



*The Cities of Pasco, Kennewick, Richland and West Richland, along with the Department of Ecology are collectively committed to maintaining an effective erosion and sediment control program at all construction sites to ensure the environmental integrity. We look forward to working with you to implement all best management practices.*

## How Can New Development Affect Our Streams, Rivers, and Groundwater?

Whenever there is new site development, the primary concern is the potential for sediment and contaminants in the runoff from the construction activities and its' impact on the local environment. Wind, water, humans, and machines carry these sediments and contaminants along with soil, litter, and other debris away from the development site and into our local storm drain systems, endangering water quality and damaging stormwater facilities.

Everything carried, pushed, or spilled by site development can be picked-up by water flowing over the site. This water finds its way into storm drains, and without treatment, into our local streams, rivers and groundwater. This untreated runoff affects water quality; human, animal, and environmental health; and can cause flooding when storm drains become clogged or blocked.



*The Department of Ecology offers the following suggestions to make sure that all sites are in compliance with all codes and regulations:*

### Onsite Erosion Control

- Stormwater is required to be retained onsite, to prevent runoff from entering the storm drain system:

**Silt Fence**—a temporary barrier of permeable fabric designed to slow the flow of sediment and help detain soil.

**Onsite Sediment Containment**—stabilized entrances and exits to construction sites reduce the tracking of mud and dirt into storm drains and roadways.

### Offsite Erosion Control

- Storm Drain Inlet Protection—items such as gravel bags and tubes are placed at inlets to detain sediment.
- Preserve existing vegetation—maintaining existing vegetation to minimize potential soil erosion by stabilizing the soil.
- Physical Stabilization—covering exposed soil can effectively protect against erosion, examples include:

**Geotextiles/Mats**—soil can temporarily or permanently be held in place while maintaining moisture near the surface

**Soil Binders**—applying and maintaining polymeric or lignin sultanate soil stabilizers for temporary erosion protection

**Hydroseeding**—applying a mixture of wood, fiber, seed and fertilizer to provide soil stabilization

**New Vegetation**—providing long term benefits such as slope and soil stabilization, water infiltration and sediment filtration by planting ground cover, sod, shrubs and trees

## Best Management Practices

- Maintaining controls and best practices throughout the project is critical to ensure effectiveness.
- Designate one specific area away from storm drains as the site entrance and for all parking, vehicle refueling, and routine equipment maintenance.
- Use only as much water as needed for dust control.
- Use gravel approaches to reduce soil compaction and limit the tracking of sediments into streets, where truck and equipment traffic is frequent.
- Establish and use an adequate sized concrete washout area to contain all liquids onsite.
- Regularly schedule street sweeping at the construction site entrance to help prevent dirt from entering the storm drains.



*Potential for concrete to spill into gutter.*