Storm water runoff is generated when water from rain and melting snow flows over land instead of infiltrating into the ground. As runoff travels over the exposed soils typically found on construction sites, it accumulates pollutants such as sediment, vehicle fluids, litter, and debris. Local storm water conveyance systems, including the open ditches along many of our area roads, concentrate this runoff. When the concentrated flow leaves the system, it can empty into local water bodies carrying the pollutant load with it. The results can significantly alter our natural environment by contaminating drinking water supplies, making recreational areas unsafe and unpleasant, harming fish and wildlife populations, and killing native vegetation.

By implementing simple best management practices (like those shown above) in the design and construction of your project, you can help control the pollutant loading entering our storm water and protect area resources!

ADDITIONAL PERMITS MAY BE REQUIRED

If your total disturbed area equals or exceeds 1.0 acre, you may be required to submit a Permanent Storm Water Control Plan and obtain a Site Development Permit from the Department of Public Works. Plan and permit approval are required before you dig! Please plan ahead to avoid violations and possible fines!

Estimate your total disturbed area:
1) House and garage = ________________
2) Yard (be sure to include areas disturbed for the septic, drain field, well, etc.) = ________________
3) Driveway (be sure to include areas disturbed near the road and ditch line) = ________________
4) Other disturbed areas = ________________
TOTAL SQUARE FOOTAGE = ________________

1 acre equals 43,560 square feet. If your disturbed area equals or exceeds 1 acre, contact the Department of Public Works for permit information at 907-459-1345

REMEMBER approval is required before you dig!

For additional information on the Fairbanks Storm Water Management Program, visit the web at: http://co.fairbanks.ak.us/PWorks/StormWaterManagementProgram/

EROSION AND SEDIMENT CONTROL PRACTICES FOR SMALL CONSTRUCTION SITES

What you need to know before you build!

Fairbanks North Star Borough
Department of Public Works
809 Pioneer Road
907-459-1345
SUCCESSFUL BEST MANAGEMENT PRACTICES FOR SMALL CONSTRUCTION

**Protect natural features.**
Undeveloped sites can have numerous natural features that provide environmental, aesthetic, and recreational benefits if protected from the impacts of construction. These features include wetlands, riparian areas, floodplains, forested areas, and other wildlife habitat. In addition, properties being redeveloped might have attractive open space, gardens, or other man-made features that could be protected.

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- **Before** your dirt contractor arrives, identify areas where existing features are not to be disturbed.
- Protect these areas by fencing (**plastic orange snow fence** works well) or otherwise clearly marking them, but remember it can be hard to see some markers from the top of a bulldozer!

**Construction Phasing.**
Construction site phasing involves disturbing only one part of a site at a time. Grading and construction are completed and soils are stabilized in one area before grading and construction commence at another area. This reduces the potential for erosion and sediment transport.

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- Sequence construction activities so that the soil is not exposed for long periods of time.
- Schedule or limit grading to small areas.
- Install key sediment control devices (**silt fence or fiber rolls** for example) before site grading begins.
- Schedule site stabilization activities (**seeding, mulching, soil roughening,** etc.) to be completed immediately after the land has been graded to its final contour.

**Vegetative Buffers.**
Vegetation provides erosion control, storm water detention, biofiltration, and aesthetic values to a site during and after construction activities.

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- Protect and install vegetative buffers along water bodies, drainage ditches, and neighboring properties to slow and filter storm water runoff.
- Maintain buffers by mowing or replanting periodically to ensure their effectiveness.

**Construction Entrances/Exits.**
Stabilizing the entrance to your construction site (with a pad of gravel over a filter cloth, for example) helps minimize the amount of sediment leaving the site on vehicles and tires. This is especially important when your site is along a paved roadway.

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- Remove mud and dirt from the tires of construction vehicles **before** they enter the roadway.
- Properly size the stabilization zone for all anticipated vehicles.
- Make sure that the stabilization zone does not become buried in sediment.

Each day that you have bare soil exposed, ask:

1) **Is it going to rain? Today? Tonight?**
2) **How will I stop sediment from washing onto the neighbor’s property? Into the drainage ditch?**
3) **How will I keep mud from being tracked out onto the public road?**
4) **How will I keep sediment from washing into any stream or wetlands near my project?**

Some simple ideas:

- You probably want a nice stand of grass on your yard...why not **seed and mulch early** in construction?
- You most likely want a nice driveway...why not **put down some gravel early** in construction?

**Be a good neighbor.**

**PREVENT SEDIMENT DAMAGE!**

Keep our ditches open and our roads smooth and stable.