



STORM WATER MANAGEMENT



I. HISTORY

- PHASE 1 – IMPLEMENTED IN 1990 UNDER THE CLEAN WATER ACT.

ADDRESSED RUNOFF FROM:

1. COMMUNITIES OVER 100,000.
2. CONSTRUCTION ACTIVITY
> 5 ACRES.
3. INDUSTRIAL ACTIVITY

- 2003 – EPA IMPLEMENTED PHASE 2 OF ITS STORM WATER PROGRAM

ADDRESSED RUNOFF FROM:

1. COMMUNITIES OVER 50,000 (AUTOMATIC DESIGNATION).
2. CAN INCLUDE COMMUNITIES OVER 10,000 (UP TO PERMITTING AUTHORITY)
3. CONSTRUCTION ACTIVITY > 1 ACRE.
4. PUBLIC INSTITUTIONS (NDSU)
5. OTHERS WHOSE DISCHARGE IMPACTS SENSITIVE BODIES OF WATER.

PROGRAM REQUIREMENTS

- DEVELOP A STORM WATER POLLUTION PREVENTION PROGRAM (SWPPP) TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM MUNICIPAL STORM SEWER SYSTEMS.
- THE SWPPP MUST IDENTIFY THE STORM WATER BEST MANAGEMENT PRACTICES (BMPS) ADDRESSING SIX MINIMUM CONTROL MEASURES.

SIX MINIMUM CONTROL MEASURES

1. Public Education & Outreach
2. Public Participation & Involvement
3. Illicit Discharge Detection & Elimination
4. Construction Site Storm Water Runoff Control
5. Post-Construction Storm Water Management
6. Pollution Prevention/Good Housekeeping

MCM #1 – Public Education & Outreach

- Storm Water Web Page
www.cityoffargo.com/Stormwater
- Quarterly Newsletter Contributions
- Development and disbursement of educational materials.
- Classroom Presentations
- Other educational opportunities
(City Partners with other agencies, educational entities, volunteer groups)



MCM #2 – Public Participation & Involvement

- Volunteer Monitoring Program
- Partnerships/Outreach (Investigate feasibility of partnering with other governmental organizations, educational entities, non-profit organizations, etc.)
- Storm Drain Stenciling Program
- Annual Meeting
- Community Input Opportunities (Website, telephone communications, etc.)



MCM #3 – Illicit Discharge Detection & Elimination

- Storm Sewer System Map
- Site Plan Reviews
- Plumbing Permits
- Illegal Dumping Controls
- Program to Detect, Identify, and Eliminate Illicit Discharges
- Educational Outreach
- Ordinance or other Regulatory Mechanism
- On-site Sewer System Education & Inspection



MCM #4 – Construction Site Storm Water Runoff Control

- Adopted Ordinance
- Erosion & Sedimentation controls on municipal projects
- Construction Site Plan Reviews
- General Construction Site Waste Controls
- Information submitted by the public.
- Construction site inspection & enforcement on private construction sites



MCM #5 – *Post-Construction Storm Water Mgmt.*

- Storm Water Detention Requirements
- Forestation Program
- Acquisition of Flood-Prone Property
- Storm Sewer Utility
- Floodplain management
- Design Standards



MCM #6 – Pollution Prevention/Good Housekeeping

Source Controls

- Pet Waste Collection (track complaints)
- Street Sweeping Program
- Storm Drain Cleaning Program
- Storm Sewer Lift Station Cleaning
- Spring Cleanup Week
- Compost Collection



MCM #6 – Pollution Prevention/Good Housekeeping

Materials Management

- Household Hazardous Waste Collection
- Hazardous Materials Storage
- Road Salt Application/Storage
- Spill Response and Prevention
- Used Oil Recycling Program
- Snow Removal Operations





Questions?

