



Key Components of an Enhanced Street Sweeping Program

developed and provided by Ranger Kidwell-Ross, M.A.

360.739.7323 (9-5 Pacific) • ranger@worldsweeper.com

By incorporating these elements, municipalities can develop a comprehensive enhanced street sweeping program that maximizes pollutant removal, improves stormwater quality, and provides additional benefits to the community.

1. Vehicle removal program
 - Implement mandatory removal of parked vehicles during sweeping
 - Use technology for citizen notifications and real-time updates
2. Use of correct sweeper technology
 - Prioritize regenerative air sweepers for general city street sweeping
 - Use vacuum sweepers for porous pavements
 - Limit mechanical broom sweepers to specific conditions (e.g., highways, heavy accumulations)
3. Optimized sweeping frequency
 - Adjust frequency based on land use and street type
 - Implement more frequent sweeping in high-accumulation areas
4. Pavement condition management
 - Focus on sweeping curbed streets
 - Support repaving projects to improve stormwater quality
 - Seal cracks in poor and fair pavements
5. Sweeper maintenance and operation
 - Ensure regular maintenance of equipment
 - Optimize forward speed of sweepers (typically 3- 10 mph)



6. Monitoring and data collection
 - Implement street dirt accumulation monitoring
 - Conduct sweeper pick-up performance monitoring
 - Use controlled street sweeper pick-up performance testing
7. Program optimization
 - Use software like SIMPTM to model pollutant removal
 - Allocate resources based on data-driven insights
8. Integration with stormwater management
 - Consider adding the sweeping program to the stormwater department
9. Public education and outreach
 - Educate citizens about sweeping's pollutant removal value
 - Use sweeper hopper graphics for civic messaging
 - Implement school education programs
10. Innovative use of sweepers
 - Outfit sweepers with data collection systems for community issues
 - Use sweepers as "eyes of the community"
11. Cost-effective ticketing system
 - Implement camera-based ticketing on sweepers
 - Allow immediate re-parking after sweeper passes
12. Regulatory alignment
 - Work towards state-level regulations that credit sweeping for pollutant removal
13. Continuous improvement
 - Stay informed about new technologies and best practices
 - Participate in or follow results of ongoing research and testing

**The internet's most comprehensive database on street sweeping is at:
www.worldsweeper.com/Street/**