

City of Columbus Proposed Stormwater Regulatory Changes Update 2019

THE CITY OF
COLUMBUS
ANDREW J. GINTHER, MAYOR

DEPARTMENT OF
PUBLIC UTILITIES

Regulations Under Revision

- Regulation for Control of Stormwater Pollution from Land Disturbance
 - Formerly Erosion and Sediment Pollution Control Regulation

- Stormwater Drainage Manual
 - Post-construction BMP Construction Field Verification

Regulation for Control of Stormwater Pollution from Land Disturbance

Old Regulation:

- Adopted 1994
- No revision until now
- More restrictive at one time now outdated
- 4 Ohio EPA Construction General Permit cycles
- Advancements in Ohio Rainwater and Land Development Manual

New Regulation:

- Consistent with:
- Ohio EPA Construction General Permit
- Ohio Rainwater and Land Development Manual

Regulation for Control of Stormwater Pollution from Land Disturbance

Exemptions:

- <2,000 s.f. disturbance
 - Not in stream protection areas or
 - No closer than 50 feet to an unprotected stream
- Agriculture and nursery
- Gardening and landscaping with stabilization
- Emergency construction

Regulation for Control of Stormwater Pollution from Land Disturbance

Notable changes:

- Direct references to OEPA regulations and guidance
- Definitions
- Non-sediment pollution controls
- City-specific requirements*

Regulation for Control of Stormwater Pollution from Land Disturbance

Sediment pollution controls:

- Volume Verification for Sediment Ponds and Traps*
 - Required within 30 calendar days from date of pond completion
- Pumping*
 - Sediment bag, above-ground, secured to discharge hose, vegetated surface
 - Monitor
- Non-protected inlets*
- Clean storm sewers before project closeout*

Regulation for Control of Stormwater Pollution from Land Disturbance

Non-sediment pollution controls

- Direct reference to OEPA CGP addresses:
 - Material storage and handling
 - Fuel tanks - double-walled*
 - Contaminated soils
 - Air pollution (asbestos, burning)
 - Sanitary waste
 - Illicit discharges and spills

Regulation for Control of Stormwater Pollution from Land Disturbance

Sites less than one acre*

- No SWP3 (unless water quality degradation)
- Controls are required

Regulation for Control of Stormwater Pollution from Land Disturbance

SWP3 Checklist and Standard Notes*

- Derived from latest OEPA SWP3 checklist
- References 35+ standard notes

Post-construction BMP Field Verification

- 2017 USEPA Audit Observation
- City Response:
 - As-built surveys for BMPs
 - Design engineer certification of BMPs
 - Detailed quantity breakout of BMP items
 - Increased construction inspection of BMPs

Post-construction BMP Field Verification

BMP Construction Surety

- \$10,000 per site
- Surety Bond
- Covers:
 - Temporary sediment ponds
 - Post-construction practices
- Returned after:
 - As-built survey
 - Engineering certification
 - A County-recorded Inspection and Maintenance Agreement

Post-construction BMP Field Verification

As-built Survey of BMPs

- Timing: After construction and stabilization of post-construction BMPs
- Prepare by an Ohio-registered Professional Surveyor
- Used by Professional Engineer to certify construction of BMPs

Post-construction BMP Field Verification

As-built Survey of BMPs

- Inlet and outlet structures
- Pipes
- Storage chambers
- Orifice plates
- Weirs
- Grates
- Windows
- Embankments and Crests
- Spillways
- Open channels
- Topography and storage volume
- Energy dissipation systems (RCP, etc.)
- Impervious reduction areas
- Planted vegetation, if applicable

Post-construction BMP Field Verification

- BMP Certification
- Certified by (in order of preference):
 - Professional Engineer who prepared original plans
 - Professional Engineer employed by Engineering Firm that prepared original plans
 - Other Professional Engineer hired by developer
- Updated calculations showing performance in compliance with SWDM

Post-construction BMP Field Verification

BMP Construction Inspection

- Estimated BMP quantities
- Increased City inspection
 - Increased CIDs

Post-construction BMP Field Verification

BMP Construction Inspection Items

- Measurements, quantities and materials
 - Pipes, chambers, control openings, structures, media, plants
- Installation verification (Photographs)
 - Above-ground ponds/wetlands
 - Outlet components
 - Orifice plates - mounted
 - Trash racks/hoods
 - Underdrains before burial
 - Impervious reduction areas - stabilized surface conditions

Questions?

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