boxes present				
No long term storage of anything in cardboard boxes				
Pest monitors (sticky traps) are present and dated				
Pest log is posted				
Breaker boxes free of evidence of pests				

If pests are present in the area, write what kind here _____

Notes:

Custodial and Custodial Closets	Yes	No	Not Sure	N/A
Area is free of unauthorized pesticides				
Mops are clean and hanging up when not in use				
Closets are free of trash and food				
Custodial closets are in good order and organized				
Trash cans and maid carts are emptied daily and clean				
Break area is clean and free of food, crumbs and trash				
Storage areas free of items stored in cardboard boxes				
Break area free of cloth covered couches and chairs				
Custodians are trained in the IPM process				
IPM records (including pest logs, monitoring trap data, pest management actions, etc.) are on file				

If pests are present in the area, write what kind here _____

Notes:

Boiler Rooms and Fan Rooms	Yes	No	Not Sure	N/A
Free of unauthorized pesticides				
Room is free of standing water				
Room is cleaned regularly				
Room is free of trash and food				
Room is free of storage, especially in cardboard boxes				
Floor drains are clean				
Plumbing is free of leaks and condensation				
Cracks or holes in floors and walls are sealed properly				
Outside air intakes are properly screened & free of trash				

If pests are present in the area, write what kind here _____

Notes:

Teachers Lounge	Yes	No	Not Sure	N/A
Room is free of cloth couches and chairs				
It's clean behind and under microwave				
It's clean under and behind vending machines				
It's clean inside, under, and behind the refrigerator				
All counters clean and free of food bits and such				
Floor at every corner is clean and without signs of pests				
Under sink is kept clean				
Cupboards clean and any food is in sealed containers				
Free of unauthorized pesticides				
Pest monitors (sticky traps) are present and dated				
Pest log is posted				

If pests are present in the area, write what kind here _____

Notes:

Classrooms or Offices	Room #	Yes	No	Not Sure	N/A
Free of unauthorized pesticides					
Free of clutter					
Indoor plants healthy and free of pests					
Desks, closets, and cubbies clean and free of food, clutter					
All food items are stored in sealed plastic containers					
Animal or bird cages are clean in and around the area					
Any pet food is stored in sealed plastic containers					
Sinks are free of dripping or standing water					
Gaps or holes under sinks or counters have been sealed					
Holes or gaps to the outside are sealed					
Outside windows and doors close tight and have no gaps					
Window screens (if any) are in good repair					
Nothing (except short-term) is stored in cardboard boxes					

If pests are present in the area, write what kind here _____

Notes:

Classrooms or Offices	Room #	Yes	No	Not Sure	N/A
Free of unauthorized pesticides					
Free of clutter					
Indoor plants healthy and free of pests					
Desks, closets, and cubbies clean and free of food, clutter					
All food items are stored in sealed plastic containers					
Animal or bird cages are clean in and around the area					
Any pet food is stored in sealed plastic containers					
Sinks are free of dripping or standing water					
Gaps or holes under sinks or counters have been sealed					
Holes or gaps to the outside are sealed					
Outside windows and doors close tight and have no gaps					
Window screens (if any) are in good repair					
Nothing (except short-term) is stored in cardboard boxes					

If pests are present in the area, write what kind here _____

Notes:

Classrooms or Offices	Room #	Yes	No	Not Sure	N/A
Free of unauthorized pesticides					
Free of clutter					
Indoor plants healthy and free of pests					
Desks, closets, and cubbies clean and free of food, clutter					
All food items are stored in sealed plastic containers					
Animal or bird cages are clean in and around the area					
Any pet food is stored in sealed plastic containers					
Sinks are free of dripping or standing water					
Gaps or holes under sinks or counters have been sealed					
Holes or gaps to the outside are sealed					
Outside windows and doors close tight and have no gaps					
Window screens (if any) are in good repair					
Nothing (except short-term) is stored in cardboard boxes					

If pests are present in the area, write what kind here _____

Notes:

Other Room:	Yes	No	Not Sure	N/A
Free of unauthorized pesticides				
Room is free of standing water				
Room is free of trash and food				
Room is free of storage, especially in cardboard boxes				
Any food items are stored in sealed plastic containers				
Free of clutter				
Cracks or holes in floors and walls are sealed properly				
Outside windows and doors close tight and have no gaps				
Window screens (if any) are in good repair				

If pests are present in the area, write what kind here _____

Notes:

pendix 3

Pest Log: KITCHEN

[illegible]

Seen any rodents, bugs, or "conductive conditions" lately?
Please jot down your observations for us!

Integrated Pest Management

Pest Log: STAFF LOUNGE AND OTHER

[illegible]

Seen any rodents, bugs, or "conductive conditions" lately?
Please jot down your observations for us!

Integrated Pest Management

Pest Log: CAFETERIA

[illegible]

Appendix 4

Training Outlines

CUSTODIAL STAFF TRAINING

1. Concerns about Pests and Pesticides
 - a. Pests which are Public Health Risks
 - b. Pesticide Risks
2. Introduction to Integrated Pest Management (IPM)
 - a. IPM is...
 - b. IPM involves...
3. Benefits of IPM to custodial staff
 - a. Recognition of your important role within the school district
 - b. More effective, efficient, and long-lasting solution to specific pest issues
 - c. Reduced pesticide use
 - d. Improved children's health
 - e. Long-term cost savings for school and school district
 - f. Better organized working environment
4. Pest basics
 - a. Food
 - b. Water
 - c. Shelter
5. Role of custodial staff in a school IPM program
 - a. Custodial staff are critical to the success of a district's IPM program
 - b. Awareness of pest conducive conditions
 - c. Reduction of pest conducive conditions
 - d. Use of insect monitoring traps
 - e. Communication
 - i. Report pests in pest log
 - ii. Report maintenance needs
 - iii. Regular communication and follow up with facilities staff/IPM Coordinator
 - f. Sanitation
 - g. Cultural changes
 - h. Attend annual IPM training provided by the IPM Plan Coordinator
 - i. When to take action against a pest: appropriate pest-response action for custodial staff
6. Requirements of ORS 634.700 – 634.750 (IPM plan, Coordinator, no pesticides applied without license, etc.)

MAINTENANCE/CONSTRUCTION STAFF TRAINING

1. Concerns about Pests and Pesticides
 - a. Pests which are Public Health Risks
 - b. Pesticide Risks
2. Introduction to Integrated Pest Management (IPM)
 - a. IPM is...
 - b. IPM involves...
3. Benefits of IPM to schools
 - a. More effective, efficient, and long-lasting solution to specific pest issues
 - b. Reduced pesticide use
 - c. Improved children's health
 - d. Long-term cost savings for school and school district
 - e. Better organized working environment
4. Pest basics
 - a. Food
 - b. Water
 - c. Shelter
5. Role of maintenance/construction staff
 - a. Monitoring for pest conducive conditions
 - b. Working with Coordinator to develop priority list, deadlines for pest exclusion needs
 - c. Working with Coordinator to develop protocols and provisions for pest avoidance and prevention during construction and renovation projects
 - d. Attend annual IPM training provided by the IPM Plan Coordinator
6. Requirements of ORS 634.700 – 634.750 (IPM plan, Coordinator, no pesticides applied without license, etc.)

GROUNDS STAFF TRAINING

1. Concerns about Pests and Pesticides
 - a. Pests which are Public Health Risks
 - b. Pesticide Risks
2. Introduction to Integrated Pest Management (IPM)
 - a. IPM is...
 - b. IPM involves...
3. Benefits of IPM to schools
 - a. More effective, efficient, and long-lasting solution to specific pest issues
 - b. Reduced pesticide use
 - c. Improved children's health
 - d. Long-term cost savings for school and school district
4. Grounds Pest Basics
 - a. Food
 - b. Water
 - c. Shelter
5. Grounds Pest Specifics
 - a. Review of OSU turf management publications
 - b. Review of model plan appendix 1-g
 - c. Mulching landscaped areas
 - d. Aeration of turf
 - e. Irrigation scheduling
 - f. Gophers, Moles, Voles
 - g. Other pests
6. Role of Grounds Staff
 - a. Keeping all vegetation at least three feet from buildings
 - b. Proper aeration, mulching, irrigation scheduling, etc.
 - c. Attend annual IPM training provided by the IPM Plan Coordinator
 - d. Pesticide application notification, posting, record keeping, and reporting
7. Requirements of ORS 634.700 – 634.750 (IPM plan, Coordinator, no pesticides applied without license, etc.)

KITCHEN STAFF TRAINING

1. Concerns about Pests and Pesticides
 - a. Pests which are Public Health Risks
 - b. Pesticide Risks
2. Introduction to Integrated Pest Management (IPM)
 - a. IPM is...
 - b. IPM involves...
3. Benefits of IPM to Kitchen Staff
 - a. Reduced potential for pest-vectoring diseases
 - b. More effective, efficient, and long-lasting solution to specific pest issues
 - c. Reduced pesticide use
 - d. Improved children's health
 - e. Long-term cost savings for school and school district
4. Pest Basics
 - a. Food
 - b. Water
 - c. Shelter
 - d. Kitchen and pantry are often the most pest-prone area of a school
5. Role of Kitchen Staff in a School IPM Program
 - a. Awareness of pest conducive conditions in kitchen, pantry, dumpster area
 - b. Reduction of pest conducive conditions in kitchen, pantry, and dumpster area
 - c. Communication
 - i. Report pests in pest log
 - ii. Report maintenance needs
 - d. Sanitation
 - e. Cultural Changes
 - f. Education
 - i. Maintain IPM awareness among all kitchen staff
 - ii. Participation in IPM inspections of kitchen
 - iii. Attend annual IPM training provided by IPM Plan Coordinator
 - g. When to take action against a pest: appropriate pest-response action for kitchen staff
6. Requirements of ORS 634.700 – 634.750 (IPM plan, Coordinator, staff cannot use pesticides)

FACULTY TRAINING

1. Concerns about Pests and Pesticides
 - a. Pests which are Public Health Risks
 - b. Pesticide Risks
2. Introduction to Integrated Pest Management (IPM)
 - a. IPM is...
 - b. IPM involves...
3. Benefits of IPM to Faculty
 - a. More effective, efficient, and long-lasting solution to specific pest issues
 - b. Reduced pesticide use
 - c. Improved children's health
 - d. Long-term cost savings for school and school district
 - e. Better organized working environment
4. Pest Basics
 - a. Food
 - b. Water
 - c. Shelter
5. Role of Faculty in a School IPM Program
 - a. Awareness of pest conducive conditions in your classroom and teacher's lounge
 - b. Reduction of pest conducive conditions in your classroom and teacher's lounge
 - c. Monitoring & communication
 - i. Report pests in pest log
 - ii. Report maintenance needs
 - d. Sanitation
 - e. Cultural changes
 - f. Education
 - i. Involve students in classroom pest management (monitoring, sanitation, cultural changes)
 - ii. Attend annual IPM training provided by IPM Plan Coordinator
 - g. When to take action against a pest: appropriate pest-response action for faculty
6. Requirements of ORS 634.700 – 634.750 (IPM plan, Coordinator, teachers cannot use pesticides)

Appendix 6

Pesticide Application Notification Form

A pesticide application is scheduled for / was performed on:

DATE _____ TIME _____

Pesticide Common Name	Pesticide Trade Name / Type of Pesticide Product	EPA Registration Number

Expected Area of the pesticide application: _____

Expected date of application: _____

Reason for the application:

WARNING

PESTICIDE-TREATED AREA

A pesticide application is scheduled for/was performed on:

DATE _____ TIME _____

Expected / Actual reentry time _____

For further information regarding this notice please contact:

Name

Telephone Number

Date of Application _____ / _____ / _____
Month Day Year

hool.

PESTICIDE APPLICATION RECORD

This form meets all pesticide record-keeping requirements for schools in Oregon. Note additional attachments required.

Name	Phone
------	-------

License No. _____ Certificate No. _____

Address

City _____ State _____ Zip Code _____

Pesticide Product Used

Product (Brand) Name	EPA Registration No
----------------------	---------------------

Product type (granular, liquid, etc.)

Attach following documents

Pesticide Label- ☐ MSDS ☐ Copies of all required notices, including dates the notices were given ☐

Date and time for placement and removal of warning signs	Placement:	Removal:
--	------------	----------

Application Information

Time began _____ Time ended _____

Temp	Wind Speed & Direction
------	------------------------

Amount of Product Applied

Total Product Volume or Weight	Total Area of Application(s)(acres, feet, etc.)
--------------------------------	---

Product Concentration (amount per area; note units)

Location(s) of application

Type of Application

Backpack		Bait		Boom Sprayer		Crack/Crevice
----------	--	------	--	--------------	--	---------------

Other (describe)

Did the application prove effective? Explain:

Appendix 9

Template for Annual IPM Report

January ____, 20XX

Report completed by IPM Plan Coordinator

Report submitted to the School Board and the OSU School IPM Program Coordinator

Notes:

Pages 2 – 3 of this template are to be used by IPM Plan Coordinator to tabulate data from individual schools. This data should then be summed up and input into pages 4 – 5. Data on pages 4 – 5 should be included in the annual report, along with a short written summary of the overall pest management for the year.

Prevention and management steps taken that proved to be ineffective and led to the decision to make a pesticide application will be copied and pasted or incorporated into the annual report of pesticide applications (see section VII. D of IPM Plan)

Short Written Summary of Overall Pest Management for the Year:

DATA FROM INDIVIDUAL SCHOOL (first part)

Name of School _____

Pests, pest-conducive conditions, actions taken, Costs (taken from pest logs):

Number of Pest Sightings Reported:

Small ants _____

Bats _____

Cockroaches _____

Spiders _____

Yellow Jackets _____

Other _____

Number and Type of Pest Conducive Conditions:

Standing water in Kitchen _____

Window screens missing or torn _____

Gap under external door _____

Other _____

Number of Actions Taken:

Sanitation – Cleaned up Area _____

Reduced Clutter _____

Set rodent traps _____

Sealed up hole or crack _____

Fixed screen _____

Installed external door sweep _____

Pesticide Application _____

Breakdown of prevention and management steps taken that proved to be ineffective and led to the decision to make a pesticide application:

Pest Problem and Date(s) _____

Prevention and Management Steps and Date(s):

Why Prevention and Management Steps Ineffective:

Pesticide Applied and Date: _____

DATA FROM INDIVIDUAL SCHOOL (second part)**Costs (from Pest Logs):**

Sticky traps

Mouse traps

Rat traps

Pest Management Professional

Pesticides

Total:**Costs (from Grounds Records):**

Propane Fuel for flame weeders

Mole Traps

Pest Management Professional

Pesticides

Total:

DATA FROM SCHOOL DISTRICT (first part)**Name of School District** _____**Pests, pest-conducive conditions, actions taken, Costs (taken from pest logs):****Number of Pest Sightings Reported:**

Small ants _____

Bats _____

Cockroaches _____

Spiders _____

Yellow Jackets _____

Other _____

Number and Type of Pest Conducive Conditions:

Standing water in Kitchen _____

Window screens missing or torn _____

Gap under external door _____

Other _____

Number of Actions Taken:

Sanitation – Cleaned up Area _____

Reduced Clutter _____

Set rodent traps _____

Sealed up hole or crack _____

Fixed screen _____

Installed external door sweep _____

Pesticide Application _____

Breakdown of prevention and management steps taken that proved to be ineffective and led to the decision to make a pesticide application:

Pest Problem and Date(s) _____

Prevention and Management Steps and Date(s):

Why Prevention and Management Steps Ineffective:

Pesticide Applied and Date: _____

DATA FROM SCHOOL DISTRICT (second part)**Costs (from Pest Logs):**

Sticky traps

Mouse traps

Rat traps

Pest Management Professional

Pesticides

Total:**Costs (from Grounds Records):**

Propane Fuel for flame weeders

Mole Traps

Pest Management Professional

Pesticides

Total:

Appendix 11

Hiring an Outside Contractor

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B. Bid Specifications – Important Things to Remember	Page 3
C. Sample Bid: IPM Plan Contract Guide Specification	Page 5

A. In-House vs. Contractor: Advantages & Disadvantages

Schools in Oregon receive pest control services from pest control companies or trained school maintenance employees. Both pest control companies and school employees with the proper training can successfully perform Integrated Pest Management (IPM). Some school districts contract pest control companies to provide pest control services. Others combine in-house and contracted services and some use in-house services exclusively. Each approach has advantages and disadvantages therefore school officials should decide which one best suits the school district's resources and needs.

Pest Control by In-House Personnel

Advantages

1. Compared to contracted pest control services, school pest management personnel may find it easier to communicate and develop a rapport with students, teachers, staff and other school employees. Cooperation with all individuals in the school is needed for the program to succeed.
2. When a school employee performs pest control services, schools may find it efficient to incorporate some pest control activities with other maintenance activities performed by certified in-house employees, as long as the employee is a certified pest control operator.
3. Because in-house personnel are always around the schools, they are more likely to identify pest problems before they become too serious.
3. When in-house personnel perform pest control, there is no need to develop a bid invitation and therefore the potential difficulty of choosing a pest control firm based on reliability rather than simply on lowest bid.
4. Maintenance or buildings and grounds supervisors have greater control over personnel selection and performance, and subsequently the quality of pest control services.

2. School districts must develop a bid invitation for contracted services and choose a pest control firm based on IPM expertise and reliability rather than simply on lowest bid.

B. Bid Specifications – Important Things to Remember

What to Look for When Choosing and Evaluating an IPM Contractor

- Is the contractor prevention-oriented or reactive-oriented?
- Is the contractor knowledgeable about the damage caused by each type of pest?
- Does the contractor inspect for pest-conducive conditions and monitor population levels at least monthly?
- Does the contractor use a flashlight during inspections?
- Does the contractor use monitoring traps for insects?
- Are the traps checked and changed according to IPM Plan schedule?
- Does the contractor explain ways to prevent further pest outbreaks?

Importance of Pest Management Bid Specifications

Thorough, stringent bid specifications help reduce the problem of unrealistically low bids by firms that are unable or unwilling to provide the quality of work your school district should expect. The selection of a pest control company should not be based solely or primarily on lowest bid. Just as with other important purchases/contracts, the quality of the expected service is extremely important.

Essential Items in IPM Bid Specifications

Some elements for IPM bid specifications are listed below:

- On-site inspections: Prospective bidders should conduct a thorough on-site inspection before submitting a bid. This allows potential bidders to view firsthand the facilities and pest problems, so bidders can make a realistic estimate of service needed and the time required for these services.
- IPM Plan: The bid should spell out exactly which sections of the district's IPM Plan will be carried out by the contractor, and how these will be coordinated and communicated with school staff.
- Minimum service times: The minimum amount of time that a pest control technician should take per scheduled visit can be defined by the school district in the bid. Bidders should understand that minimum service times are an expectation of the

Disadvantages

1. There is need to find safe storage sites for pesticides and pest control equipment. The potential liability of the district in regard to pesticide use is probably higher in an in-house program.
2. If a re-entry time interval is needed which is greater than that listed on the label, overtime expenses could be incurred.
3. Certifying an employee to apply pesticides in a school will require time and a charge for the certification exam. In addition, all pesticide applicators will need to maintain ongoing certification by attending continuing education events.

Contracted Pest Control Services

Advantages

1. Professional pest control personnel usually have a broader range of experience, ongoing training, and greater familiarity with the full range of treatment techniques and potentially expensive equipment available to safely and effectively control pests. By contracting with an outside pest control company, the School district eliminates or reduces the need to train and maintain pesticide applicator certification for employees, although schools are encouraged to have certified applicators who can better evaluate the quality of the work performed by the contractor.
2. Using contracted services can reduce potential liability of the school system with regard to the use and storage of pesticides. The need for locating a special storage site for pesticides is eliminated.
3. There are times when pest control activities must be performed after-hours or on weekends to meet reentry interval requirements. By hiring a contractor the school district avoids the need for overtime expenses.
4. Contracted pest control services can provide school administrators with the flexibility of using specialized and professional labor on an "as-needed" basis, as opposed to investing in the development of in-house capabilities that may not be used on a continuous basis.

Disadvantages

1. Communication between contracted individuals and school employees may not be as easily developed as in an in-house program.

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contract, and any failure of the contractor to meet these minimum service times should be grounds for cancellation of the contract by the school district.

- **Monitoring tools:** The contractor should use appropriate monitoring tools (flashlight, sticky insect monitoring traps, etc.) and procedures mentioned in the IPM Plan on a regular basis to find pest infestations and assess the need for corrective action.
- **Approved Pesticides:** Only products from the district's list of approved pesticides shall be used. Districts should receive from the bidder copies of labels and Material Safety Data Sheets (MSDS) for all pesticides to be used on the school district property.
- **Reduced-risk formulations and methods:** The use of baits, bait stations, and crack-and-crevice or void treatments are the only approved treatments indoors. Aerosol, broadcast, spot, and baseboard treatments are prohibited except when a pest emergency as defined in the district's IPM Plan is declared. All applications must follow the requirements and protocols outlined in the Plan.

The above provisions and others are specified in the following set of model bid specifications. **These specifications are strongly recommended as a model for school districts attempting to implement an indoor IPM program.** School districts may want to incorporate some elements of the model contract into existing bid specifications; others may adopt the requirements in total, with additions as suggested by their IPM coordinator, purchasing officer or other business personnel. Many standard clauses are omitted from the following contract to save space. If there is a conflict between the model bid specifications and the school district's usual bid process, the district should defer to its regular bidding process.

C. Sample Bid: Integrated Pest Management Plan Contract Guide Specification

1. GENERAL

Description of Program: This specification is part of a comprehensive Integrated Pest Management (IPM) Plan for the premises listed herein. IPM is a process for achieving long-term, environmentally sound pest suppression and prevention through the use of a wide variety of technological and management practices (see Culver School District's IPM Plan at www.culver.k12.or.us/ipm) Control strategies in an IPM program include:

- Facility inspections to identify pest harborage and presence of conditions favorable to pests.
- Proper identification of pests and an understanding of pest biology and behavior.
- Structural and procedural changes to reduce food, water, harborage, and access used by pests.
- A preference for non-pesticide technologies such as trapping and monitoring devices.
- Use of low-risk pesticide compounds, formulations, and selection of application methods that present a reduced potential hazard to humans and the environment.
- Coordination among all facilities management programs that have a bearing on the pest control effort.

Contractor Service Requirements: The Contractor shall furnish all supervision, labor, materials, and equipment (excluding insect light traps, air curtains, and other major expense items unless requested by the contract administrator) necessary to accomplish the inspection, monitoring, trapping, pest management (including pesticide application if needed, but excluding sanitation and building maintenance), and pest removal components of the IPM Plan. The Contractor shall also provide detailed, site-specific recommendations for structural and procedural modifications to aid in pest prevention.

2. PESTS INCLUDED AND EXCLUDED

PESTS INCLUDED: The Contractor shall adequately suppress the following pests:

- A. Indoor populations of rodents, insects, arachnids, and other arthropods. For the purposes of this contract, rodents include Norway rat, roof rat and house mouse. There may be an additional charge for the control of certain species because of

increased material and/or labor expenses such as bed bugs and other pests not specified in the contract.

- B. Outdoor populations of potentially indoor-infesting species that are within the property boundaries within 10 yards of the specified buildings.
- C. Nests of stinging insects within the property boundaries of the specified buildings.
- D. Individuals of all excluded pest populations that are incidental invaders inside the specified buildings.
- D. Populations (or individual animals) of vertebrates (other than rodents), including birds and bats. For vertebrate pests, contractor should have a qualified person on staff to control them or recommend a qualified wildlife damage control agent.

PESTS EXCLUDED: The following pests are excluded from this contract:

- 1. Termites and other wood-destroying organisms.
- 2. Mosquitoes.
- 3. Pests that feed on outdoor vegetation

3. INITIAL BUILDING INSPECTIONS

The Contractor shall complete a thorough, initial inspection of each building or site at least 30 working days prior to the starting date of the contract. The purpose of the initial inspections is for the Contractor to evaluate the pest control needs of all locations and to identify problem areas and any equipment, structural features, and other conditions or management practices that are conducive or contributing to pest infestations. Access to building space shall be coordinated with the IPM Coordinator.

**Contact information for each facility (with address and phone number) is attached.*

4. THE INTEGRATED PEST MANAGEMENT CONTRACT

The Contractor shall submit to the IPM Coordinator an Integrated Pest Management (IPM) Contract at least 45 working days prior to the starting date of the contract. Upon receipt of the IPM Contract, the Coordinator will render a decision regarding its acceptability within 10 working days. If aspects of the IPM Contract are incomplete or disapproved, the Contractor shall have 5 working days to submit revisions. The Contractor shall be on-site to perform the initial service visit for each building within the first 2 working days of the contract.

The IPM Contract shall consist of five (5) parts as follows:

- A. *Proposed Methods for Pest Identification, Monitoring and Detection:* The Contractor shall provide information on procedures to be used to identify pests, as well as describe methods and procedures to be used for identifying sites of pest harborage and access, for making objective assessments of pest population levels, and for determining the need to implement specific control measures throughout the term of the contract.

B. Description of any Structural or Operational Changes That Would Facilitate the Pest Control Effort: The Contractor shall describe site-specific solutions for observed sources of pest food, water, harborage, access or other conditions conducive to pest problems.

C. Proposed Materials and Equipment for Service: The Contractor shall provide the following information:

1. A list of all pesticide products to be used. These must be on the school district's approved list of low-impact pesticides. They shall include each product's brand name, common name of the active ingredient.
2. A list of the brand names of pesticide application equipment, rodent bait boxes, insect and rodent trapping devices, pest monitoring devices, pest detection equipment, and any other pest control devices or equipment that may be used to provide service.
3. The current label (and labeling) and Material Safety Data Sheet (MSDS) for each pesticide product on the list referenced in C1.

D. Commercial Pesticide Applicator Documentation: The Contractor shall provide the following documents

1. The phone number for the currently designated state poison control center.
2. The names and phone numbers of at least two individuals who are designated as the primary and secondary 24-hour contacts for information concerning any aspects of the pest control service being provided.
3. A photocopy of the valid Oregon Pesticide Applicator License(s) under which all pest control is to be performed.
4. A photocopy of the Contractor's valid Certificate of Insurance.
5. A list of all Contractor employees who will be performing on-site service under this contract; this list shall include the employee's name and a statement of whether the employee is a licensed pesticide applicator or trainee.

E. Commercial Pesticide Applicator Documentation: The Contractor shall be responsible for carrying out work according to the approved Pest Control Plan. The Contractor shall receive the concurrence of the IPM Coordinator prior to implementing any subsequent changes to the approved Pest Control Plan, including changes in on-site service personnel and any additional or replacement pesticides.

5. RECORD KEEPING

The Contractor shall be responsible for maintaining a pest management logbook for each building or site specified in this contract. These logbooks shall be kept on-site and accessible to all site staff. The Contractor shall maintain or update the contents of these logbooks on each visit. Each logbook shall contain at least the following items:

- A. *Integrated Pest Management Contract*: A complete copy of the Contractor's approved IPM Contract.
- B. *Pest Log*: A school-district-approved form that permits school personnel to record the location of any pest sightings and Contractors any action taken. The IPM Coordinator will review and approve the design of this form prior to its distribution and use at the facilities. The Coordinator will be responsible for informing and educating all site staff about methods for reporting pest observations in the log.
- C. *Contractor's Service Report*: The Contractor shall document site-specific pest findings and subsequent control measures performed during the service visit. A separate form is not required if the Pest Log is designed to incorporate this information.

6. THE MANNER AND TIME TO CONDUCT PEST MANAGEMENT ACTIVITIES

- A. *Time Frame of Service Visits*: The Contractor will negotiate with the IPM Coordinator regarding time frame of service visits. It is imperative that the Contractor interacts with school staff during regular school hours to get a better understanding of the local situation and educate staff when necessary. It is also important that the Contractor conduct those pest management activities that may cause class disruption after school hours. All contractor employees shall adhere to all policies for notifying local personnel that the employee is onsite and working in the building. When it is necessary to perform work outside of the regularly scheduled service time set forth in the IPM Plan, the Contractor shall notify the IPM Coordinator at least two days in advance except when the Coordinator requests emergency service as described in Section 7 of this contract. The Coordinator shall approve such changes before any work is done.
- B. *Safety and Health*: The Contractor shall observe all applicable safety precautions throughout the performance of this contract. All work shall be in strict accordance with all applicable Federal, state, and local safety and health requirements, as well as specific pest control product label instructions. Where there is a conflict between applicable regulations, the most stringent will apply.
- C. *Compliance*: The Contractor shall assume full responsibility and liability for compliance with all applicable regulations pertaining to the health and safety of personnel during the execution of work. The contractor's liability insurance must be enforced throughout the term of this contract.
- D. *Special Entrance*: Certain areas within some buildings may require special instructions for persons entering them. Any restrictions associated with these special areas will be explained by the IPM Coordinator. The Contractor shall adhere to these restrictions and incorporate them into the IPM Contract.
- E. *Uniforms and Protective Clothing*: All Contractor personnel working in or around

buildings specified in this contract shall wear distinctive uniform clothing and a photo ID badge. The Contractor shall determine the need for and provide any personal protective items required for the safe performance of work. Protective clothing, equipment, and devices shall, as a minimum, conform to U.S. Occupational Safety and Health Administration (OSHA) standards and to any specific label requirements for the products being used.

- F. *Vehicles*: Vehicles used by the Contractor shall be identified in accordance with state and local regulations. While on-site, all service vehicles shall be secured to prevent unauthorized access to chemicals and equipment. Service vehicles shall be equipped with appropriate pesticide spill control equipment in accordance with state and federal regulations. All pesticides on contractor vehicles shall remain locked or remain inaccessible while vehicles are unattended.

7. SPECIAL REQUESTS AND EMERGENCY SERVICE

On occasion, the IPM Coordinator may request that the Contractor perform corrective, special, or emergency services that are beyond routine service requests. The Contractor if possible shall respond to these exceptional circumstances and complete the necessary work within a timeframe approved by the Coordinator, which will minimize disruption of the daily activities of the building.

8. CONTRACTOR PERSONNEL

Throughout the term of this contract, all Contractor personnel providing on-site applications must have a commercial applicators license in accordance with SB 637. They must also have specific IPM training. In addition, the contractor shall run criminal background checks and not allow any individual with a felony within the last 5 years to service the property.

9. INSECT CONTROL

The priority for insect control will be the use of non-pesticide methods. The Contractor shall use non-pesticide methods of control wherever possible. For example:

- Portable vacuums rather than pesticide sprays shall be the standard method for initial cleanouts of cockroach infestations and the control of spiders and other miscellaneous pests.
- Trapping devices, such as light traps, shall be the standard method for indoor fly control. The Contractor will make recommendations to the IPM Coordinator regarding the purchase and installation of such traps.

Pesticides can only be used after following the protocols of the district's IPM Plan. When pesticides are used, the Contractor shall use pesticides on the district's approved list of low-impact pesticides and employ reduced-risk methods of application.

- A. *Monitoring*: Monitoring devices (Sticky traps, light traps, etc) shall be used to guide decisions on appropriate pest control measures and subsequently to evaluate the effectiveness of these measures.
- B. *Insecticide Bait Formulations*: Non-volatile bait formulations shall be the first choice for cockroach and ant control. If possible, baits shall be applied or placed in areas that cannot be accessed by children or building occupants.
- C. *Application of Insecticides to Cracks and Crevices*: As a general rule, the Contractor shall apply liquid/dry insecticide formulations as "crack and crevice" treatments only, defined in this contract as treatments in which the formulated insecticide is applied to hidden or protected areas that are used as harborage sites by pests.
- D. *Application of Insecticides to Exposed Surfaces*: Application of insecticides to exposed surfaces shall be restricted to a pest emergency as defined in the district's IPM Plan where no alternative effective measures are practical. The Contractor shall obtain approval of the IPM Coordinator prior to any application of insecticide to an exposed surface or any space spray treatment. No surface application or space spray shall be made while the treatment site is occupied. The Contractor shall take all necessary precautions to ensure occupant and employee safety, and all necessary steps to ensure the containment of the pesticide to the site of application.
- E. *Space sprays*: Application of pesticides as space sprays ("fogging") are strictly prohibited, except when a pest emergency as defined in the district's IPM Plan is declared. The application must follow the same restrictions outlined for surface sprays. Space sprays must be timed to allow the specific treatment site to remain unoccupied for a minimum of 24 hours. The Contractor shall be responsible for ventilating the treatment site in accordance with instructions on the product label before school personnel reenter the site. The IPM Coordinator will assist the Contractor to secure the treatment site to prevent any unauthorized reentry to the area prior to ventilation or before any re-entry period specified on the product label, and to arrange for appropriate cleaning of exposed surfaces by District employees before the site is free for general use.

10. RODENT CONTROL

- A. *Indoors trapping*: As a general rule, rodent control inside buildings shall be accomplished with trapping devices only. All such devices shall be placed so as to conceal them from general view, make them inaccessible to building occupants, and to protect them from any adverse effects of routine cleaning and other operations.

- B. *Trapping devices* shall be checked on a schedule approved by the IPM Coordinator. The Contractor shall be responsible for disposing of all trapped rodents and all rodent carcasses in an appropriate manner.
- C. *Use of Rodenticides*: In exceptional circumstances, when deemed essential for adequate rodent control inside buildings, the Contractor shall obtain approval of the IPM Coordinator prior to making any interior rodenticide treatment. ONLY block (paraffin-based or other types) rodenticides shall be used. Pellet/pack bait formulations and packaging shall not be used in/around school buildings. All bait shall be placed in EPA-approved tamper-resistant bait boxes that can be secured to a surface.
- D. *Use of Bait stations*: All bait stations shall be maintained in accordance with EPA and regulations, with an emphasis on the safety of non-target organisms. The Contractor shall adhere to the following five (5) points:
1. All bait stations shall be placed out of the general view, in locations where they will not be disturbed by routine operations.
 2. The lids of all bait stations shall be securely locked or fastened shut.
 3. All bait boxes shall be securely attached or anchored to floor, ground, wall, or other immovable surface, so that the station cannot be picked up or moved by unauthorized personnel.
 4. Bait shall always be secured in the feeding chamber of the station and never placed in the runway or entryways of the stations where it could be removed or dislodged.
 5. All bait stations shall be labeled with the Contractor's business name and address, and dated by the Contractor's technician at the time of installation and each servicing.
- E. *The locations of all trapping devices and baiting stations* will be recorded in the site's Pest Log. The Contractor shall record all changes/additions to this information before leaving the site during that service visit. The Contractor will provide the IPM Coordinator with a key and instructions for opening bait stations in the event of an emergency.

11. USE OF PESTICIDES

The contractor shall be responsible for application of pesticides according to the label and all additional labeling. All pesticides used by the Contractor must be registered with the U.S. Environmental Protection Agency (EPA) and the Oregon Department of Agriculture. Transport, handling, and use of all pesticides shall be in strict accordance with the manufacturer's label instructions and all applicable Federal, state, and local laws and regulations. The Contractor shall adhere to the following rules for pesticide use:

- A. *Minimization of Risk*: Where pesticide use is necessary, the Contractor shall emphasize "reduced risk measures", i.e., the Contractor shall employ materials, quantities and application methods that minimize the risk or hazard of exposure to the applicator, building occupants, and the environment in general. The Contractor shall not give any pesticides to any site personnel for application to the site.
- B. *Selection of pesticide products*: Only products from the district's approved list of low-impact pesticides shall be used.
- C. *Approved Products*: The Contractor shall not apply any pesticide product that has not been included in the IPM Contract or has not been approved in writing by the maintenance/ facilities director or other designated personnel. Any additions to the list of approved pesticides must be submitted to the maintenance/ facilities director five (5) working days prior to the proposed date of use. The maintenance/ facilities director shall render a decision on the proposed addition within three (3) working days. Prior to the use of any new approved pesticide products, the Contractor shall provide product labels, labeling and MSDS in the logbooks of each site where the products are to be used.
- D. *Pesticide Storage*: The Contractor shall not store any pesticide product in the buildings specified in this contract.
- E. *Application by Need*: Routine pesticide applications will not be employed. Application of pesticides to any interior or exterior area shall be based on visual inspection or monitoring devices indicating the presence of pests in that specific area and the need to apply a pesticide, as specified in the district's IPM Plan.
- F. *Approved Applicators*: Only Contractor employees shall apply pesticides under the terms of this contract. The Contractor shall not provide pesticide products to non-certified school employees for their use in/around the building and property.

12. VERTEBRATE PEST CONTROL (OTHER THAN COMMENSAL RODENTS)

The following terms of the contract apply only if the Contractor has agreed to be responsible for vertebrate pest control.

- A. *General Vertebrate Pests*: The Contractor shall be responsible for the control of miscellaneous vertebrates, including snakes, raccoons, skunks. Where state, county or local regulations require the issuance of a depredation permit for the taking of such vertebrates, the contractor shall arrange for such permits. Subsequent to the issuance of the depredation permit, the Contractor shall take or arrange with a state-licensed authority to take such vertebrates in accordance with all state and local wildlife regulations. If the authority is not an employee of the contractor, then the Contractor shall inform the IPM Coordinator in advance the name of any State-Licensed Authority to be used for such work. The cost for these services will be negotiated with the contractor separately from this contract.

- B. *Bat and Bird Populations*: Situations that require more extensive exclusion methods, such as the repairs to exclude bats from established roosting sites within buildings, or the installation of mesh, pointed wire or other devices to exclude birds from roosting will be negotiated with the Contractor separate from this contract. The proper removal/cleanup of animal feces ("guano") may be included as part of the terms of a separate specific contract.

13. STRUCTURAL MODIFICATIONS AND RECOMMENDATIONS

Throughout the term of this contract, the Contractor shall be responsible for advising the IPM Coordinator about any structural, sanitary, or procedural modifications that would reduce pest food, water, harborage, or access. The Contractor will not be held responsible for carrying out structural modifications as part of the pest control effort, unless both parties agree upon such modifications. Minor applications of silicone sealant and other sealing materials by the Contractor to eliminate pest harborage or access may be approved by the Coordinator on a case-by-case basis. The Contractor shall obtain the approval of the IPM Coordinator prior to any application of sealing material or other structural modification.

14. PROGRAM EVALUATION

The IPM Coordinator will continually evaluate the progress of this contract in terms of effectiveness and safety, and will require such changes as are necessary. The Contractor shall take prompt action to correct all identified deficiencies.

15. QUALITY CONTROL PROGRAM

The Contractor shall establish a complete quality control program to assure the requirements of the contract are provided as specified. Within 10 working days prior to the starting date of the contract, the Contractor shall submit a copy of his program to the Contracting Officer.

The program shall include at least the following items:

- A. *Inspection System*: The Contractor's quality control inspection system shall cover all the services stated in this contract. The purpose of the system is to detect and correct deficiencies in the quality of services before the level of performance becomes unacceptable and/or the IPM Coordinator identifies the deficiencies. For the duration of this contract, the contractor shall carry out such inspections on a quarterly basis.
- B. *Checklist*: A quality control checklist shall be used in evaluating contract performance during regularly scheduled and unscheduled inspections. Every task shall be included on the checklist for every building or site serviced by the Contractor.

- C. *File*: A quality control file shall contain a record of all inspections conducted by the Contractor and any corrective actions taken. The file shall be maintained throughout the term of the contract and a copy provided to the IPM Coordinator.
- D. *Inspector(s)*: The Contractor shall state the name(s) of the individual(s) responsible for performing the quality control inspections.
- E. (OPTIONAL). The contractor may use an electronic system of bar codes and scanning systems to record such information. Such systems can facilitate the tracking of time "In and Out" of technicians and the sanitation condition of the facility. These records can allow the contractor to track the process and ensure performance at the facility.

16. Culver School District Maintenance Address and Contacts

For questions concerning specifications, or to preview facilities, contact Bill Timoshuk at the above numbers. The Culver School Board reserves the right to reject any or all bids for any or no reason, and to waive informalities.

Appendix 12

References and Source Materials

Used in the Preparation of Model IPM Plan for Oregon Schools (accessed 8/26/2011)

School IPM 2015

(Exhaustive list of resources and weblinks)

http://www.ipminstitute.org/school_ipm_2015/resources.htm

US Environmental Protection Agency How-to Manual

(Chapters 1 – 3 have good info on monitoring, setting injury/action levels, & treatment strategies. Appendix D has good info on contractor performance specifications)

<http://www.epa.gov/pesticides/ipm/schoolipm/index.html>

Outdoor IPM for Maine Schools

(Good basic, general manual)

<http://www.maine.gov/agriculture/pesticides/schoolipm/pdf/outdooripm.pdf>

Portland Public Schools IPM Program Manual

(Click on “District’s IPM program manual” link in second-to-last paragraph)

<http://www.pps.k12.or.us/departments/facilities/3416.htm>

Eugene School District 4J Landscape Management

(Matrices of hierarchical steps to manage various outdoor pests)

<http://www.4j.lane.edu/facilities/pesticide>

Portland Parks & Recreation IPM Program

(A detailed “Pesticide Spill Response” section begins on page 29)

<http://www.portlandonline.com/shared/cfm/image.cfm?id=116237>

Salt Lake City School District IPM Plan

(click on “SLCSD IPM Plan 2010” link)

<https://aal.slcschools.org/pls/apex/f?p=118:40:1695263352950185>

California School IPM Guidebook, California Department of Pesticide Regulation

(Has sample chart on injury/action levels. Various sample forms and examples in appendices)

http://apps.cdpr.ca.gov/schoolipm/managing_pests/guidebook.cfm

North Carolina State University IPM for Schools & Child Care Facilities

(“IPM for North Carolina Schools Manual” link goes to well-written basic manual. Part Four has good information on how to develop bid invitations for IPM services)

<http://schoolipm.ncsu.edu/resources.htm>

CULVER SCHOOL DISTRICT NO. 4
CULVER, OREGON 97734
RESOLUTION 32-11

RESOLUTION TO TRANSFER APPROPRIATIONS

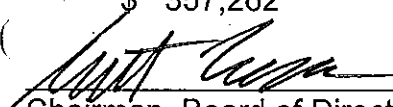
WHEREAS, ORS 294.450(1) provides for the transfer of appropriations within a fund when authorized by Board resolution;

WHEREAS, the Board of Directors has determined the need to transfer to debt service an amount equal to the interest payment on the full faith and obligation bond from the Capital Projects Fund; and

WHEREAS, the Board of Directors has determines that \$2,487 needs to be transferred from Capital Projects function 2000 to Capital Projects function 5200; and

THEREFORE BE IT RESOLVED, that the fiscal year beginning July 1, 2011, the Board hereby revises the appropriated budget amounts, for the purposes indicated within the function groups as shown below:

<u>Appropriation</u>	<u>Capital Fund (400)</u>	<u>Revised</u>
\$ 198,357	2000: Support Services	\$ 195,870
78,410	4000: Capital Outlay	78,410
64,477	5000: Other Uses	66,964
16,018	7000: Unappropriated	16,018
<u>\$ 357,262</u>		<u>\$ 357,262</u>



Chairman, Board of Directors



Superintendent

Date: June 11, 2012

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