

EXHIBIT B-5.II



Municipal Activities Program

Fixed Facility Model Maintenance Procedure Training

**Fixed Facility Model Maintenance
Procedure Training**



Module B-5.II

**Audience: Municipal Facility
Managers/Superintendents**
Time: 3 hours






**Fixed Facility Model
Maintenance Procedure
Training**

Name
Affiliation
Location
Date



Introduction



Introduction

**Water Resources are
Crucial to Orange County**

Water provides recreation
for Orange County
residents.



It attracts tourists,
boosting the local
economy.






It is home to many
types of wildlife.

Introduction

Potential Impacts




- Urban runoff and stormwater pollution can impact the ocean, beaches and creeks, harming wildlife and impairing peoples' ability to enjoy the water.



Introduction

Sources of Pollution


- Homes
- Businesses
- Construction sites
- Municipal facilities



Introduction

Path of Pollutants

- Potential pollutants may run off driveways, streets and gutters into stormdrains.
- The stormdrains lead to creeks and rivers, where pollutants can flow untreated into the ocean.




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Introduction

It's Everyone's Responsibility

- Urban runoff and stormwater pollution is not just a coastal issue-it starts in all regions of the community and affects water quality from the mountains to the ocean.



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Introduction

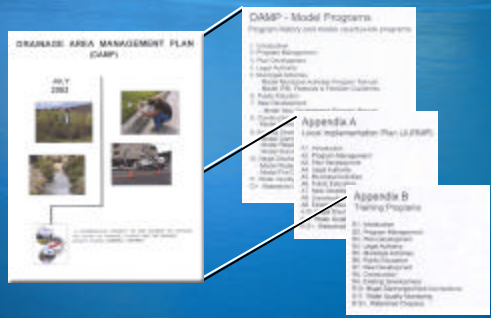
It's Your Responsibility

- Everyone must help to reduce urban runoff and stormwater pollution.
- This training will help explain what you can do while conducting fixed facility maintenance to help implement the Orange County Stormwater Program.

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Introduction

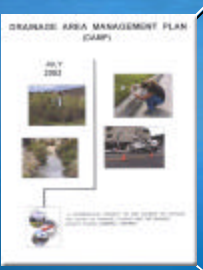
OC Stormwater Program



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Introduction

Program Elements



DAMP - Model Programs
Program history and model countywide programs

1. Introduction
2. Program Management
3. Plan Development
4. Legal Authority
5. Municipal Activities
6. Public Education
7. New Development
8. Construction
9. Existing Development
10. Illegal Discharges/Illicit Connections
11. Water Quality Monitoring - SDR/ SAR
12. Watershed Chapters

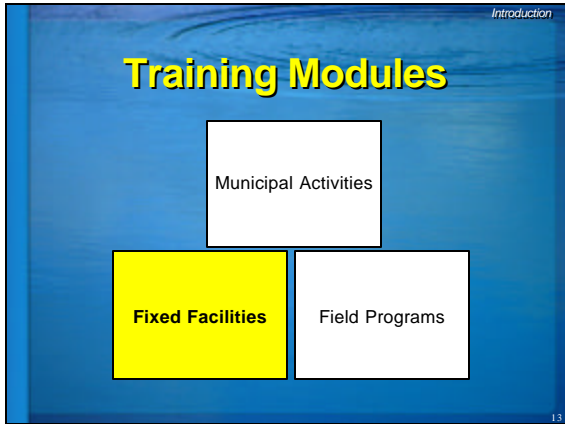
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Introduction

Training Outline

- Introduction
- Training Goal
- Fixed Facilities
- Model Maintenance Procedures for Fixed Facility Activities
- Questions

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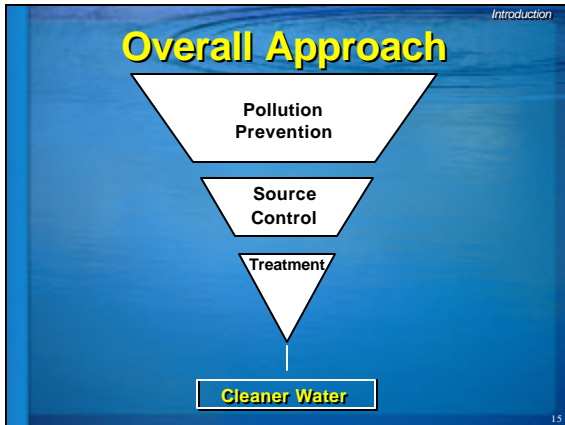


Introduction

Training Goal

Introduce Model Maintenance Procedures for Fixed Facility activities

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Introduction

Regional Board Boundaries within Orange County

Region	Watershed	Identifier
Region 8 Santa Ana	CoyoteCreek	A
	Carbon Canyon	B
	Westminster	C
	Talbert	D
	Santa Ana River	E
	San Diego Creek	F
	Newport Bay	G
	Los Trancos / Muddy Creek	H
Region 9 San Diego	Laguna Canyon	I
	Aliso Creek	J
	Salt Creek	K
	San Juan Creek	L
	Prima Deshecha & Segunda Deshecha	M

The Watersheds of Orange County

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Fixed Facilities

Stationary, municipally owned and operated site at which municipal activities occur

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Fixed Facilities

Fixed Facilities



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Fixed Facilities

Fixed Facilities

Main Facility Type	Sub-Category Facility Types
Municipal Waste Facilities	Active or Closed Municipal Landfills
	Publicly Owned Treatment Facilities
	Incinerators
	Solid Waste Transfer Facilities
	Land Application Sites
	Sites for Disposing and Treating Sewage Sludge
	Hazardous Waste Treatment, Disposal, and Recovery Facilities
Uncontrolled Sanitary Landfills	

Based on Table 5.1, DAMP

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Fixed Facilities

Fixed Facilities

Main Facility Type	Sub-Category Facility Types
Corporation Yards	Corporation Yards
	Maintenance Yards
	Storage Yards for Materials

Based on Table 5.1, DAMP

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Fixed Facilities

Fixed Facilities

Main Facility Type	Sub-Category Facility Types
Other Municipal Owned and/or Operated Facilities	Airfields (Landside Operations)
	Parks and Cemeteries
	Public Buildings (Police, Fire, Libraries, etc.)
	Stadiums
	Stables
	Boat/Shipping Yards
	Animal Shelters/Services
	Public Parking Facilities
	Other Facilities Identified by the Municipality

Based on Table 5.1, DAMP

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Fixed Facility Activities

Numerous activities take place at Fixed Facilities that may impact water quality.

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Fixed Facilities

Fixed Facility Activities

Bay/Harbor Activities	On Board Maintenance Disposal of Wastewater and Ballast Water Cleaning, Chipping, and Painting
Building Maintenance and Repair	Building Maintenance Material Storage Building Cleaning Graffiti Cleaning Painting
Equipment Maintenance and Repair	General Maintenance and Repair Vehicle and Machine Repair Waste Handling/Disposal
Fueling	
Landscape Maintenance	Mowing, Trimming, and Planting Irrigation Fertilizer and Pesticide Management Managing Landscape Waste Erosion Control
Material Loading & Unloading	
Material Storage, Handling, & Disposal	Materials Storage Chemical Material Handling and Disposal Hazardous Material Handling and Disposal

Based on Table 5.5, DAMP

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Fixed Facilities

Fixed Facility Activities

Minor Construction	General Construction Activities Interim Material Storage Concrete Work Building Work
Parking Lot Maintenance	Sweeping and Cleaning Surface Repair
Spill Prevention Control	Preparation and Prevention Spill Response Reporting Training
Vehicle and Equipment Cleaning	
Vehicle and Equipment Storage	Storing Vehicles and Equipment Wrecked Vehicle Storage Clearing Storage Areas
Waste Handling and Disposal	Litter Control Waste Collection Spill/Leak Control Run-on/Runoff Prevention

Based on Table 5.5, DAMP

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Fixed Facilities

Fixed Facility Activities

- Fixed Facilities may be leased to other parties.
- Lessors must protect water quality while performing activities.
- Lessors must implement Model Maintenance Procedures as well.

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Fixed Facilities

Fixed Facility Activities

- Activities at Fixed Facilities must be performed in a manner that is protective of water quality.
- Model Maintenance Procedures have been developed.

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Questions ?

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Model Maintenance Procedures





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Model Maintenance Procedures

Model Maintenance Procedures (MMP)

- Designed to reduce the impact of municipal activities on water quality
- Contain Best Management Practices (BMP) for water quality protection

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Model Maintenance Procedures

MMPs for Fixed Facilities

- Bay/Harbor Activities
- Building Maintenance and Repair
- Equipment Maintenance and Repair
- Fueling
- Landscape Maintenance
- Material Loading and Unloading
- Material Storage, Handling and Disposal
- Minor Construction
- Parking Lot Maintenance
- Spill Prevention Control
- Vehicle and Equipment Cleaning
- Vehicle and Equipment Storage
- Waste Handling and Disposal

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Model Maintenance Procedures

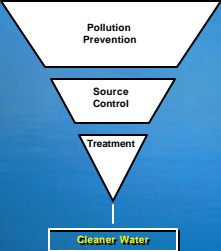
MMP Content

- Includes baseline procedures that must be implemented for all Fixed Facilities
- Includes optional procedures that must be implemented for activities that are deemed a high threat to water quality, or when conditions warrant

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Model Maintenance Procedures

MMP Philosophy



- Provide pollution prevention techniques to keep pollutants from being generated
- Provide source control measures to keep generated "potential pollutants" from becoming "actual pollutants"

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Bay/Harbor Activities



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Bay/Harbor Activities



- Bay/Harbor Activities typically occur on boat/ship repair yards and marinas. Potential pollutants may be:
 - Solvents
 - Oil and grease
 - Bacteria
 - Sediment

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Bay/Harbor Activities

- Model Maintenance Procedures are included for:
 - On Board and General Maintenance
 - Disposal of Wastewater and Ballast Water
 - Cleaning, Chipping, and Painting

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Building Maintenance and Repair



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Building Maintenance and Repair



- Potential pollutants associated with Building Maintenance and Repair are:
 - Oil and grease
 - Hydrocarbons
 - Organic compounds

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Building Maintenance and Repair

- Model Maintenance Procedures are included for:
 - Building Maintenance
 - Material Storage
 - Building Cleaning
 - Graffiti Cleaning
 - Painting

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Equipment Maintenance and Repair



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Equipment Maintenance and Repair



- Potential pollutants associated with equipment and maintenance activities include:
 - Oil and grease
 - Fuel
 - Other fluids

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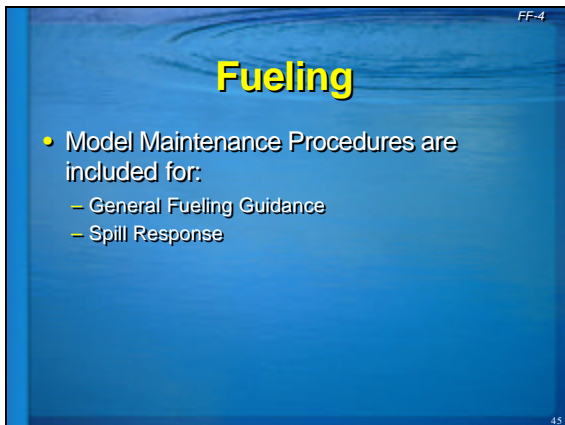
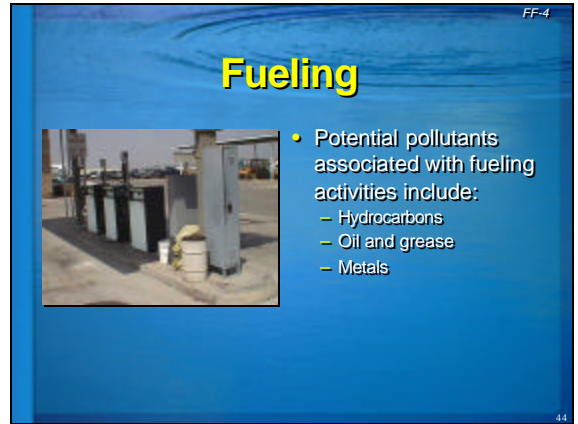
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Equipment Maintenance and Repair


- Model Maintenance Procedures are included for:
 - General Maintenance and Repair
 - Vehicle and Machine Repair
 - Waste Handling/Disposal

FF-3

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Material Loading and Unloading



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Material Loading and Unloading



- Materials being loaded and unloaded have the potential to spill or leak and be carried away by stormwater.

FF-6

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Material Loading and Unloading

- Model Maintenance Procedures are included for:
 - General Loading/Unloading Guidelines
 - Tank Truck Transfers
 - Spill Control
 - Training
 - Inspection

FF-6


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Material Storage, Handling, and Disposal



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Material Storage, Handling, and Disposal



- Stormwater can contact and carry materials.
- Materials have the potential to spread, leak, or spill.

FF-7

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Material Storage, Handling, and Disposal

- Model Maintenance Procedures are provided for:
 - Material Storage
 - Chemical Material Handling and Disposal
 - Hazardous Material Handling and Disposal

FF-7

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Minor Construction



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Minor Construction



- Minor Construction has the potential to generate pollutants such as:
 - Debris
 - Oil and grease
 - Metals

FF-8

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Minor Construction

- Model Maintenance Procedures are provided for:
 - General Construction Activities
 - Interim Material Storage
 - Concrete Work
 - Building Work

FF-8


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Parking Lot Maintenance



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Parking Lot Maintenance



- Any material deposited upon a parking lot has the potential to run off and affect water quality.
- Parking lot runoff can contain pollutants such as:
 - Sediment
 - Oil and grease
 - Hydrocarbons
 - Metals

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Parking Lot Maintenance

- Model Maintenance Procedures are provided for:
 - Sweeping and Cleaning
 - Repair

FF-9

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Spill Prevention and Control



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Spill Prevention and Control

FF-10



- Any material or liquid spill has the potential to impact water quality.

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Spill Prevention and Control

FF-10

- Model Maintenance Procedures are provided for:
 - Preparation/Prevention
 - Spill Response
 - Reporting
 - Training

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Vehicle and Equipment Cleaning



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Vehicle and Equipment Cleaning

FF-11



- Potential pollutants from cleaning vehicles and equipment may include:
 - Oil and grease
 - Detergents
 - Metals
 - Organic compounds

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Vehicle and Equipment Cleaning

FF-11

- Model Maintenance Procedures are provided for:
 - General vehicle and equipment cleaning

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Vehicle and Equipment Storage





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Vehicle and Equipment Storage



- Stored vehicles and equipment can generate:
 - Organic compounds
 - Oil and grease
 - Metals
 - Nutrients
 - Suspended solids

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Vehicle and Equipment Storage

- Model Maintenance Procedures for Vehicle are provide for:
 - Storing Vehicles and Equipment
 - Wrecked Vehicle Storage
 - Cleaning Storage Areas

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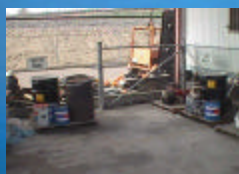
Waste Handling and Disposal





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Waste Handling and Disposal



- Waste materials that may come into contact with stormwater and impact water quality include:
 - Oil and grease
 - Solvents
 - Pesticides
 - Fertilizers


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Waste Handling and Disposal


- Model Maintenance Procedures are provided for:
 - Litter Control
 - Waste Collection
 - Spill/Leak Control
 - Run-on/Runoff Prevention

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Questions ?




PROJECT
Pollution
PREVENTION




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Conclusion



PROJECT
Pollution
PREVENTION



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Conclusion

Conclusion

- Your activities can impact water quality.
- MMMPs are designed to help you perform activities in a manner protective of water quality.
- Lead by example.

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Conclusion

Remember

- Everyone benefits from clean water, and everyone has a responsibility to protect it by reducing urban runoff and stormwater pollution.



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Conclusion

Resources

For more information:
Visit www.ocwatersheds.com
or
Call the Orange County Stormwater
Program at 714-567-6363.

PROJECT
Pollution
PREVENTION




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Conclusion

Thank You!

Thank you for attending and
learning how you can help!

PROJECT
Pollution
PREVENTION



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Conclusion

Handouts

- Meeting Agenda
- Model Maintenance Procedure Fact Sheets
- Hard copy of presentation
- Contact list

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