



GrAffiti REmovAL BMPS

SCVURPPP Muni Ops AHTG

Graffiti Removal Techniques



Pressure Washing



Sand Blasting



Painting Over

Potential Pollutants

Wash water

Structural materials

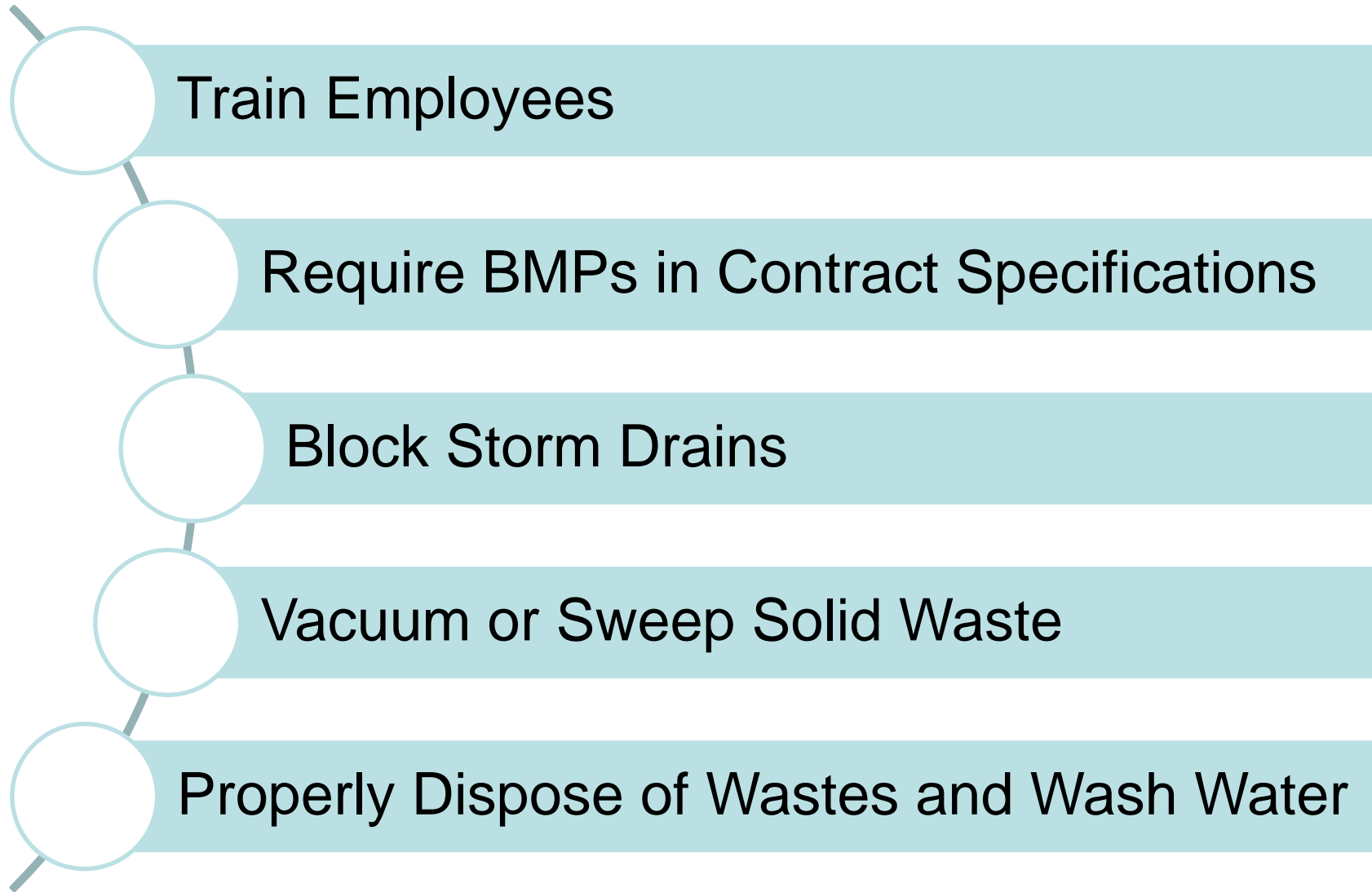
Coating debris

Cleaning compounds

Paint chips

Leftover paint

General BMPs



Specific BMPs for Pressure Washing

- ✓ Check with local wastewater agency before discharging wash water to sanitary sewer
- ✓ Dispose of leftover cleaning solutions as hazardous waste

Specific BMPs for Sand Blasting

- ✓ Use a sander with a vacuum filter bag
- ✓ Collect solid waste by vacuuming or sweeping and dispose of properly
- ✓ Check with local wastewater agency before discharging wash water to sanitary sewer

Specific BMPs for Painting Over

- ✓ Use the least toxic materials available
- ✓ Transport paint in containers with secure lids
- ✓ Inspect equipment for leaks prior to starting to paint
- ✓ Tighten all hoses and connections
- ✓ Properly dispose of leftover paints
- ✗ Do not mix, transfer, or load paint near storm drain inlets
- ✗ Do not overfill paint container



Resources

- CASQA Fact Sheet SC-70 Road and Street Maintenance

scvurpppp.org/members

- SCVURPPP BMP Fact Sheet (mobile graffiti removal businesses)

MyWatershedWatch.org

Road and Street Maintenance	SC-70																
	Objectives <ul style="list-style-type: none">■ Cover■ Contain■ Educate■ Reduce/Minimize■ Product Substitution																
Description <p>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.</p>	Targeted Constituents <table border="1"><tr><td>Sediment</td><td><input checked="" type="checkbox"/></td></tr><tr><td>Nutrients</td><td></td></tr><tr><td>Trash</td><td><input checked="" type="checkbox"/></td></tr><tr><td>Metals</td><td><input checked="" type="checkbox"/></td></tr><tr><td>Bacteria</td><td></td></tr><tr><td>Oil and Grease</td><td><input checked="" type="checkbox"/></td></tr><tr><td>Organics</td><td><input checked="" type="checkbox"/></td></tr><tr><td>Oxygen Demanding</td><td><input checked="" type="checkbox"/></td></tr></table>	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"/>
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"/>																
Approach <p>Pollution Prevention</p> <ul style="list-style-type: none">■ 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. <p>Suggested Protocols</p> <p><i>Street Sweeping and Cleaning</i></p> <ul style="list-style-type: none">■ Maintain a consistent sweeping schedule. Provide minimum monthly sweeping of curbed streets.■ Perform street cleaning during dry weather if possible.																	
January 2003	California Stormwater BMP Handbook Municipal www.cabmphandbooks.com																
	1 of 9																

- 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 a maintenance traveler or platform, or use suspended netting or tarps to capture paint, rust, paint removing agents, or other materials, to prevent discharge of materials to surface waters if the bridge crosses a watercourse. If sanding, use a sander with a vacuum filter bag.
- Capture all clean-up water, and dispose of properly.
- Recycle paint when possible (e.g. paint may be used for graffiti removal activities). Dispose of unused paint at an appropriate household hazardous waste facility.

Graffiti Removal

- Schedule graffiti removal activities for dry weather.
- Protect nearby storm drain inlets prior to removing graffiti from walls, signs, sidewalks, or other structures needing graffiti abatement. Clean up afterwards by sweeping or vacuuming thoroughly, and/or by using absorbent and properly disposing of the absorbent.
- When graffiti is removed by painting over, implement the procedures under Painting and Paint Removal above.
- Direct runoff from sand blasting and high pressure washing (with no cleaning agents) into a landscaped or dirt area. If such an area is not available, filter runoff through an appropriate filtering device (e.g. filter fabric) to keep sand, particles, and debris out of storm drains.
- If a graffiti abatement method generates wash water containing a cleaning compound (such as high pressure washing with a cleaning compound), plug nearby storm drains and vacuum/pump wash water to the sanitary sewer.
- Consider using a waterless and non-toxic chemical cleaning method for graffiti removal (e.g. gels or spray compounds).

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.

- Protect nearby storm drain inlets
- Cleanup by sweeping or vacuuming thoroughly, and/or using absorbent and properly disposing
- Collect runoff from sand blasting and high pressure washing
 - Berm area and/or cover storm drain inlets
 - Vacuum/pump wash water to sanitary sewer with approval
- Use waterless and non-toxic methods

Preventing Storm Drain Pollution

Best Management Practices (BMPs) for Mobile Graffiti Removal Businesses



Storm Drains and the San Francisco Bay

Graffiti is commonly removed by painting over or pressure washing with solvents. When pollutants from graffiti removal activities, such as wash waters, paint, solvents, sediment, and grit, enter storm drain inlets, they flow through the storm drain system to local waterways and the San Francisco Bay without any cleaning or filtering. These pollutants can be toxic to fish, wildlife, and people and should never enter the storm drain.

Help protect the Bay and local creeks by following these Best Management Practices (BMPs).

General Guidance and Good Housekeeping

- Schedule graffiti removal activities during dry weather.
- Do not allow water used for cleaning to enter storm drains or waterways.
- Cover the storm drains (e.g., storm drain mat, a tarp, or other control measure) prior to removing graffiti from walls, signs, sidewalks, or other structures. This prevents solvents, paint waste, wash water, or other pollutants from entering storm drains.
- When charging wash water to the containers, if being used, are
- Chemical cleaning method for graffiti removal (e.g., solvents, acids, or abrasives).
- Remove storm drain covers when job is complete.



Only rain down the storm drain.

Never allow wash water to enter storm drains. Federal, State, and local regulations prohibit any discharges other than rain in the storm drain.



What about non-toxic cleaning products? Cleaning products labeled "non-toxic" can still harm fish and wildlife if they enter a storm drain. Make sure to divert and collect all wash water and contact local programs about proper disposal.

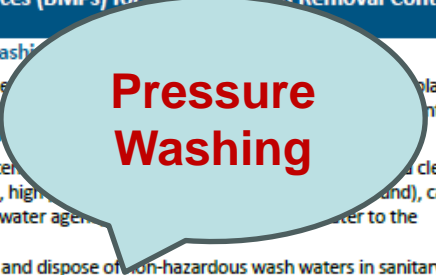
BMPs for Painting Over Graffiti

- Use the least toxic materials available (e.g., water-based paints) and test and inspect equipment for leaks prior to starting to paint.
- Transport paint in containers with secure lids.
- Tighten all hoses and connections.
- Do not overfill paint container.
- Cover nearby storm drain inlets prior to painting.
- Do not mix, transfer, or load paint near storm drain inlets.
- Learn about proper disposal options for paint and hazardous waste disposal by contacting the [Very Small Quantity Generator \(VSQG\) Disposal Program](#) at (800) 207-8222, or visit [hhw.org](#) to learn more.
- Collect waste after cleaning paint equipment or brushes and put into a bucket or drum with a secure lid for transport back to your facility to be reused, recycled, or disposed of properly.

Best Management Practices (BMPs) for Mobile Graffiti Removal Cont.

BMPs for Pressure Washing

- If water must be used to clean polluted areas, collect and contain discharges. Collect and contain cleaning compound (i.e., high alkaline cleaning solution), call the local wastewater agency for information on how to transport to the sanitary sewer.
 - Collect and dispose of non-hazardous wash waters in sanitary sewer cleanout by vacuuming/pumping.
 - Cleaning solutions that cannot be recycled may need to be disposed of as hazardous waste.



Protect the storm drain

BMPs for Sand Blasting

- Cover nearby storm drain inlets prior to starting work. Storm drain covers and similar control measures should be used to prevent material drift from being deposited in storm drains.
- Use a sander with a vacuum attachment to collect solid waste by appropriate container.
- Collect wash water in a tank and pump to a sanitary sewer (after filtering), or dispose as hazardous waste as directed by the local wastewater agency.
- Clean up afterwards by vacuuming or sweeping thoroughly, and/or by using absorbent. Properly dispose of the absorbent.



Contain paint to prevent spills



Collect all wash water

Stormwater Pollution Control Agencies

For more information on preventing stormwater pollution, contact your local agency.

Campbell, Los Gatos, Monte Sereno, Saratoga (West Valley Communities).....	(408) 354-5385	Mountain View.....	(650) 903-6378
Cupertino.....	(408)777-3354	Palo Alto.....	(650) 329-2122
Los Altos.....	(650) 947-2770	San José.....	(408) 945-3000
Los Altos Hills.....	(650) 941-7222	Santa Clara.....	(408) 615-3080
Milpitas.....	(408)586-3365	Unincorporated Santa Clara County.....	(408) 918-4609
		Sunnyvale.....	(408) 730-7260

Wastewater Agencies

All discharges to the sanitary sewer must meet local discharge limits. Contact your local wastewater agency to find out if pretreatment requirements apply to your business.

Cupertino Sanitary District.....	(408) 253-7071
<i>Serving Cupertino</i>	
San José-Santa Clara Regional Wastewater Facility.....	(408) 945-3000
<i>Serving Campbell, Los Gatos, Milpitas, Monte Sereno, San Jose, Santa Clara, Saratoga</i>	
Sunnyvale Water Pollution Control Plant.....	(408) 730-7270
<i>Serving Sunnyvale</i>	
Regional Water Quality Control Plant.....	(650) 329-2598
<i>Serving East Palo Alto Sanitary District, Los Altos, Los Altos Hills, Mountain View, Palo Alto, Stanford</i>	

Contact Information

SCVURPPP Muni Ops AHTG:

Kristin Kerr, P.E., QSD/P

kakerr@eoainc.com

510-832-2852 x122