CONTRACTOR TRAINING
MS4 STORMWATER

OUTLINE
- Regulations
- CSU’s MS4 Permit
- Construction Projects
- Preventing pollution
- What can you do?
Regulations

- 1972 Federal Water Pollution Control Act (CWA)
  - Point Sources
- 1987 Clean Water Act Amendments
  - Regulated Stormwater non-Point Sources
- Phase I (November 16, 1990)
- Phase II (March 10, 2003)
From

- Rain
- Snow

To

- Spring Creek
- Cache La Poudre River
Potential Pollutants

- Stored Chemicals (oil, paint, fertilizer)
- Exposed chemicals (oil on equipment, etc.)
- Wastes (trash, animal wastes, used oil, etc.)
- Sediment
CSU’s MS4 Permit

- Six Minimum Measures
  - Education/Outreach
  - Public Involvement
  - Illicit Discharges
  - Construction projects (SWMP, inspections)
  - Post-Construction
  - Housekeeping, pollution prevention

- BMPs

- Annual report

Best Management Practices
Map showing the CSU Campuses that are included in CSU’s MS4 Stormwater Permit (shown in green)
Illicit Discharges?

- What are they? Discharges that are not supposed to go to storm sewers or receiving waters.
- Examples: wash water, improperly connected sanitary sewers, spills, etc.
- What to do? Call CSU:
  - Dispatch 491-0077
  - MS4 Coordinator 491-0117
  - Project Manager
CSU Construction Standards:
Contractors shall practice erosion control at construction sites. Contractor shall use Best Management Practices (BMPs). All projects disturbing one acre or more are required to have a Stormwater Management Plan (SWMP) and permit coverage under Colorado Department of Public Health and Environment’s Colorado Discharge Permit System General Permit for Stormwater Discharges Associated with Construction Activity.
Construction BMPs – Good Examples

- Silt fence and tracking pad installed before grading begins.
- Wattle trapping sediment.
Construction BMPs – Good Examples

On-site concrete washout area, periodically cleaned out.

Soil stockpile sediment collected in ditch, not leaving site.
Construction BMPs - Bad Examples

Silt fence falling down, not filtering sediment.

Wattles not functioning
Construction BMPs – Bad Examples

Mud on paved street adjacent to jobsite

Chemical drums have no secondary containment.
The Contractor is responsible for BMP maintenance, inspections and documentation.
Where to find stormwater information on CSU’s website

Example SWMP is available
Construction Project Inspections

- Contractor – every 14 days and after precipitation event that causes erosion
- CSU – Monthly, and after complaints.
What is CSU Doing to Prevent Stream Pollution?

- Educating campus community
- Evaluating “treatment” opportunities
- Minimizing use of pesticides, herbicides and fertilizer
- Minimizing construction erosion
- Evaluating alternatives like permeable pavement

Mmmm, koi
what can you do?

- Keep a clean site
- Sweep adjacent paved streets
- Pick up litter
- Dispose of used oil, antifreeze and paint properly
- Keep vehicles in good condition
- Put chemicals in containment
- Maintain BMPs
- Keep a clean site.
Protect that water.....
Lets go fishing