EXHIBIT B-5.I

Municipal Activities Program

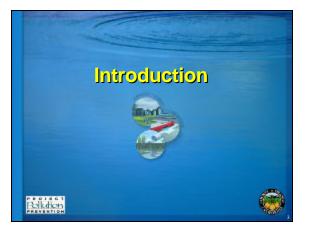
Municipal Activities Program Training



Municipal Activities Program Management Training

Module B-5.1

Audience: Municipal NPDES Program Coordinators Time: 3 hours



Water Resources are Crucial to Orange County



Water provides recreation for Orange County residents.

It attracts tourists, boosting the local economy.



Introduction

Introduction

It is home to many types of wildlife.

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



Path of Pollutants

Introduction

Introductio

- 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.



It's Everyone's Responsibility

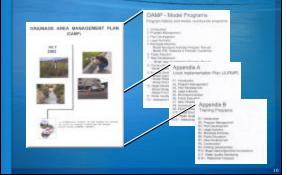
 Urban runoff and stormwater pollution is not just a coastal issue-it starts in all regions of the community and affects water quality from the mountains to the ocean.



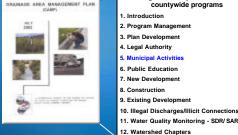
It's Your Responsibility

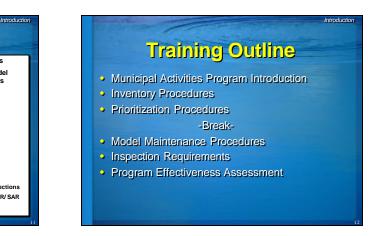
- Everyone must help to reduce urban runoff and stormwater pollution.
- This training will help explain what you can do while conducting municipal activities to help implement the Orange County Stormwater Program.

OC Stormwater Program



DAMP - Model Programs Program history and model country wide programs



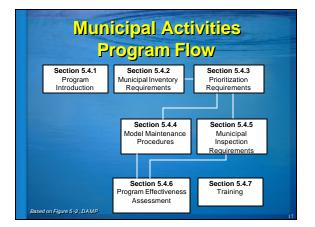


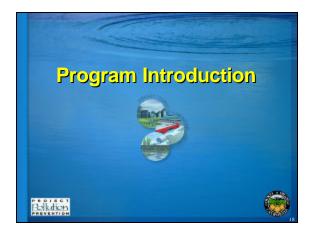
Training	Modules	Introduction
Program Management	Inspection	
Business	НОА	
		13







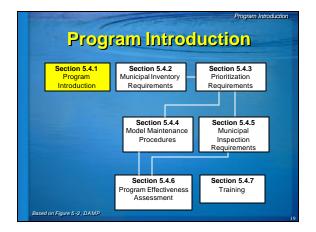




Orange County Stormwater Program DAMP Section B-5 Municipal Activities November 15, 2003

Program Introduction

Program Introduction



Municipal Activities Program

- Model fulfills municipal activity requirements of:
 - Section 5 of the 2003 Orange County Drainage Area Management Plan (DAMP)
 - Section XIV of the Santa Ana Regional Board Municipal stormwater permit
 - Section F.3.a of the San Diego Regional Board Municipal stormwater permit

Program Objectives

Program Introduction

Program Introduction

- · Provide Permittees with:
 - Countywide consistent program for water quality protection
 - A framework for local programs
 - Set of methodologies for Municipal Activities
 Implementation methodologies to meet DAMP and NPDES requirements
 - Iterative process to monitor and respond to problems

Program Applies To

- · Municipal staff performing activities
- Contractors performing work for Permittees
- Lessees managing municipal facilities

Program Definitions

- Fixed Facilities

 Example: Corporation Yard
- Field Programs
 - Example: Road and Street Maintenance
- Drainage Facilities

 Example: Catch basins, open channels





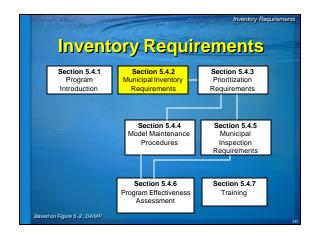


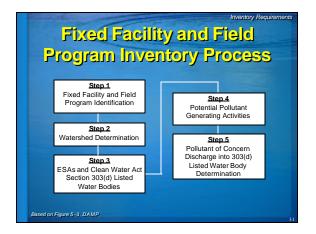
Program Administration and Implementation

- DAMP contains language for overall program administration
- LIP contains
 - Sample program text
 - Directions for customization
 - Forms (inventory, prioritization, inspection)











Inventory Requirements Inventory Process Step 1: Fixed Facility, Field Program, and Drainage Facility Identification

- Fixed Facilities
- Field Programs
- Drainage Facilities

Fixed Facilities

Inventory Requirements

- Municipal Waste Facilities
- Corporation Yards
- Other Municipal Owned and/or Operated Facilities

See DAMP Table 5.1

Field Programs

Inventory Requiremen

- Lake Management
- Landscape Maintenance
- Roads, Streets, and Highways Operations and Maintenance
- Fountains, Plazas, and Sidewalk
 Maintenance and Cleaning
- Solid Waste Handling
- Water and Sewer Utility Operations and Maintenance

See DAMP Table 5.6

Drainage Facilities • Flood Management Projects and Flood

- Flood Wanagement Projects and Flood Control Devices
- Drainage Systems

See DAMP Table 5.8

Inventory Requirement



Inventory Process

Inventory Requirements

Inventory Requirement

Step 3: Environmentally Sensitive Areas (ESAs) and Clean Water Act Section 303(d) Listed Water Bodies

- Determine the Facilities and Programs that are:
 - Within or adjacent to, or
 - Discharge directly to an ESA

ESA Designation

Inventory Requirements

- An ESA exists if the following designations apply
 - Clean Water Act 303(d) impaired water body
 Area of Special Biological Significance by the SWRCB
 - Area of Special Biological Significance by the – RARE beneficial use by the SWRCB
 - Preserves or equivalent under the Natural Community Conservation Planning Program
 - Critical Aquatic Resources
 - Other equivalent ESAs identified by the Permittees
 - An ESA exists if the following designations apply
- Web link from www.ocwatersheds.com under development

303(d) Listed Water Bodies

- Table 5.3: Summary of 1998 303(d) listed water bodies
- Table 5.4: Summary of proposed 2002 303(d) listed water bodies

Inventory Process

Step 4: Potential Pollutant Generating Activities

- Table 5.5 Fixed Facilities Activities
- Table 5.7 Field Programs Activities
- Produce list of activities
- List pollutants of concern

Inventory Requirement

Inventory Process Step 5: Pollutant of Concern Discharge Into

Inventory Requirements

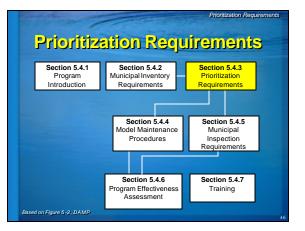
Step 5: Pollutant of Concern Discharge into 303(d) Listed Water Body Determination

 Determine if activities identified in Step 4 potentially discharge pollutants to 303(d) water body for which the water body is impaired

See DAMP Table 5.3







Prioritization Process

Prioritization Requirements

- Prioritizing Fixed Facilities, Field Programs, and Drainage Facilities for Inspection Frequencies
- Evaluation based on criteria in NPDES permits

Fixed Facility Prioritization

- Facilities identified as high priority in NPDES permits are automatically high priority
- For those not identified as high, a ranking system has been developed

Prioritization Requirements

Prioritization Requirements

Prioritization Requirements

High Priority Sites

Prioritization Requirements

Prioritization Requirements

Prioritization Requirements

- Roads, Streets, Highways, and Parking Facilities
- Flood Management Projects and Flood Control Devices
- · Areas and Activities:
 - Tributary to a Clean Water Act Section 303(d) impaired water body, where an area or activity generates pollutants for which the water body is impaired
 - Within, adjacent to, or discharging directly to receiving waters within ESAs

High Priority Sites

- Municipal Waste Facilities
- Areas and Activities that may may contribute a significant pollutant load to an MS4
- Municipal Airfields

Fixed Facility Ranking

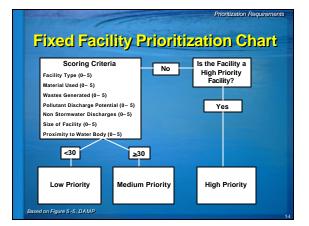
 For Fixed Facilities not automatically high priority, a ranking system has been developed

Fixed Facility Ranking

- Ranking criteria include:
 - Type of facility
 - Materials used
 - Waste generated
 - Pollutant discharge potential
- Non-stormwater discharges
- Size of facility or area
- Proximity to receiving waters

Fixed Facility Ranking

- Score each criterion as 0 through 5, 5 having the highest threat
- Medium priority
 - facilities scoring 30 or more
 - two inspections during first year of program
- Low priority
 - facilities scoring less than 30
 - one inspection during first year of program



Prioritization Requirements

Field Program Prioritization

Prioritization Requirements

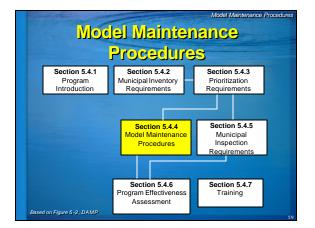
- All Field Programs, by Orange County definition, are considered high priority
- Field Programs should be inspected and evaluated annually

Drainage Facility Prioritization

- All Drainage Facilities, by Orange County definition, are considered high priority
- Maintenance, cleaning, and inspection of all drainage facilities is required annually







Spill Prevention and Response	Vehicle and Equipment Storage
Building Maintenance and Repair	Vehicle and Equipment Cleaning
Parking Lot Maintenance	Material Storage, Handling, and Disposal
Landscape Maintenance	Material Loading and Unloading
Waste Handling and Disposal	Minor Construction
Fueling	Over Water Activities
Equipment Maintenance and Repair	

Model Maintenance Procedure

Model Maintenance Procedure

Roads, Streets, and Highways Operations and Maintenance	Sweeping and Cleaning, etc.
Sidewalk, Plaza, and Fountain Maintenance and Cleaning	Surface Cleaning, etc.
Drainage System Operations and Maintenance	Management of the Municipal Drainage System, etc.
Solid Waste Handling	Solid Waste Collection, etc.
Water and Sewer Utility O&M	Water Line Maintenance, etc.

Model Maintenance Procedu

Model Maintenance Procedures Content

- Model Maintenance Procedures located in the LIP
- Includes baseline procedures that must be implemented
- Includes optional procedures that must be implemented when deemed necessary, or when conditions warrant



Contract and Lease Language

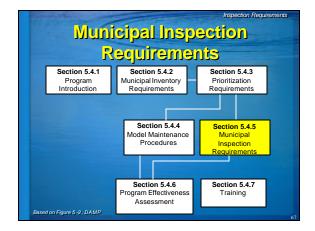
- Example language within DAMP for use in contract and lease situations
 - When a lessor is performing municipal activities, for example, leased stadium activities
 - When a contractor is performing municipal activities, for example, contracted street sweeping





Inspection Requirements

Inspection Requirements



Responsibilities

- Fixed Facilities and Field Programs
 - Stormwater Program Coordinator
 - On-Site Fixed Facility Manager
 - Field Program Superintendent
- Contracted Activities/Leased Facilities
 Stormwater Program Staff

Frequencies

Inspection Requirements

Inspection Requirements

- Inspections based upon permit requirements
- Inspections based upon prioritization

Inspection Frequencies

Facility/Programs	Inspection Frequency
Fixed Facilities	
Municipal Corporation Yards	Quarterly
High Priority Fixed Facility	Annually
Medium Priority Fixed Facility	Biannually During First Year of Program Implementation
Low Priority Fixed Facility	Once During First Year of Program Implementation
Field Programs	
High Priority Field Programs	Annually
Drainage Facilities	
Drainage Facilities (San Diego Permittees)	Annually Before the Wet Season, with Additional Inspections as Needed During the Wet Season
Drainage Facilities (Santa Ana Permittees)	80% of Drainage Facilities Annually, with 100% Included over a Two Year Period

Based on Table 5 - 12, DAMP

Documentation Process

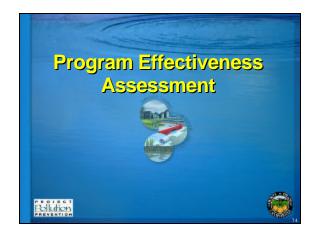
- Model Inspection Form (Appendix A-5)
 - General Inspection Form for general information
 - Activity Specific Inspection Forms
 - Document inspection findings
 - Suggest corrective action plans

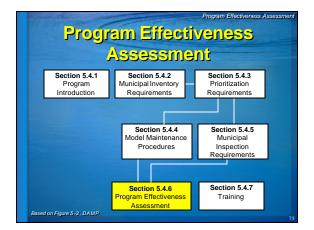
Enforcement

- Municipal Employee Mechanisms
 - Job descriptions
 - Current disciplinary procedures
- Contractor/Lessee Mechanisms
 - Contract
 - Lease

Inspection Requirements



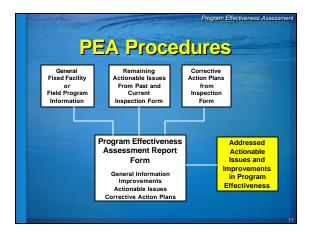




Program Effectiveness Assessment (PEA)

Program Effectiveness Assessme.

- Verifies stormwater program effectiveness
- Submitted annually to Principal Permittee
- Reports:
 - Improvements in water quality protection
 - Program elements in need of improvement
 - Action plans developed for improvements



Program Effectiveness	Asses
CITY OF	
PROGRAM EFFECTIVENESS ASSESSMENT REPORT	
Municipal Fixed Facilities and Field Programs	
Facility / Field Program Name:	-
Address (if applicable):	
Contact person / title:	
Number of Employees:	-
Actionable Issues from Previous Inspection Form:	-
Current Conditions:	-
Actionable Issues Improvements	
	-
Actionable Issues from Current Inspection Form	
Start Date Completion Date	
Corrective Action Plan from Current Inspection Form:	-
	_
nn Table 5-13, DAMP	





PEA Record Keeping

Organizational chart
 List of on-site BMPs
 Map of site location
 Applicable Model

List of site activities

List of potential pollutants

Maintenance Procedures

Training documentation

Each year's forms

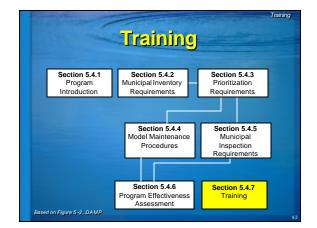
Inspection forms

or boundaries

Diagram of site

drainage and storm sewer system

Program Effectiveness Assessme



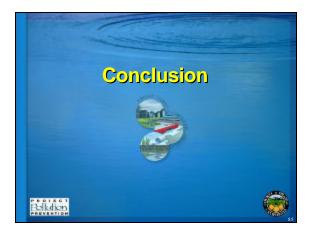
Training Modules

- General Program Management Training
- Fixed Facility Model Maintenance Procedure
 Training
- Field Program Model Maintenance Procedure
 Training
- Integrated Pest Management, Pesticide, and Fertilizer Guidelines
- Integrated Pest Management Approaches



Trainino

Conclusion



Conclusion

- The Municipal Activities Program is a model for fulfilling the inventory, prioritization, best management practice, inspection, and verification requirements of your NPDES permit.
- Program Effectiveness Assessment provides a framework for continuously improving municipal activities with respect to water quality protection.





