

**Landscape IPM Workshop**  
**April 25, 2024**

# **Pesticides Toxicity Control Requirements in the Municipal Regional Permit**

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# Overview of Presentation

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- Background - Stormwater and Pesticides
- Stormwater Regulations and the “Municipal Regional Permit (MRP)”
- Pesticide Control Requirements in the MRP

# Stormwater Pollution

- Pollutants entering the storm drain system flow to local creeks and the Bay with no treatment.
- Many activities can cause stormwater pollution.
- In Santa Clara Valley, 13 cities and towns, the County of Santa Clara, and Valley Water work together through SCVURPPP to prevent stormwater pollution.



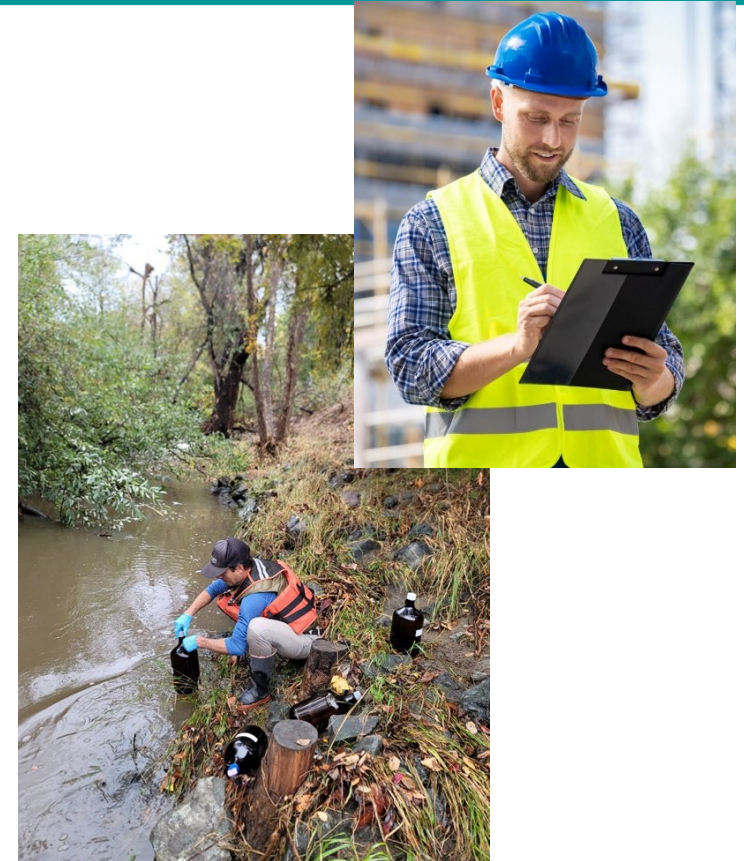
# Stormwater Regulations

- In the San Francisco Bay Area, stormwater discharges are regulated by the San Francisco Regional Water Quality Control Board through the Municipal Regional Stormwater Permit (MRP).
- The MRP covers 79 agencies in the San Francisco Bay Area.
- SCVURPPP agencies (permittees) are part of the MRP.



# Municipal Regional Stormwater Permit

- Includes requirements for controlling urban runoff pollutants – litter, sediment, metals, pesticides, etc.
- Describes programs that permittees have to implement – inspections, public outreach, monitoring etc.
- Permit Provision C.9 – Pesticide Toxicity Control



# Pesticides Toxicity Control

- Provision C.9 of the MRP requires Permittees to:
  - implement a pesticides control program.
  - use **Integrated Pest Management** to help reduce pesticide discharges in stormwater runoff



# Pesticides of Concern

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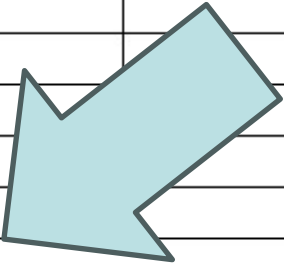
- Many commonly used pesticides are known to negatively impact water quality in urban creeks.
- Active ingredients listed in the MRP as pesticides of concern:
  - Diuron
  - Indoxacarb
  - Fipronil
  - Diamides
  - Organophosphates
  - Pyrethroids
  - Carbamates
  - Neonicotinoids

# MRP Provision C.9

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- **Implement IPM Policy and Standard Operating Procedures**
  - Ensure staff and contractors implement IPM Policy and SOPs
  - Track and report pesticides of water quality concern in the Stormwater Annual Report
  - Implement and report two IPM Strategies in each Stormwater Annual Report

Trends in Quantities and Types of Pesticide Active Ingredients Used <sup>1</sup>					
Pesticide Category and Specific Pesticide Active Ingredient Used	Amount <sup>2</sup> of Active Ingredient				
	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27
<b>Organophosphates</b>					
Active Ingredient Chlorpyrifos					
Active Ingredient Diazinon					
Active Ingredient Malathion					
<b>Pyrethroids (see footnote #2 for list of active ingredients)</b>					
Active Ingredient Type X					
Active Ingredient Type Y					
<b>Carbamates</b>					
Active Ingredient Carbaryl					
Active Ingredient Aldicarb					
<b>Indoxacarb</b>					
<b>Diuron</b>					
<b>Diamides</b>					
Active Ingredient Chlorantraniliprole					
Active Ingredient Cyantraniliprole					
<b>Neonicotinoids</b>					
Active Ingredient Imidacloprid					
Active Ingredient Acetamiprid					
Active Ingredient Dinotefuran					
<b>Fipronil</b>					



Reasons for increases in use of pesticides that threaten water quality:

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Pesticide of Concern	Active Ingredient	Total Used				
		fl oz	oz	gal	mg	lbs
Diamides	CHLORANTRANILIPROLE	0	0	0	0	0
Diamides	CYANTRANILIPROLE	0	0	0	0	0
Diuron	DIURON	0	0	0	0	0
Fipronil	FIPRONIL	0	0	0	0	0
Indoxacarb	INDOXACARB	0	0	0	0	0
Organophosphates	DIAZINON	0	0	0	0	0
Organophosphates	CHLORPYRIFOS	0	0	0	0	0
Organophosphates	MALATHION	0	0	0	0	0
Pyrethroids	METOFLUTHRIN	0	0	0	0	0
Pyrethroids	BIFENTHRIN	0	0	0	0	0
Pyrethroids	CYFLUTHRIN	0	0	0	0	0
Pyrethroids	BETA-CYFLUTHRIN	0	0	0	0	0
Pyrethroids	CYPERMETHRIN	0	0	0	0	0
Pyrethroids	(S)-CYPERMETHRIN	0	0	0	0	0
Pyrethroids	ALPHA-CYPERMETHRIN	0	0	0	0	0
Pyrethroids	DELTAMETHRIN	0	0	0	0	0
Pyrethroids	ESFENVALERATE	0	0	0	0	0
Pyrethroids	LAMBDA-CYHALOTHRIN	0	0	0	0	0
Pyrethroids	PERMETHRIN	0	0	0	0	0
Pyrethroids	PERMETHRIN, OTHER RELATED	0	0	0	0	0
Carbamates	CARBARYL	0	0	0	0	0
Carbamates	ALDICARB	0	0	0	0	0
Neonicotinoids	IMIDACLOPRID	0	0	0	0	0
Neonicotinoids	ACETAMIPRID	0	0	0	0	0
Neonicotinoids	THIAMETHOXAM	0	0	0	0	0

Tracking Metadata ProductList Summary LookupLists DPR LookupList DuplicateNames

# SCVURPPP Pesticide Tracking Tool



# MRP Provision C.9

- **Municipal Staff Training**
  - Provide IPM training to staff that apply pesticides
  - Annually, report number of these staff trained
- **Municipal Contractors**
  - Require contractors to implement IPM
  - Monitor contractor activities to ensure compliance



# MRP Provision C.9

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- **Work with Regulatory Agencies**
  - Encourage them to include water quality impacts in the pesticide registration process
- **Coordinate with Ag. Commissioners**
  - Report violations
  - Obtain advice
- **Conduct Evaluation**
  - Evaluate municipal pesticide control activities
  - Report with FY 24-25 Annual Report

# SCVURPPP Pesticide Outreach



Media advertising

[www.MyWatershedWatch.org](http://www.MyWatershedWatch.org)



SCV Green Gardener Training



Point-of-purchase outreach



# For more information...

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[www.scvurppp.org](http://www.scvurppp.org)

[www.MyWatershedWatch.org](http://www.MyWatershedWatch.org)

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