



January 17, 2012

ALL SITES ARE REQUIRED TO MEET THE MINIMUM PERFORMANCE STANDARDS:

ESC & Pollution Prevention

- Minimize tracking of sediment and debris onto roadways.
- Protect roadways, properties and stormwater facilities from sediment and debris.
- Properly wash out concrete trucks and equipment.
- Protect water bodies, streams and wetland from sediment and pollutants.
- Remove temporary BMPs after permanent controls have been established.

See Bend Code Title 16 (link on back) for additional minimum performance standards:

- 16.10.070 Clearing & Grading
- 16.10.090 Blasting
- 16.10.100 Tree Preservation
- 16.15.040 Post Construction

CITY OF BEND

Construction Site Pollution Prevention and Erosion and Sediment Control Fact Sheet

Why is Erosion & Sediment Control Needed?

The installation of erosion and sediment control (ESC) measures are used to reduce the amount and duration of soil exposed to erosion by wind, rain, runoff and vehicle tracking. If erosion and sediment controls on a construction site are not correctly installed and maintained properly, sediment laden runoff can reach storm drain facilities causing impacts to drywells, drill holes or the Deschutes River.

When is a Clearing, Grading Erosion Control Permit Required?

A permit is required for clearing and grading activities related to construction, demolition, and site development for improvements related to all land divisions, multi-family developments, and commercial, industrial, and institutional sites. Single-family and duplex site developments are exempt from the permit requirement (but not from the Performance Standards) unless one of the following activities is proposed:

- Excavation or fill exceeding two feet other than foundation areas of single-family or duplexes.
- Alteration to or creation of a slope exceeding 20 percent.
- An excavation or fill within two feet of the property line.
- Tree removal of trees more than eight inches DBH on properties greater than one acre.
- Any clearing and grading activity located entirely or partially on sensitive areas or within a designated Area of Special Interest or Waterway Overlay Zone as described in Bend Development Code Section 2.7.
- Any other site determined by the City to have conditions necessitating additional control measures on a site specific basis for the protection of health, safety, property, or water quality protection.

How to Apply for a Permit:

- Completed a permit application paper work.
- Pay fee in the amount set by Council Resolution.
- Submit a site plan and grading plan.
- Submit an erosion and sediment control plan prepared in accordance with the Central Oregon Stormwater Manual (see link on back).
- A soils and geological reconnaissance report may be required if the City determines that special circumstances warrant such information.

Pollution Prevention/Erosion Control Permit Considerations:

Before You Begin,	During Construction,	After the Job is Done,
Identify sensitive areas to protect.	Implement the ESCP.	Stabilize all disturbed soils.
Determine the drainage paths, slope steepness and direction of runoff.	Inspect and maintain the site regularly, request formal inspection by City as needed.	Replant or install new vegetation as described in the plan.
Develop an Erosion & Sediment Control Plan & Schedule (ESCP).	Coordinate ESCP updates with City.	Continue to monitor the site until all new vegetation has established.
Obtain all City, State and Federal Permits as needed.	Make repairs to BMPs promptly.	Remove and properly dispose of Temporary Erosion Controls after permanent controls have been established.
Locate temporary access point.	Cover or protect stored material including stockpiles, paints, and chemicals from rain.	Request Final Inspection by City.
Identify concrete washout areas if applicable.	Sweep up spills or tracked sediment using dry cleaning methods promptly.	
Hold a Preconstruction meeting with subcontractors to review ESCP.	Do not stock pile material in the Right of Way (ROW) including streets & sidewalks.	

Commonly Used Erosion and Sediment Pollution Preventions Measures

Construction Access

Purpose: A temporary construction entrance is a gravel pad located where vehicles leave a construction site. This rock pad is designed in such a way to allow vehicle tires to slightly sink into the rock. This helps to remove mud and debris from vehicle tires.

City Standard Drawing: R-27

Tips

- Locate Construction Entrance away from existing catch basins
- Limit the number of Access points
- Cover Trucks before they leave the site



Sediment Control

Purpose: Sediments from construction activity can find their way into the stormwater system through storm sewers, storm grates and storm inlets. This sediment can plug inlets, pipes, dry wells, drill holes, and may cause flooding or impact water quality in the Deschutes River. Sediment fences, waddles and compost filter berms can help capture and remove sediment from construction site runoff.

City Standard Drawing: E-1

Tips

- Install silt fence along lower edges of the project site
- Inspect and maintain sediment controls regularly
- Remove once permanent controls are established



Soil Stabilization

Purpose: Wind rain and snow combined with the removal of ground cover accelerates the process of erosion. Using hydro-seeding, applying a layer of straw, planting native grasses or installing jute matting can help stabilize soils and prevent sediment from being washed or blown off site.

City Standard Drawing: E-5 & E-6

Tips

- Phase construction operations to limit the amount of un-stabilized soil
- Stabilize disturbed soil as soon as possible after work is completed



Inlet Protection

Purpose: Storm drain inlet protection measures prevent soil and debris from entering storm drain inlets. These measures are temporary and should be implemented before a site is disturbed. Inlet protection is the last line of defense in protecting the stormwater system from sediment.

City Standard Drawing: E-2

Tips

- Routinely inspect and remove excess sediment regularly
- Place bulk material stockpiles away from catch basins and paved surfaces



Good Housekeeping

Purpose: Proper storage, maintenance, clean-up and disposal of materials and machinery can prevent pollutants from entering storm drainage facilities.

Tips

- Properly store paints and chemicals; clean up accidental spills safely and promptly.
- Sweep up sediment or debris tracked onto roadways; put litter in appropriate receptacles.
- Keep machinery properly maintained; use an oil pan when needed; repair leaks promptly.



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Additional Links

City of Bend Code Title 16

<http://www.ci.bend.or.us/modules/showdocument.aspx?documentid=6732>

City of Bend Design Standards

www.ci.bend.or.us/modules/showdocument.aspx?documentid=2104

Central Oregon Stormwater Manual

www.coic.org/cd/stormwater/index.htm

Business and Home Best Management Practices

www.bendoregon.gov/index.aspx?page=298

Oregon Department of Environmental Quality

www.deq.state.or.us/wq/stormwater/escmanual.htm