



# CHESTER COUNTY CONSERVATION DISTRICT

## **Chapter 102 Erosion and Sediment Control &**

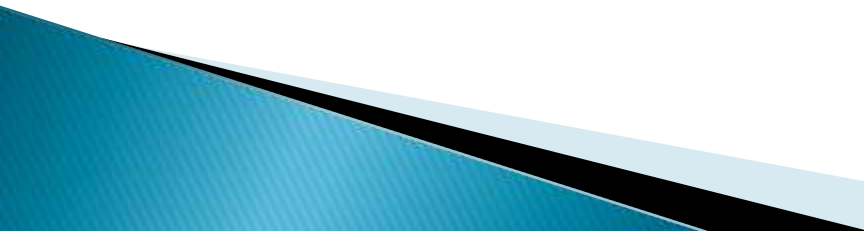
## **NPDES Permitting Requirements**

**Joe Sofranko, CPESC- Urban Resource Conservationist**

# What is a Conservation District?

- ▶ In 1945, state legislators recognized the need to support grass roots conservation efforts. As a result, the Conservation District Law was passed and county conservation districts were created. –PACD information sheet
- ▶ Since then the law has been updated to better serve the needs of Pennsylvania citizens and conservation districts implement a wide variety of programs that address issues unique to their county– PACD Information sheet

# Chester County Conservation District

- ▶ In Chester County the Conservation District has three primary responsibilities...
    - 1.) Erosion and Sedimentation and Post Construction Stormwater Management/ NPDES Permitting of construction activities (Urban Team)
    - 2.) Agricultural Conservation (Agricultural Team)
    - 3.) Watershed projects (Watershed Coordinator)
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# Sediment Pollution


- ▶ Sediment Pollution is recognized by the US EPA as the #1 pollutant by volume of waterways in the USA
- ▶ Sediment isn't just soil but also carries whatever other pollutants that are attached to the soil particles such as oils, heavy metals, fertilizers etc.




# Chapter 102 Erosion and Sediment Control Regulations

- ▶ Earth Disturbance Activities up to 5,000 sq ft are to have Erosion and Sediment (E & S) Control Best Management Practices (BMPs) installed. In High Quality/ Exceptional Value Watersheds (HQ/EV) written plans are also required
- ▶ Earth Disturbances 5000 sq ft up to just under one acre are to have a written plan regardless of watershed designation along with implementation of the controls

# Chapter 102 Regulations

- ▶ When earth disturbance on a Construction Site exceeds 1 acre an NPDES (National Pollutant Discharge Elimination System) Permit is to be obtained prior to beginning earth disturbance activities.
  - ▶ NPDES Permit requires written Erosion and Sedimentation Control Plans and Post Construction Storm Water Management Plans.
  - ▶ One exception to this is earth disturbances associated with Oil and Gas Activities which includes Transmission Pipelines. Once those projects exceed 5 acres of disturbance they are to obtain an Erosion and Sedimentation Control General Permit (ESCGP-1) permit.
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# CCCD Role and Responsibility

- ▶ Through a delegation agreement with PA Department of Environmental Protection (DEP) the Chester County Conservation District's (CCCD) Urban Team regulates Earth Disturbances associated with Construction Activities under Chapter 102 and NPDES Permitting.
  - ▶ Erosion and Sedimentation Control during construction
  - ▶ Post Construction Stormwater Management
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# CCCD Role and Responsibility

- ▶ The CCCD Urban Team performs Engineering Meetings, Plan Reviews, Construction Site Inspections and Complaint Response.





# Erosion and Sediment Control

- ▶ During construction when there is active earth disturbance activities, the contractor is to install Erosion and Sedimentation Controls that **MINIMIZE** accelerated erosion and sediment discharges from the site in accordance with approved plans.



Filter Sock and Rock  
Construction Entrance

# Erosion and Sediment Control



Sediment Trap



Sediment Basin

# Erosion and Sediment Control



Site stabilization– before



Site Stabilization– after

# Post Construction Stormwater Management

–When Impervious cover is added stormwater volume increases and most often Water Quality decreases



# Post Construction Stormwater Management

- ▶ Permanent Stormwater Management BMPs need to be installed on site that protect water quality and control water volume.



# Post Construction Stormwater Management

- ▶ Best Management Practices are designed and installed to help infiltrate the volume of stormwater generated from the new impervious/ change of ground cover and to treat the water quality of the stormwater



Rain Garden/ Bio Retention System

# Post Construction Stormwater Management



Underground Infiltration System



Rain Garden

# Post Construction Stormwater Management



Rain Barrel



Parking with detached stormwater connections



# Questions?

- ▶ Joe Sofranko, CPESC
  - ▶ Urban Resource Conservationist
- ▶ Chester County Conservation District
  - ▶ 688 Unionville Rd, Suite 200
  - ▶ Kennett Square PA 19348
  - ▶ 610-925-4920 ext 107
  - ▶ [jsofranko@chesco.org](mailto:jsofranko@chesco.org)
  - ▶ [www.chesco.org/conservation](http://www.chesco.org/conservation)
- ▶ Check us out on Facebook, search “**Chester County Conservation District**”