



# Landscaping Guide Best Management Practices (BMPs)

While plants can provide many benefits for stormwater management, such as erosion control and soil and groundwater pollution remediation, landscaping activities can negatively impact our local streams and the ocean.

Excessive organic material in water bodies, like green waste and fertilizer, increase nitrogen levels and tips the balance in favor of algae overgrowth. Algal blooms rob the water of oxygen and thereby cause death of aquatic life.

Chemicals such as pesticides can be carried away by stormwater runoff, transported to the nearest storm drain, and flow out to the ocean.

Implementing Best Management Practices (BMPs) for landscaping operations featured in this guide can help reduce pollution and protect our water.

## COMMON LANDSCAPING POLLUTANTS

- ✓ Green Waste
- ✓ Pesticides
- ✓ Fertilizer
- ✓ Oil, Grease, Gasoline and Diesel
- ✓ Sediment
- ✓ Trash

## CLEANUP AND DISPOSAL OF GREEN WASTE

- Collect and dispose of green waste to prevent dispersal by wind, rain or irrigation water runoff
- Never blow or wash green waste into the street or storm drain inlets
- Use mulch and other cover material to retain moisture and minimize the need for excess irrigation
- Keep material stockpiles covered, away from storm drain inlets, and out of the street



## PROTECT OUR WATER

- M Ā L A M A I K A W A I -

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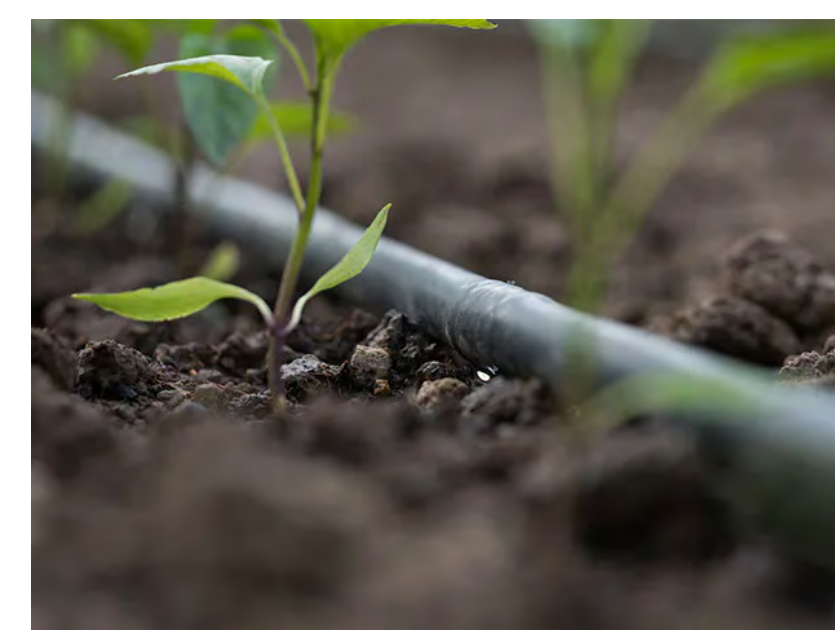
### PESTICIDES & FERTILIZER



- Avoid applying pesticides or fertilizers before an expected rain event, or during high winds
- Utilize targeted spot treatment application to avoid over spraying and off-target applications
- Mix and use only what you need and select a pesticide specifically for the pest to be controlled
- Implement an Integrated Pest Management (IPM) program which uses biological and agricultural controls to manage pests, promote healthy plants, and reduce risks to human health and the environment
- Use all lawn and garden products according to the manufacturer's instructions

### IRRIGATION & RUNOFF

- Avoid over-watering
- Locate and position irrigation heads to minimize runoff and spraying of impervious surfaces
- Use an evapotranspiration-based irrigation schedule and rain sensors
- Regularly inspect irrigation system for leaks
- Using smart controllers for irrigation systems, which adjust irrigation actions based on weather conditions, help get the most out of each rainfall event while not generating excess runoff



### CHEMICAL STORAGE, MAINTENANCE & FUELING

- Properly handle and store chemical products in accordance with their Safety Data Sheets (SDS)
- Ensure storage areas are designed to contain spills
- Never dump chemicals down storm drains, sinks, sewers, gutters, or onto soil; dispose of waste properly
- Keep a spill kit nearby containing absorbent materials for dry method clean up (sand, kitty litter, or sawdust)
- Handle gasoline, diesel, oil and grease cautiously and use a funnel and/or spout to prevent spilling when fueling
- Keep landscape maintenance equipment in good running condition to eliminate leaks



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