




Oak Park Conservancy District Stormwater Best Management Practices (BMPs) Sediment Management Practices (SMPs)		SMP-10	
Activity: Channel Linings			
PLANNING CONSIDERATIONS: Design Life: Life Acreege Needed: None Estimated Unit Cost: Monthly Maintenance: 0% of Capital Costs			
			
		Target Pollutants	
		Significant ◆ Partial ◆ Low or Unknown ◇ Sediment ◆ Heavy Metals ◆ Nutrients ◆ Oxygen Demanding Substances ◆ Toxic Materials ◇ Oil & Grease ◆ Bacteria & Viruses ◇ Floatable Materials ◆ Construction Waste ◇	
Description	To protect against erosion to soil, artificial surfacing of bed, banks, shores or embankments are channel lined. Channel lining is the application of rip-rap (SMP-09) to channels, creeks, streams, ditches and other waterways to provide a barrier against the erosions of the environment during construction.		
Suitable Applications	Channel lining is used for several different purposes, one being the promotion of vegetative growth in a drainage way, while another application would result from seeding and mulch not being able to withstand the maximum shear force of channel flow for 2-year, 24-hour flow.		
Approach	➤ Channel Lining is most effective in wet-weather conveyances and has applicable materials such as: Excelsior, jute mats and cells, wood fiber mats and cells, geosynthetic mats or cells, brush layering.		

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Maintenance	<ul style="list-style-type: none">➤ Inspect after every storm event➤ Check Rip-rap BMP for appropriate installation and maintenance processes➤ Repair damaged material immediately
Inspection Checklist	<ul style="list-style-type: none"><input type="checkbox"/> Adequate coverage is provided to prevent washout.<input type="checkbox"/> Repair torn netting or mats.<input type="checkbox"/> Slope of channel is consistent with contract documents.