

Bridge and Structure Maintenance BMPs

SCVURPPP Muni Ops AHTG

MRP Required BMPs

- Implement appropriate BMPs to prevent discharge of polluted stormwater and non-stormwater into creeks or storm drains
- Prevent all debris and pollutants generated from entering creeks or storm drains
 - Structural materials
 - Coating debris
 - Paint chips



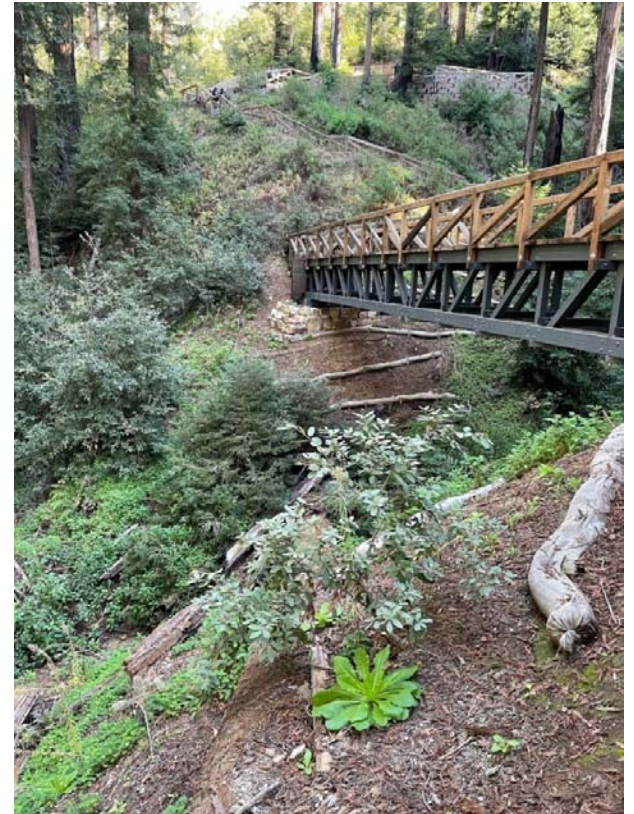
MRP Required BMPs

- Use **proper disposal** methods for wastes generated
 - Sanitary sewer
 - Trash
 - Recycling
 - Hazardous waste
- Train employees
- Specify BMPs in contracts



Example BMPs

- Road Repair and Maintenance applicable BMPs
- Additional BMPs for work over waterways





Objectives

- Cover
- Contain
- Educate
- Reduce/Minimize
- Product Substitution

Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	<input checked="" type="checkbox"/>
Metals	<input checked="" type="checkbox"/>
Bacteria	
Oil and Grease	<input checked="" type="checkbox"/>
Organics	<input checked="" type="checkbox"/>
Oxygen Demanding	<input checked="" type="checkbox"/>

Description

Streets, roads, and highways are significant sources of pollutants in stormwater discharges, and operation and maintenance (O&M) practices, if not conducted properly, can contribute to the problem. Stormwater pollution from roadway and bridge maintenance should be addressed on a site-specific basis. Use of the procedures outlined below, that address street sweeping and repair, bridge and structure maintenance, and unpaved roads will reduce pollutants in stormwater.

Approach

Pollution Prevention

- Use the least toxic materials available (e.g. water based paints, gels or sprays for graffiti removal)
- Recycle paint and other materials whenever possible.
- Enlist the help of citizens to keep yard waste, used oil, and other wastes out of the gutter.

Suggested Protocols

Street Sweeping and Cleaning

- Maintain a consistent sweeping schedule. Provide minimum monthly sweeping of curbed streets.
- Perform street cleaning during dry weather if possible.



- Use appropriate BMPs for material and waste management, clean up, and equipment maintenance.
- Specific *Bridge and Structure Maintenance* section

Patching, resurfacing, and surface sealing

- Schedule patching, resurfacing and surface sealing for dry weather.
- Stockpile materials away from streets, gutter areas, storm drain inlets or watercourses. During wet weather, cover stockpiles with plastic tarps or berm around them if necessary to prevent transport of materials in runoff.
- Pre-heat watercoat
- Where a mesh) at place un evaporat the job i
- Prevent entering excess n
- Use only
- Sweep, r truck. D
- Catch dr under th
- Equi*
- Inspect e heavy eq
- Perform
- If refueli from sto
- Clean equipment including sprayers, sprayer paint supply lines, patch and paving equipment, and mud jacking equipment at the end of each day. Clean in a sink or other area (e.g. vehicle wash area) that is connected to the sanitary sewer.

Bridge and Structure Maintenance

Paint and Paint Removal

- Transport paint and materials to and from job sites in containers with secure lids and tied down to the transport vehicle.
- Do not transfer or load paint near storm drain inlets or watercourses.

- Test and inspect spray equipment prior to starting to paint. Tighten all hoses and connections and do not overfill paint container.
- Plug nearby storm drain inlets prior to starting painting where there is significant risk of a spill reaching storm drains. Remove plugs when job is completed.
- If sand blasting is used to remove paint, cover nearby storm drain inlets prior to starting work.

✓ Perform work on maintenance traveler or platform, or use suspended netting or tarps to capture

- paint,
- rust,
- paint removing agents or
- other materials

✓ If sanding, use a sander with a vacuum filter bag

✓ Capture all clean-up water and dispose properly

Gas or Spray Containers

Repair Work

- Prevent concrete, steel, wood, metal parts, tools, or other work materials from entering storm drains or watercourses.
- Thoroughly clean up the job site when the repair work is completed.
- When cleaning guardrails or fences follow the appropriate surface cleaning methods (depending on the type of surface) outlined in SC-71 Plaza & Sidewalk Cleaning fact sheet.

BMPs When Project Ends

- Clean up area
 - Remove all materials
 - Sweep, vacuum, or other dry methods
- Remove all temporary BMPs
 - Look off site, down the street, around the corner, and the surrounding area.



Contact Information

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