

## 10. Adaptive Management Plan

During characterization the Stakeholder Committee identified strategies to protect surface water quality in Cypress Creek. Those strategies were refined as the Stakeholder Committee reviewed, voted to adopt and prioritized BMPs to use throughout implementation of the Cypress Creek WPP. These BMPs are not all included in the first stage of implementation, but are expected to be implemented in the following years. They are regarded as the stakeholders' "toolbox" for future efforts and adaptive management (Table 25).

The Stakeholder Committee will review monitoring data and the plan to identify if milestones are being met and BMPs are working effectively. The Stakeholder Committee will submit an adaptive management review after the first 3 years of implementation. During this period, water quality monitoring will provide information about current pollution levels in Cypress Creek. Modeling efforts will illustrate potential changes or increases in nonpoint pollution from land use practices and more specific development activities at the subwatershed scale. Monitoring and modeling data will be compared with the water quality targets set forth by the stakeholders and where exceedances or increasing trends occur, best management practices will be selected for implementation.

### **Adaptive Management BMP Toolbox**

In addition to the BMPs and ground/source water protection strategy the Stakeholder Committee approved a suite of BMPs (Table 25) necessary to address water quality threats as urbanization increases in the watershed. This was done to enable the Stakeholder Committee to act on monitoring data that indicates a new threat without having to go through the process of researching new management practices. The BMPs in the Adaptive Management Toolbox are already proven to be suitable options in the watershed. See the Cypress Creek Stakeholder Committee section above for information about how the committee will utilize adaptive management (Page 26).

Table 25. BMP Toolbox for Adaptive Management by Stakeholder Committee

Highest Prioritization	Second Highest Prioritization	Medium Prioritization	Low Prioritization
Water Conservation Pricing Strategies	Urban Wildlife Management – Deer	Rainwater Harvesting Strategies	Rock Weirs/Cross-vanes
Water Conservation Program for Water Providers or Municipalities	Riparian Buffers	Cypress Creek Land Trust	Vegetative Filter Strips
Groundwater Management strategies assessment and research	Water-intensive Turf Grass Ordinances and/or Ban	Nutrient & Fertilizer Management	Livestock Water Quality Management Plan
Groundwater Protection Strategy	Groundcover Establishment – Agricultural	Habitat Conservation Areas – Urban	Rain/soil moisture sensors
	Parking Lot Pervious Design Strategies	Rock Berms/Gabions	Wastewater solutions
	Xeriscaping/Nativescaping	Biofiltration/Rain Garden	Septic replacement program
	Engineered Swales	Tree Protection	
	Conservation Easements	Groundcover Establishment – Urban	
	Karst Feature Protection Measures	Porous/Pervious Pedestrian Walkways	
	Comprehensive Stormwater Assessment	Alternative Brush Control -- Prescribed burns	
	Purchase of Development Rights	Grazing Management Strategies	
	Landscape Mulching	Landowner Incentive Program	
		Pet Waste Ordinance & Stations	