Station Avenue Elementary School
OUTDOOR INTEGRATED PEST MANAGEMENT (IPM) PLAN

276 Station Avenue
Yarmouth, MA 02664

IPM Coordinator

Steven Faucher

Primary Contact

Sandra J. Cashen, 508-398-7670, cashens@dy-regional.k12.ma.us

Station Avenue Elementary School employs Steven A. Faucher an on-site certified and/or licensed pesticide applicator (certification/license #: 32715) who may be called on to manage all or some of the necessary OUTDOOR pest problems that may arise.

By signing the end of this outdoor IPM plan, the IPM coordinator, Steven Faucher, of this School and the Pest Management Professionals described above acknowledge, and agree to the terms of this OUTDOOR integrated pest management plan.

A. INTRODUCTION

In compliance with the Act Protecting Children and Families from Harmful Pesticides the Station Avenue Elementary School on 6/8/2018 6:30:00 AM has prepared the following outdoor IPM plan about pest control and pesticide use.

This plan describes the pest management practices for outdoor areas of Station Avenue Elementary School and clearly states it's pesticide use policies.

A copy of the plan has been filed with the Massachusetts Department of Agricultural Resources (MDAR), and at least one printed copy must be kept on site and made available to the public upon request.

By centralizing all of the information about this facility's pest management practices the plan serves as a guide to direct this facility's IPM coordinator, Steven Faucher

Objectives

The objectives of the integrated pest management program conducted at the Station Avenue Elementary School are listed below.

- Reduce children's exposure to pesticides and pesticide residues whenever possible.
- Manage pests that may occur on facilities to prevent interference with the learning environment of the students.
- Provide the safest playing or athletic surfaces possible.

In light of these objectives, the Station Avenue Elementary School has selected the following as it's IPM policy statement.

B.POLICY STATEMENT

The Dennis/Yarmouth Regional School District desires to prevent unnecessary exposure to children and employees to chemical pesticides and reduce the need to rely on chemical pesticides when managing pests. It is the policy of Dennis/Yarmouth Regional School District to only use chemical pesticides when pests have been identified and their presence verified. Selection of treatment option or corrective actions will give priority to non-chemical actions whenever possible to provide the desired control of pests. Education of staff, students, employees, and parents about IPM will be included to achieve desired objectives. When it is determined that pesticides are needed, only those allowed by the Children's and Families Protection Act will be used. Further, only certified and/or licensed individuals will be able to use pesticides. Our policy prohibits the use of any pesticide by unlicensed staff. It will be this school policy to make the appropriate notification and posting as well as keep records of all pesticide use. A copy of the school IPM plan will be maintained on the maintenance website http://www.dy-regional.k12.ma.us/district/facilities/pages/pest-management and main office of the school.

C. IPM COMMITTEE

The tasks set before an IPM committee are to:

- Develop an IPM plan. The IPM plan is in essence, a document that describes the organization and implementation of IPM on school grounds.
- Evaluate progress of the IPM program.
- Communicate about IPM - Facilitate communication within the school about IPM practices.
- Assist in development of contract specifications.
- Provide notification to parents about pesticide use.

The OUTDOOR committee members selected for the Station Avenue Elementary School are listed below:

1) Steven Faucher (Outdoor IPM Coordinator)
2) Steven Faucher
3) Sandra Cashen

D. COMMUNICATING IPM WITHIN THE FACILITY

Pest Management Personnel to Building Staff:

IPM Coordinator will meet directly with Asst. Facility Mgr.when necessary to cover monitoring reports. An initial meeting was held on November 1, 2013, to establish a pest activity log binder. The log binder will be kept in the main office of the Asst. Facility Mgr. The sheet will indicate the identification of pest (if known), number seen, date, time, and location. The Asst. Facility Mgr. will be responsible for notifying IPM Coordinator of logged pests seen on site. The Asst. Facility Mgr. will respond to the log complaints. If any sanitation or structural or operation changes are noted, it will be written in the log along with remedial recommendation. Specific service reports will also be placed in the log binder that documents particular actions taken by Asst. Facility Mgr.

Staff/Students communicate with their supervisors who then pass information onto the IPM coordinator.

E. EDUCATION AND TRAINING OF FACILITY OCCUPANTS & STAFF

Principals, P.E. Teachers, and Athletic Directors will be instructed on how to log pest complaints and be given a brief overview of pest identification and the conditions that promote the pests. Pamphlets and fact sheets will be made available online. This information will focus on pest reduction strategies. More specific training will be held annually and separately for Asst. Facility Mgr, Maintenance Laborers, P.E. Teachers and Athletic Directors.

F. OUTDOOR MONITORING

The IPM plan will follow a Quarterly evaluation schedule. When pests are present, Station Avenue Elementary School has chosen an **OUTDOOR monitoring schedule that consists of Monthly inspections**. When pests are absent the **OUTDOOR monitoring schedule will consist of Monthly inspections**.

The following technique will be used to monitor for pests: The Asst. Facility Mgr. SF will conduct regular pest monitoring and would then instruct the IPM Coordinator, as to the proper course of action

G. COURSE OF ACTION TAKEN FOR OUTDOOR PESTS

Outdoor property includes the turf, landscaping, and the outdoor grounds such as building exterior, playground equipment, etc.. Station Avenue Elementary School has prepared maps of the outdoor facility and identified the following priority areas for maintenance:

Landscaping

Station Avenue Elementary School has historically observed. 1. Pests 2. Weeds 3. Funguses 4. Wasps and Hornets 5. Mosquitoes All have been found in or on the athletic fields. The pests have been identified as Japanese Beetle Grubs Wasps and Hornets (Yellow Jackets). The weeds have been identified as clover, dandelions, crabgrass and plantain. The funguses have been identified as leaf spot, pink snow mold, gray snow mold, dollar spot and red thread. All of which appear during the growing season. The presents of these pests, weeds and funguses have been seen and identified by the Asst. Facility Mgr.

OutdoorGrounds

Athletic fields

The following pests have historically and/or currently been a problem at Station Avenue Elementary School:

TURF PESTS	LANDSCAPING AND PLANT PESTS	OUTDOOR GROUNDS PESTS
	Insects and Related Pests	**Pests**
	Gypsy Moth	Ants
		Mosquitoes & Flies
	Tree and Shrub Diseases	**Insects in playground area (if applicable)**
	Blight	Yellow Jackets
	Other	**Other**
	Bees, hornets, wasps.	

LANDSCAPE MANAGEMENT PLAN

The following areas are priority areas for maintenance: Station Avenue Elementary School has historically observed. 1. Pests 2. Weeds 3. Funguses 4. Wasps and Hornets 5. Mosquitoes All have been found in or on the athletic fields. The pests have been identified as Japanese Beetle Grubs Wasps and Hornets (Yellow Jackets). The weeds have been identified as clover, dandelions, crabgrass and plantain. The funguses have been identified as leaf spot, pink snow mold, gray snow mold, dollar spot and red thread. All of which appear during the growing season. The presents of these pests, weeds and funguses have been seen and identified by the Asst. Facility Mgr.

Cultural Practices

Monitoring Program:
Current control of funguses have been successful with the timing of fertilizer. The control of weeds has not been effective. The control of Japanese Beetle Grubs has somewhat successful with the use of chemicals. The control of Wasps and Hornets has been somewhat successful by keeping barrels clean and emptied on a regular basis. We tried lids on field barrels but they disappear. Inspection of dumpsters and having them cleaned on a regular basis. Nests hanging from trees and buildings are disposed of by Waltham Services, Inc.. Reports will be generated by the Asst. Facility Mgr.and sent to the IPM coordinator.

Soil Maintenance:
None

Fertilizer Use Practices:
Slow release fertilizer for soil.

Plant Care:
Mulch

Watering:
In ground irrigation - no chemigation.

Tree and Shrub Diseases
Blight

Describe the monitoring technique you used for the pests above.
Visual

Provide information on how you diagnosed the pests above.
Visual

Provide details on the non-chemical control measures have you taken to manage the pests above.

Physical remove

If you use fungicides, describe your rationale for using them in for the pests above.
None

Describe or identify any alternative management or biological strategies being used or planned to be used
None

Insects and Related Pests
Gypsy Moth

Describe the monitoring technique you used for the pests above.
Visual

Provide information on how you identified the species of the pests above.
Color, size, prior dealings with pest.

Provide details on the non-chemical control measures you have taken to manage the pests above.
Physical removal of nests.

If you use insecticides, describe your rationale for using them for the pests above.
None

Describe or identify any alternative management or biological strategies being used or planned to be used
None

Pesticide Product Name	Active Ingredient	EPA Registration Number	Target Pest	Rationale for use
Advion Ant Gel	Indoxacarb	100-1498	ants	nuisance control
Contrac with Lumitrack	Bromodiolone	12455-133	rodents	public health
Delta Dust	Deltamethrin	432-772	varied	public health
First Strike Soft Bait Rodenticide	Difethialone	7173-258	rodents	public health
Recruit HD	noviflumuron	62719-608	termites	used to control termites
Recruit IV Termite bait	noviflumuron	62791-453	termites	used to control termites
PT Wasp Freeze	Phenothrin/Allethrin	499-362	stinging insects	public health

Suspend SC	Deltamethrin	432-763	varied insects	public health
Talstar P	Bifenthrin	279-3206	varied insects	public health
Tempo 1% Dust	Cyfluthrin	432-1373	stinging insect	public health
Essentria IC3	Plant Oils	25B	varied insects	public health
Essentria D	Plant Oils	25B	varied insects	public health
EcoExempt Jet	Plant Oils	25B	stinging insects	public health
Eco Via EC	Plant Oils	25B	varied insects	public health
Altosid Pellets WSP	(S)-Methoprene	2724-448	Mosquitoes	Safety
Aquabac G	Bacillus thuringiensis	62637-3	Mosquitoes	Safety
Aquabac XT	Bacillus thuringiensis	62637-1	Mosquitoes	Safety
Vectolex WSP	Bacillus Spaericus	275-77	Mosquitoes	Safety
Contrac Bulk Pellets	Bromadiolone	12455-36	Rodents	Health and Safety

- Insecticides are only applied by a certified and/or licensed applicator.
- Insecticide Use is documented in the **STANDARD WRITTEN NOTIFICATION FORM.**

Weeds

Describe the monitoring technique you used for the pests above.
Visual Mosquitoes: Personnel from Cape Cod Mosquito Control Project will monitor stagnant water, including catch basins, on a regular basis between April and October. When larval levels reach the action threshold, a category four larvicide will be used for treatment. No applications would be made while children were present on school property.

Provide information on how you identified the species of the pests above.
Past practice

Provide details on the non-chemical control measures have you taken to manage the pests above.
Physically remove

If you use herbicides, describe your rationale for using them for the pests above.

Describe or identify any alternative management or biological strategies being used or planned to be used

None

Pesticide Product Name	Active Ingredient	EPA Registration Number	Target Pest	Rationale for use
Roundup Ultra		#524-745	weeds	only if necessary

- Herbicides are only applied by a certified and/or licensed applicator.
- Herbicide Use is documented in the **STANDARD WRITTEN NOTIFICATION FORM.**

OUTDOOR MANAGEMENT PLAN

The following areas are priority areas for maintenance: Athletic fields

Cultural Practices

OUTDOOR GROUNDS GENERAL MANAGEMENT PRACTICES

Waste Disposal (trash containers and dumpsters):
Barrels emptied weekly Steam cleaned as needed

Light Management:
Energy Management timers

Excess Water Prevention:
Drains are cleaned annually

Noxious Weed Management:
Physical removal

Playgrounds (if applicable):
Monitored and removed as necessary

Nuisance weeds in pavement:
Physical removal (Round-up if necessary)

Storage Sheds (If applicable):
None

Insects observed in and around outdoor grounds of school property.
Ants
Mosquitoes & Flies

Pests
Ants
Mosquitoes & Flies

Insects in playground area (if applicable)
Yellow Jackets

Describe the monitoring technique you used for the pests above.
Monitored monthly Mosquitoes: Personnel from Cape Cod Mosquito Control Project will monitor stagnant water, including catch basins, on a regular basis between April and October. When larval levels reach the action threshold, a category four larvicide will be used for treatment. No applications would be made while children were present on school property.

Provide information on how you identified the species of the pests above.

Waltham Services Inc.

Provide details on the non-chemical control measures you have taken to manage the pests above.

Keep areas clean from garbage and debris

If you use insecticides, describe your rationale for using them for the pests above.

Non applicable

Pesticide Product Name	Active Ingredient	EPA Registration Number	Target Pest	Rationale for use
Advion Ant Gel	Indoxacarb	100-1498	ants	nuisance control
Contrac with Lumitrack	Bromodiolone	12455-133	rodents	public health
Delta Dust	Deltamethrin	432-772	varied	public health
First Strike Soft Bait Rodenticide	Difethialone	7173-258	rodents	public health
Recruit HD	noviflumuron	62719-608	termites	used to control termites
Recruit IV Termite bait	noviflumuron	62719-453	termites	used to control termites
PT Wasp Freeze	Phenothrin/Allethrin	499-362	stinging insects	public health
Suspend SC	Deltamethrin	432-763	varied insects	public health
Talstar P	Bifenthrin	279-3206	varied insects	public health
Tempo 1% Dust	Cyfluthrin	432-1373	stinging insect	public health
Essentria IC3	Plant Oils	25B	varied insects	public health
Essentria D	Plant Oils	25B	varied insects	public health
EcoExempt Jet	Plant Oils	25B	stinging insects	public health
Eco Via EC	Plant Oils	25B	varied insects	public health
Altosid Pellets WSP	(S)-Methoprene	2724-448	Mosquitoes	Safety
Aquabac G	Bacillus thuringiensis	62637-3	Mosquitoes	Safety

Aquabac XT	Bacillus thuringiensis	62637-1	Mosquitoes	Safety
Vectolex WSP	Bacillus Spaericus	275-77	Mosquitoes	Safety
Contrac Bulk Pellets	Bromadiolone	12455-36	Rodents	Health and Safety

- Insecticides are only applied by a certified and/or licensed applicator.
- Insecticide Use is documented in the **STANDARD WRITTEN NOTIFICATION FORM.**

Weeds

Noxious weeds noticed on the school grounds

Describe the monitoring technique you used for the pests above.

Provide information on how you identified the species of the pests above.

Provide details on the non-chemical control measures have you taken to manage the pests above.

If you use herbicides, describe your rationale for using them for the pests above.

H. RECORD KEEPING

In the case of Station Avenue Elementary School, OUTDOOR monitoring records will be maintained through: The use of forms which will be filled out by the person monitoring the facility

I. EVALUATING THE PROGRAM

The IPM plan will be evaluated on a Quarterly basis.

J. NOTIFICATION REQUIREMENTS & EXEMPTIONS

During the creation of this IPM plan, Sandra J. Cashen has assigned committee member Steven Faucher with the responsibility of assembling and issuing all the documents that accompany the standard written notification whenever pesticides are applied outdoors.

K. IN THE EVENT OF A HEALTH EMERGENCY

During the creation of this IPM plan, Sandra J. Cashen has assigned committee member Steven Faucher with the responsibility of applying for an emergency waiver.

L. LIST OF PESTICIDES TO BE USED OUTSIDE THE FACILITY

The following list includes all the pesticides that will be used outside Station Avenue Elementary School. This list includes all herbicides, fungicides, and insecticides that will be used in the event that chemical is required.

Pesticide Product Name	Active Ingredient	EPA Registration Number	Target Pest	Rationale for use
Altosid Pellets WSP	(S)-Methoprene	2724-448	Mosquitoes	Safety
Advion Ant Gel	Indoxacarb	100-1498	ants	nuisance control
Altosid Pellets WSP	(S)-Methoprene	2724-448	Mosquitoes	Safety
Vectolex WSP	Bacillus Spaericus	275-77	Mosquitoes	Safety
Contrac with Lumitrack	Bromodiolone	12455-133	rodents	public health
Delta Dust	Deltamethrin	432-772	varied	public health
First Strike Soft Bait Rodenticide	Difethialone	7173-258	rodents	public health
Recruit HD	noviflumuron	62719-608	termites	used to control termites
Recruit IV Termite bait	noviflumuron	62791-453	termites	used to control termites
PT Wasp Freeze	Phenothrin/Allethrin	499-362	stinging insects	public health

Suspend SC	Deltamethrin	432-763	varied insects	public health
Talstar P	Bifenthrin	279-3206	varied insects	public health
Tempo 1% Dust	Cyfluthrin	432-1373	stinging insect	public health
Essentria IC3	Plant Oils	25B	varied insects	public health
Essentria D	Plant Oils	25B	varied insects	public health
EcoExempt Jet	Plant Oils	25B	stinging insects	public health
Eco Via EC	Plant Oils	25B	varied insects	public health
Aquabac G	Bacillus thuringiensis	62637-3	Mosquitoes	Safety
Roundup Ultra		#524-745	weeds	only if necessary
Contrac Bulk Pellets	Bromadiolone	12455-36	Rodents	Health and Safety
Contrac Bulk Pellets	Bromadiolone	12455-36	Rodents	Health and Safety
Aquabac G	Bacillus thuringiensis	62637-3	Mosquitoes	Safety
Aquabac XT	Bacillus thuringiensis	62637-1	Mosquitoes	Safety
Vectolex WSP	Bacillus Spaericus	275-77	Mosquitoes	Safety
Advion Ant Gel	Indoxacarb	100-1498	ants	nuisance control
Contrac with Lumitrack	Bromodiolone	12455-133	rodents	public health
Delta Dust	Deltamethrin	432-772	varied	public health
First Strike Soft Bait Rodenticide	Difethialone	7173-258	rodents	public health
Recruit HD	noviflumuron	62719-608	termites	used to control termites
Recruit IV Termite bait	noviflumuron	62719-453	termites	used to control termites
PT Wasp Freeze	Phenothrin/Allethrin	499-362	stinging insects	public health
Suspend SC	Deltamethrin	432-763	varied insects	public health
Talstar P	Bifenthrin	279-3206	varied insects	public health

Tempo 1% Dust	Cyfluthrin	432-1373	stinging insect	public health
Essentria IC3	Plant Oils	25B	varied insects	public health
Essentria D	Plant Oils	25B	varied insects	public health
EcoExempt Jet	Plant Oils	25B	stinging insects	public health
Eco Via EC	Plant Oils	25B	varied insects	public health
Aquabac XT	Bacillus thuringiensis	62637-1	Mosquitoes	Safety

M. WELL WATER SYSTEM

The school does not have its own on site well water system.

I attest, to the best of my knowledge, that the above information is complete, accurate and true

Sandra J. Cashen 10/25/18

IPM Coordinator Signature — Date 10/12/18

Administrator, Director, or Principal — Date 10/12/18

Outdoor IPM Plan originally submitted on: 2/1/2008 3:32:00 PM

Plan updated by Sandra J. Cashen on: 6/8/2018 6:30:00 AM