Connecticut’s MS4 Permit: What’s New?

CAFM Conference
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CT NEMO Program
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Center for Land Use Education and Research (CLEAR)

- Water
- Land use & climate adaptation
- Geospatial (mapping) technology

http://clear.uconn.edu
CLEAR/DEEP Partnership

- 5 year MOA
- Provide multi-faceted support to MS4 towns
Minimum Control Measures

1. Public education & outreach
2. Public participation
3. Illicit discharge detection & elimination (IDDE)
4. Construction site runoff control
5. Post-construction stormwater management
6. Pollution prevention/good housekeeping
New Permit - More “Detailed”

Old Permit – 17 pages

New Permit – 68 pages
Scope of Activities- New Permit

Townwide by Default

“Priority Areas”

• Urbanized Areas
• Outfall to impaired waters
• Catchment area with DCIA > 11%

Vernon, CT
Directly Connected Impervious Area

Directly Connected

Disconnected
Directly Connected Impervious Area

Calculating DCIA

- Delineate every outfall’s “watershed”
- DCIA within that watershed
- Methods:
  - Estimation
  - Field test
Six Minimum Control Measures

1. Public Education
2. Public Involvement
3. Illicit Discharge Detection & Elimination
4. Construction Site Discharge Controls
5. Post-construction Controls for New Development
6. Good Housekeeping & Pollution Prevention

Municipal NPDES
6 Minimum Control Measures

City of South Portland
Public Education

Required topics

- Pet waste
- Fertilizer, herbicides, and pesticides
- Impervious cover
- Illicit discharges

Regional collaboration ok

Additional topics

- Topics based on impairments for nitrogen, phosphorus, bacteria, mercury
New

- Annual notice of SMP & annual report by Jan. 31
- Required 30 day comment periods
Illicit Discharge Detection & Elimination

New

- Priority areas
- Develop written program - IDDE “protocol”
- Citizen reporting program
- Expand local legal authority (including penalties)
- Map ALL outfalls
- Address septic systems where phosphorus, nitrogen, or bacteria impairment
Construction Site Runoff

Expanded Legal Authority

• Require consistency with:
  • CT Stormwater Quality Manual
  • All DEEP Stormwater Permits
  • 2002 Soil Erosion and Sedimentation Control Guidelines

• Provide for inspections

• Long term maintenance plan & compliance
Construction Site Runoff

Inspection/Review

• Site plan reviews must include stormwater impacts on water quality

• Must inspect sites – installation & maintenance

• Starting July 1, 2017
Notification

• Develop procedure for public input/reporting
• Develop notification procedure for developer obligations under Construction General Permit
LID in Land Use Regulations

• Require consideration of low impact development (LID) 1st

• Consistent w/ CT Stormwater Quality manual

• Reduce/eliminate LID barriers in regs.

• Retain water quality volume onsite
  • Redevelopment of site >40% DCIA - retain ½ volume
  • Development or redevelopment of site <40% DCIA – retain ALL
  • If not – provide equivalent amount elsewhere
Septic Systems

- Coordinate LID design with public health official & be consistent with State Standards

DCIA

- Calculate DCIA for every outfall

Maintenance

- Maintenance plan for stormwater ponds & other treatment structures in priority areas
Good Housekeeping

Disconnecting Impervious Cover

• Reduce DCIA by 1% per year starting 7/1/20
  • 5 year look back - take credit for disconnects from 7/1/12

• Develop retrofit prioritization plan by 7/1/20
Good Housekeeping

Town Operations

• Reduce/eliminate lawn fertilization
• Grass clipping & leaf disposal
• Pet waste management
• Discourage waterfowl
• Spill prevention
• Deicing material application & storage
• Enhanced requirements for nitrogen, phosphorus, & bacteria Impairments
Good Housekeeping

Catch Basin Cleaning

- Inspect catch basins
  - Priority areas by 7/1/20
  - All by 7/1/22
- Clean - No catch basin more than 50% full

Street Sweeping

- Streets & parking lots in priority areas every spring (plan for other areas)
NEMO’s MS4 support
Web-based MS4 guide organized around the 6 minimum control measures

Will include fact sheets, public outreach material templates, video tutorials and other materials to help towns meet specific requirements

Estimated arrival date: Fall 2016
Full time MS4 “circuit rider”

- Full time educator dedicated to helping CT communities deal with MS4 requirements
- Job search open now
- Estimated start date: mid-summer 2016
MS4 Listserv

- Email list dedicated specifically to MS4-regulated issues
- Open forum – questions, announcements, approaches, examples, frustrations
- Available now!

http://s.uconn.edu/ctms4list
- Click on “Subscribe/unsubscribe” on right
Workshops and Webinar series

Statewide hot topics workshops (1-2/yr) & webinars (2/yr)

• Mapping
• IDDE
• Public Outreach

Other topic suggestions welcome
Handy-Dandy Checklists & Guides

• New vs Old MS4 requirements

• Permit requirement checklist & timeline
Mapping Resources - CT ECO

- New dedicated MS4 map viewer
- New high resolution impervious cover data (base data for required mapping) will be hosted on existing site
- Estimated availability: Spring/Summer 2017

http://cteco.uconn.edu
Mapping Pilot Program

- Work with 4 pilot towns on mapping requirements

Workshops & video tutorials

- Outfall and catch basin mapping
- Watershed delineation
- Impervious cover mapping
- DCIA (Directly Connected Impervious Area) calculation

Expected availability: year 1
Mobile & Web-Based Tools

Online and/or mobile apps to assist communities in certain aspects of MS4 compliance

- Outfall, watershed, catch basin mapping
- IDDE reporting
Online, searchable and updated with relevant links

Estimated arrival date: Summer 2017
In the Meantime...

http://nemo.uconn.edu
In the Meantime . . .

Examples of LID Regulations in CT

http://s.uconn.edu/stateoflid
Take the Survey!

http://s.uconn.edu/ms4needs
Thank you!

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