

## Did you know?

- Just 1/8 of an inch of soil eroded from an acre of land equals about 25 tons of sediment.
- Sediment deposits in streams impact fish habitat by fouling spawning areas and disrupting the life cycle of insects that fish rely on for food.
- Suspended solids (e.g., eroded soil and sediments in stormwater) are the primary water pollutants associated with construction activities.
- Suspended solids transport phosphorus, nitrogen, and metals—among other things—into our local waterways, which further reduces water quality.
- The use of Best Management Practices (BMPs) makes it possible to keep soils and sediments onsite and out of stormwater.



Stormwater entering Pattee Creek

## Stormwater Resources

This brochure is an informational resource intended to provide guidance for construction stormwater management within the City of Missoula. Detailed guidance is available from the following City departments and external agencies.



### **City of Missoula Stormwater Utility**

For questions about general stormwater management, call 406-552-6397 or email [stormwater@ci.missoula.mt.us](mailto:stormwater@ci.missoula.mt.us)

### **City of Missoula Community Planning, Development and Innovation (CPDI)**

For information on permitting requirements call 406-552-6636, email [engdesk@ci.missoula.mt.us](mailto:engdesk@ci.missoula.mt.us), or visit [ci.missoula.mt.us/2337/Construction-Permits](http://ci.missoula.mt.us/2337/Construction-Permits)

### **Montana Department of Environmental Quality (MDEQ)**

For information on construction, industrial, and municipal stormwater, visit [deq.mt.gov/water/assistance](http://deq.mt.gov/water/assistance)

### **U.S. Environmental Protection Agency (EPA)**

For additional information on construction stormwater management, visit [epa.gov/npdes/stormwater-discharges-construction-activities](http://epa.gov/npdes/stormwater-discharges-construction-activities)



# **CONSTRUCTION ACTIVITIES**

## **STORMWATER POLLUTION PREVENTION**

## Erosion and Sediment Control

***It is your responsibility to select and maintain erosion and sediment controls on your construction site.***



### KEEP SEDIMENT ON YOUR SITE

There are hundreds of commercial options for erosion and sediment control BMPs (Best Management Practices). **Use what works for your location and install them correctly!** Straw wattles, silt fence, filter bags, rock socks, erosion blankets, track out pads, etc.



Products should be specifically made for use as a stormwater BMP

Products should be easy to install and remove upon build completion



Wait. You're not done.  
Nearly all BMPs, except vegetative buffers, require regular maintenance



## Stormwater Permits

There are **two** main permits when it comes to permits for managing construction stormwater in Missoula:

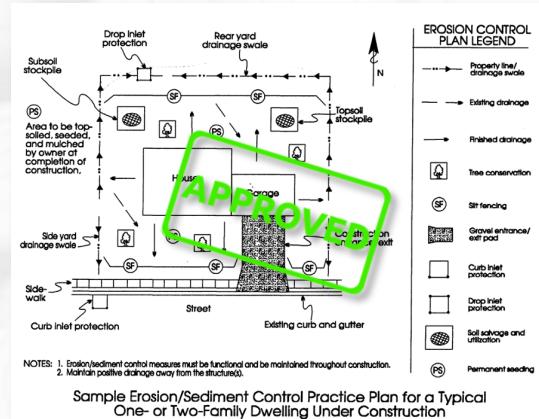
**City-issued Construction Stormwater permit** for projects <= 2,500 sq. ft of disturbance area.

**State-issued SWPPP Permit** from MDEQ (Montana Department of Environmental Quality) for >= 1 Acre of disturbance area.



## Erosion Control Site Plans

The fundamental elements of Stormwater Permits and Erosion Control Site Plans include:



- Identify material storage
- Identify concrete washout
- Establish construction access
- Install sediment controls
- Contain garbage
- Protect drain inlets
- Protect slopes
- Control pollutants
- Maintain BMPs



### INLET PROTECTION IS YOUR LAST LINE OF DEFENSE

If sediment is in the street and track-out is occurring—the site's erosion control BMPs need maintenance OR need to be completely rethought.



### IT PAYS TO BE PREPARED

When it starts raining, it's already too late. A well-thought-out stormwater site plan will keep your project on schedule and in compliance with city and state laws.

If your site fails a city inspection you will be charged a re-inspection fee which is equal to the permit fee.