

2014 Technician Report



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Stormwater Technician



welcome!

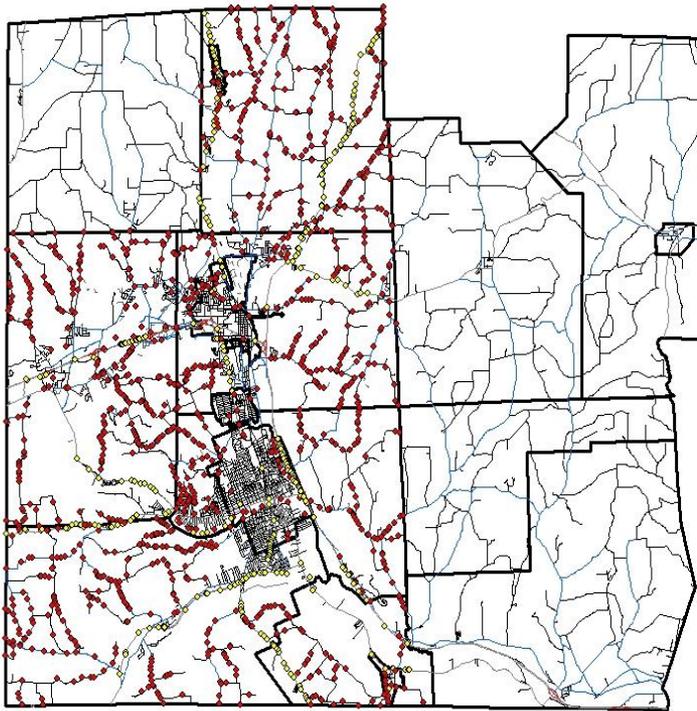
Team Role and Responsibilities

- Assist municipalities with maintaining compliance with the NYS Department of Environmental Conservation's Phase II SPDES General Permit for Discharges from MS4s.
- Compliance is gained through each MS4s Stormwater Management Program Plan (SWMP)
- 6 Minimum Control Measures make up the SWMP
 - Public Education and Outreach
 - Public Participation and Involvement
 - Illicit Discharge Detection and Elimination
 - Construction Site Runoff Control
 - Post-Construction Site Runoff Control
 - Pollution Prevention and Good Housekeeping

Minimum Control Measure 3: Illicit Discharge Detection & Elimination



Minimum Control Measure 3: Illicit Discharge Detection & Elimination



There are 1300 outfalls throughout the 14 designated MS4s in Chemung County. Each outfall must be inspected once every 5 years.

The City of Elmira outfalls must be inspected once every 3 years due to their proximity to the Chemung River.

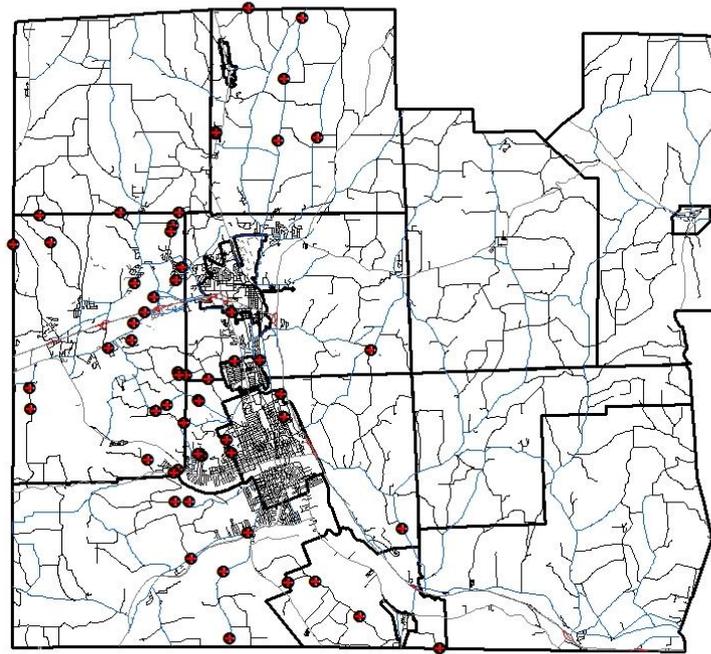
Minimum Control Measure 3: Illicit Discharge Detection & Elimination

2013-2014 Reporting Year

- 🌧️ 321 Outfalls Inspected
- 🌧️ 16 Outfalls were eliminated
- 🌧️ 3 New Outfalls were added
- 🌧️ Completion of storm sewershed mapping. 100% of designated urbanized area outfalls have their storm sewersheds delineated and mapped (254 of 1303 total outfalls)



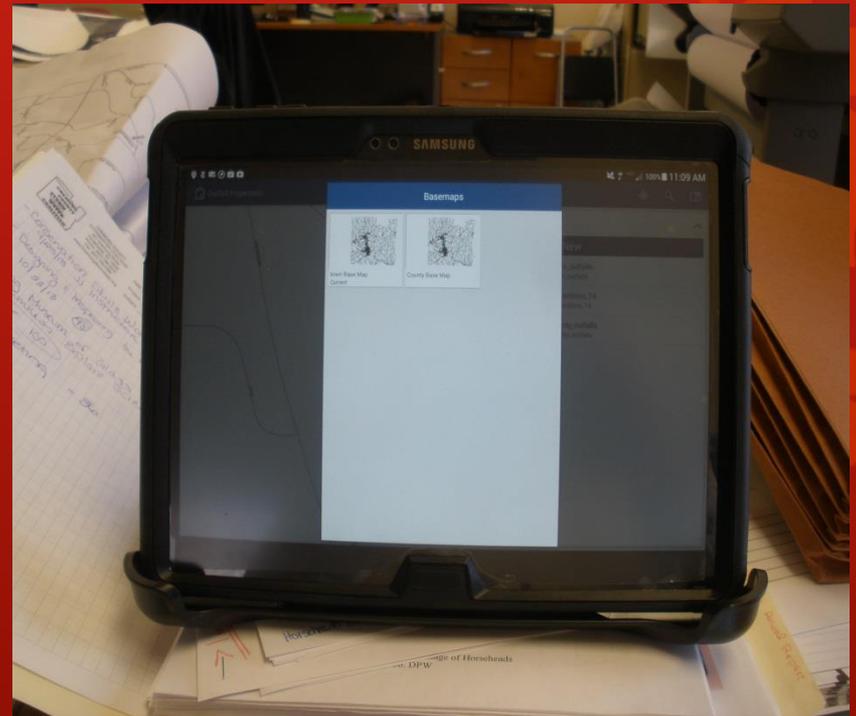
Minimum Control Measure 3: Illicit Discharge Detection & Elimination



Actively working to verify our inventory of outfalls..

THE FUTURE.....

- Our office is working with Dave Bubniak, STC Planning and Development Board on electronic outfall inspections
- Creates an electronic inspection (including photos) that is automatically uploaded to our GIS mapping system.
- Eliminates paperwork
- Increases efficiency
- Testing of equipment is underway with this years outfall inspections



Minimum Control Measure 3: Illicit Discharge Detection & Elimination

Complaint Investigation



🐜 The complaints ranged from gasoline leaks to asphalt dumped into drainage ditches to vehicles being washed with degreasers into storm sewers.

🐜 6 Illicit Discharge complaints were investigated this reporting year.



Minimum Control Measure 3: Illicit Discharge Detection & Elimination

Municipal Employee Education



This reporting year we provided Illicit Discharge training to 62 municipal employees.



Buildings and Grounds seasonal staff were shown IDDE/Rain Check Videos



NYS DEC presented Multi-Sector General Permit requirements to Highway Supervisors and Stormwater Management Officers



NYS DEC presented on Fuel Station Inspections and Spill Clean Up requirements



Minimum Control Measure 4: Construction Site Runoff Control



Minimum Control Measure 4: Construction Site Runoff Control



- ☁️ Active Construction Site list maintained
- ☁️ Assist with small single family home sites with development of an Erosion and Sediment Control Plan
- ☁️ Inspect each site throughout construction until final stabilization is achieved.

Minimum Control Measure 4: Construction Site Runoff Control

INSPECTIONS



Building 400
Town of Big Flats



Hickory View Apartments
Town of Big Flats

Minimum Control Measure 4: Construction Site Runoff Control **INSPECTIONS**



Strawberry Flats Apartments
Town of Big Flats

Mickinkle Property
Town of Big Flats



Minimum Control Measure 4: Construction Site Runoff Control **INSPECTIONS**



Field and Stream
Town of Big Flats

Woseley/ Parmenter
Village of Horseheads



Minimum Control Measure 4: Construction Site Runoff Control **INSPECTIONS**



Biltmore Crossing
Town of Horseheads



Red Robin
Town of Horseheads

Minimum Control Measure 4: Construction Site Runoff Control **INSPECTIONS**



Notre Dame Athletic Fields

Wellsburg Fire Dept.
Fill Site



Minimum Control Measure 4: Construction Site Runoff Control

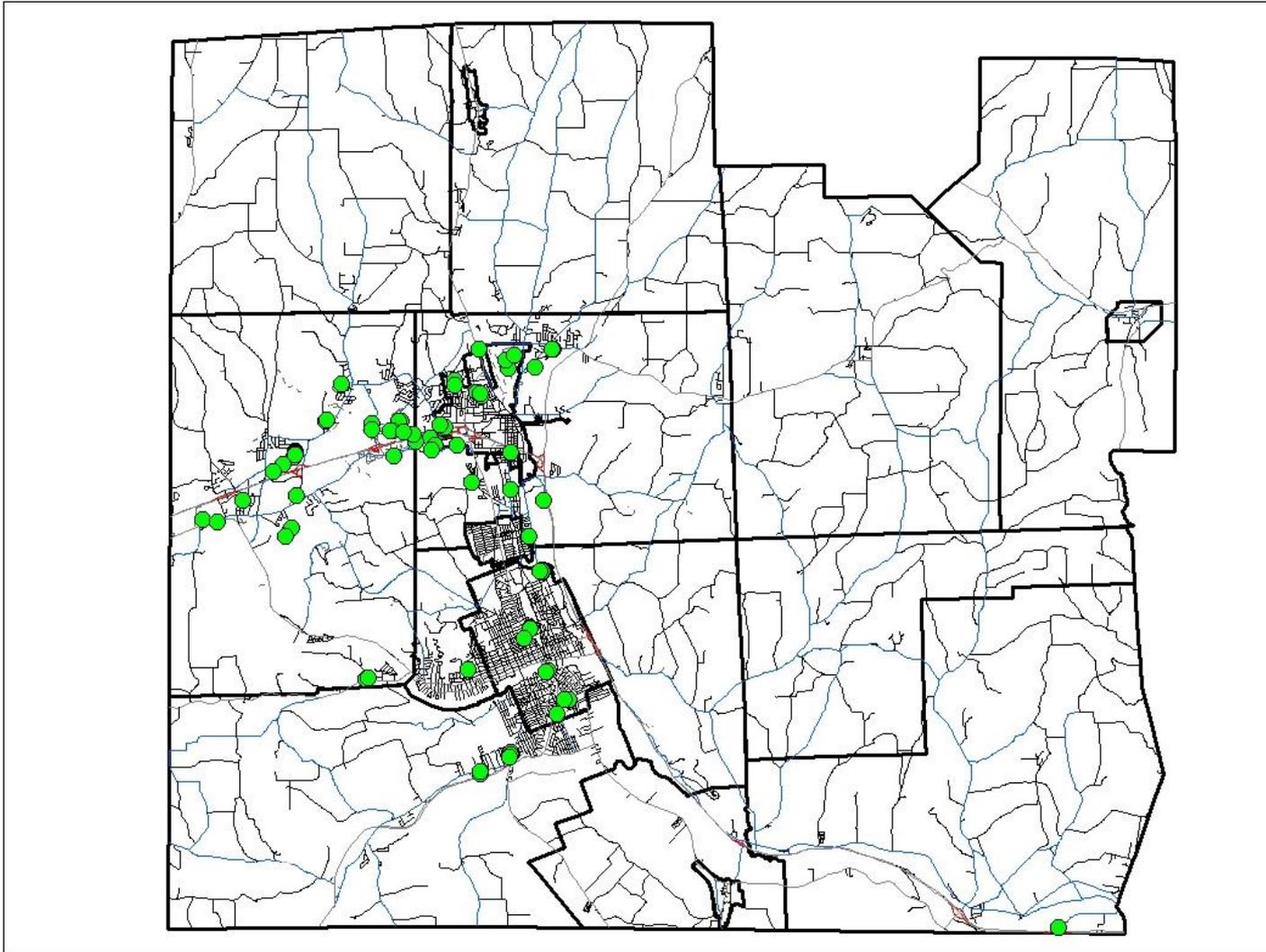
UPCOMING PROJECTS

- Horseheads Hotel
- Williams Honda
- Courtyard Hotel

Minimum Control Measure 5: Post Construction Stormwater Management



Minimum Control Measure 5: Post Construction Stormwater Management



Minimum Control Measure 5: Post Construction Stormwater Management

- 👤 45 Stormwater Practices were inspected
- 👤 10 Practices were added to the MS4 inventory
- 👤 Inspection Reports linked to the GIS mapping system
- 👤 MS4 receives report identifying practices requiring maintenance



Minimum Control Measure 6: Good Housekeeping & Pollution Prevention



Minimum Control Measure 6: Good Housekeeping & Pollution Prevention

Self Assessments of Municipal Operations

- ☁️ Self Assessments must be performed once every 3 years to determine pollution sources and potential for contamination of stormwater at each MS4 owned or operated facility.
- ☁️ This includes parks, cemeteries, golf courses, pools, etc.
- ☁️ Facilities are prioritized based on their pollutant potential.

Minimum Control Measure 6: Good Housekeeping & Pollution Prevention

Self Assessments at 10 MS4s

- 🌧️ 5 Highway Department Garages
- 🌧️ 1 Parks Department



The background of the slide is a solid orange color with a pattern of various leaf shapes in a slightly darker shade of orange, scattered across the surface. The leaves vary in size and orientation, creating a natural, autumnal feel.

Miscellaneous Stormwater Work

Town of Horseheads Bioretention Area

- Parking lot drainage issue was causing ponding of water
- Town thought that the spot would be a great place to install a demonstration rain garden/bioretention area
- Calculated the drainage area
- Calculated the size bioretention area they would need
- Plan developed and awaiting construction





DEC MS4 AUDITS

All MS4s were audited over the past reporting year

- 🌧️ Big Flats
- 🌧️ Elmira
- 🌧️ Horseheads
- 🌧️ Veteran
- 🌧️ Village of Wellsburg
- 🌧️ Ashland

🌧️ *This reporting year (2014-2015) there are only 3 MS4s being audited.*

What has been audited?

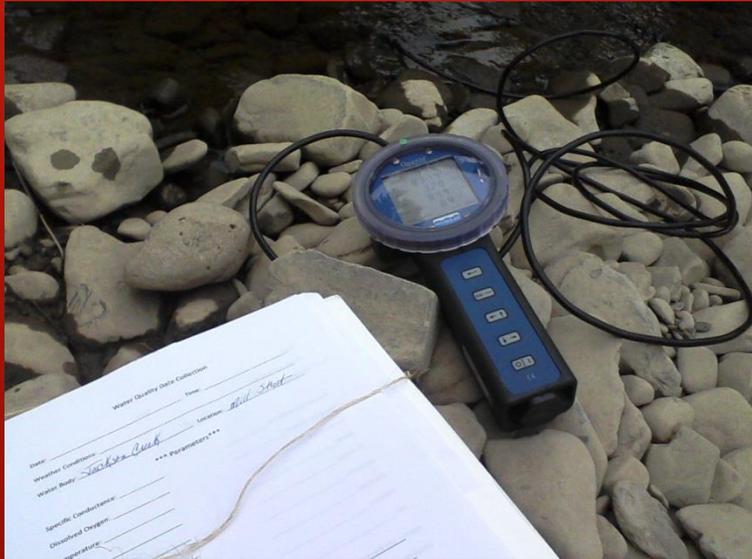
- 🐛 Stormwater Program Management Plan
- 🐛 GIS Mapping (outfalls, sewersheds, & post construction practices)
- 🐛 Municipal Facilities Inspections
- 🐛 Outfalls Inspections



Stormwater Management Plan Template Subcommittee Member

- In April 2014 NYS DEC formed a Subcommittee to develop a Stormwater Management Program template
- The goal was create an tool to be utilized by MS4 operators to streamline record keeping and reporting.
- What I've learned is:
 - The plan would be customized for each MS4
 - That under EPA's electronic reporting requirement, this could meet their criteria once it is part of DEC's requirement
 - Glad to be part of the process so we can provide valuable input for smaller MS4 communities that tend to be forgotten

Water Quality Monitoring



- 12 sites are monitored every 2-3 months
- Utilize the water lab to gather temperature, pH, depth and dissolved oxygen
- Water samples taken are tested at the Elmira Water Board lab for pH, alkalinity, turbidity, hardness and chlorides.

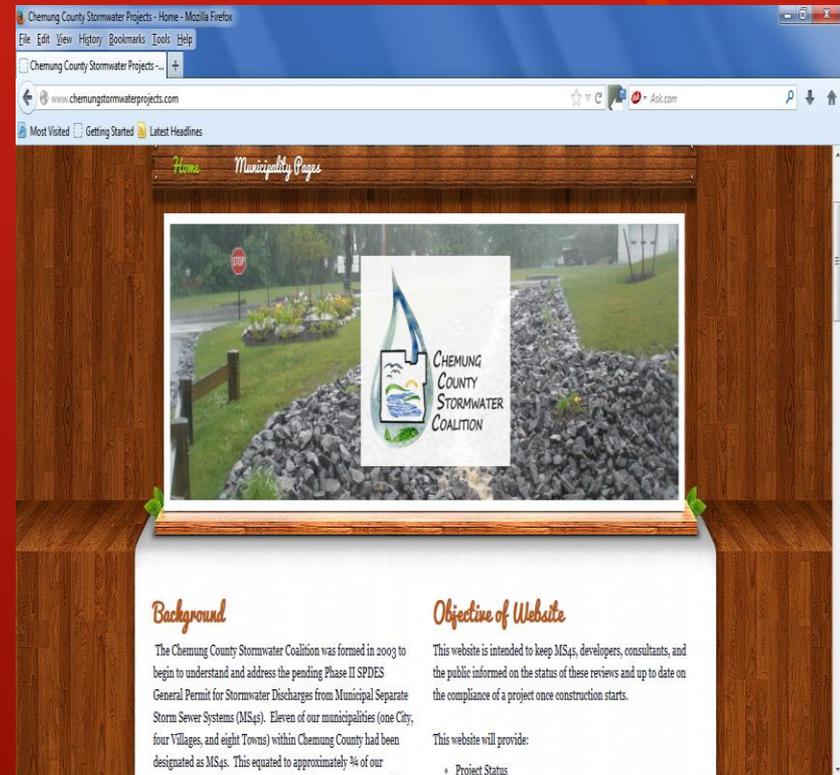
New Website



Created in 2013, this website is intended to keep MS4s, developers, consultants, and the public informed on the status of SWPPP reviews and up to date on the compliance of a project once construction starts.



At this time we average 500 page views a month. The highest being 1446 views from September to October.



www.chemungstormwaterprojects.com

Questions

