



2013 NY Rising Community Reconstruction Program Regional Resiliency Summit

A Regional Approach

Wendy Walsh

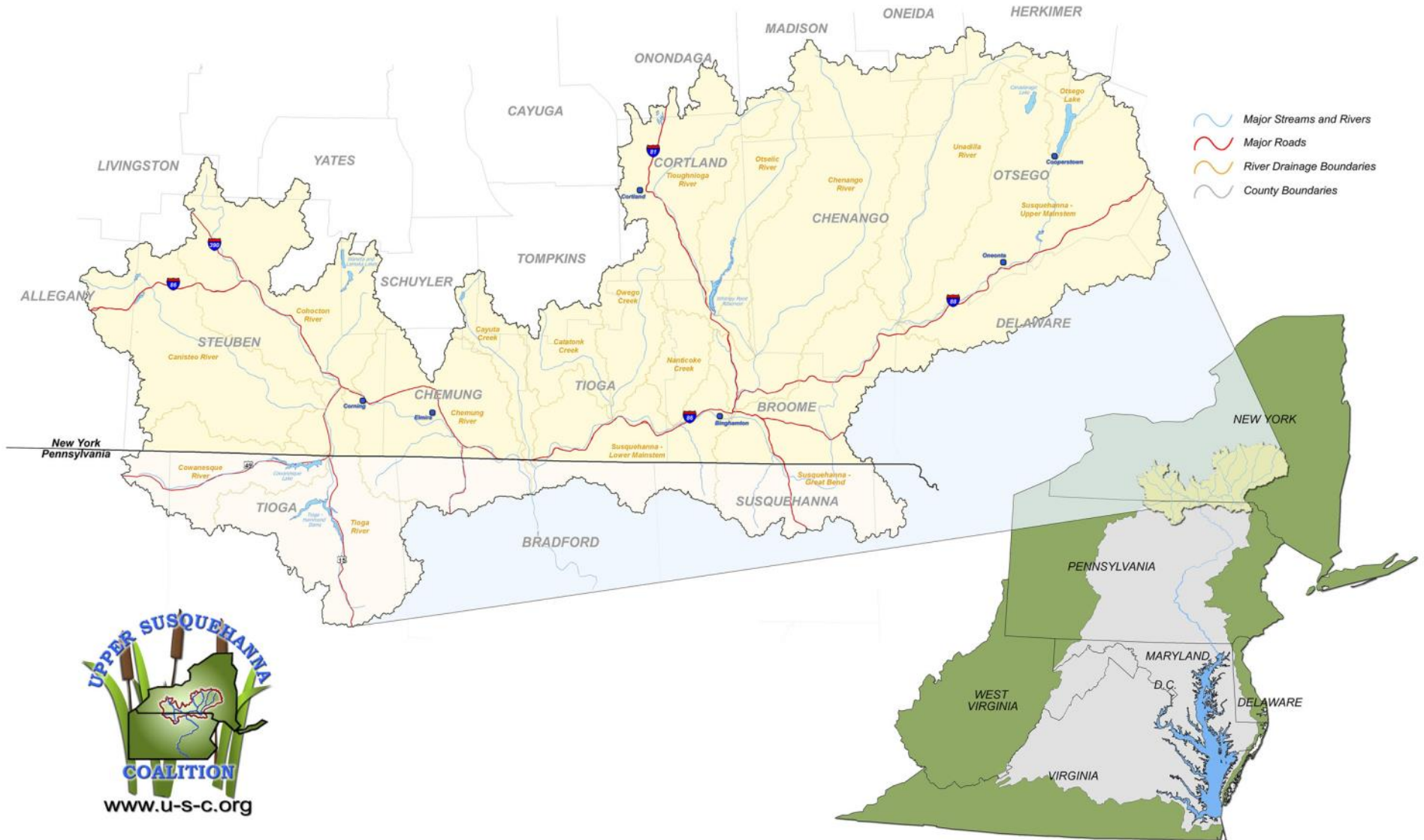
Tioga County SWCD, District Manager

USC Watershed Coordinator & Board Member



THE UPPER SUSQUEHANNA COALITION

HEADWATERS OF THE CHESAPEAKE BAY



Upper Susquehanna Coalition

Established in 1992

19 Soil and Water
Conservation Districts

16 counties in NY

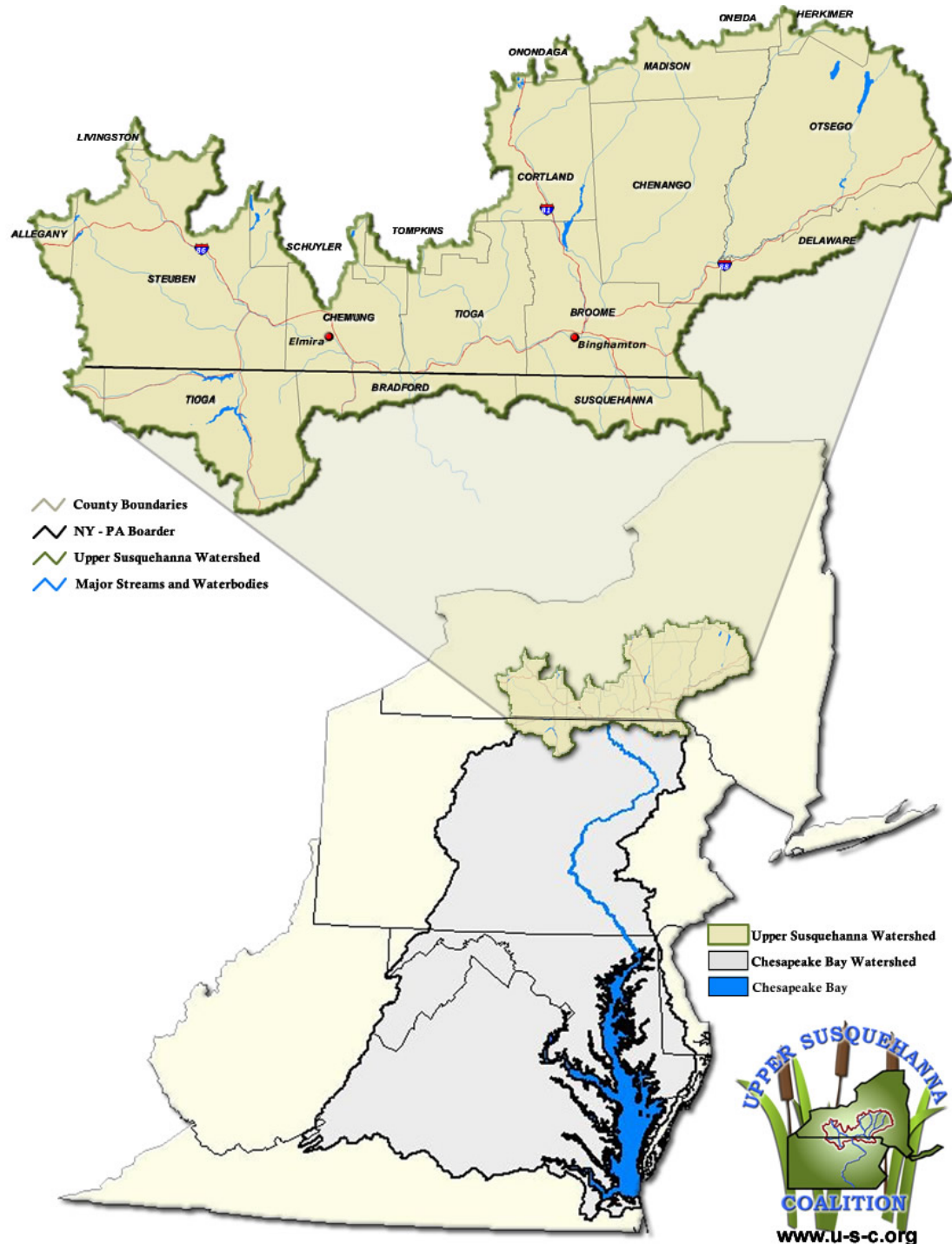
3 in PA

Partnerships with NRCS,
DEC, Universities,
Municipalities

7,500 square miles

Headwaters of the
Chesapeake Bay

USC implements nonpoint
source projects to address
watershed issues



Upper Susquehanna Coalition Watershed Approach

- Utilize Multiple Barrier Approach for planning and implementation of restoration projects on a watershed basis.
- Address the issue at the source, across the landscape, within the stream corridor as well as programmatically

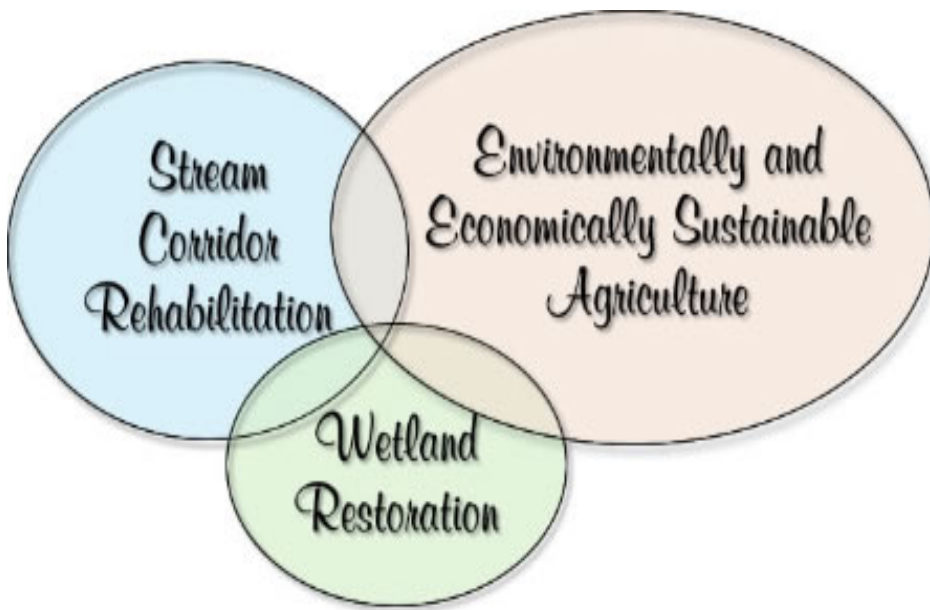


Upper Susquehanna Coalition

Focus Areas

USC Approach to Focus Areas

- Wetland Team
- Stream Team
- Ag Team
- Concept of teams is to build capacity within USC and our partners to address nonpoint source issues within our identified focus areas



Upper Susquehanna Coalition (USC)

Wetland Team

- Goal: Establish, Restore, Enhance and Conserve Wetlands
- Make up of Wetland Team
 - Wetland Team Leader
 - Wetland Coordinator
 - Wetland Biologist and Specialist
 - Field Team
- Approach: Build, Design, Restore and Fund



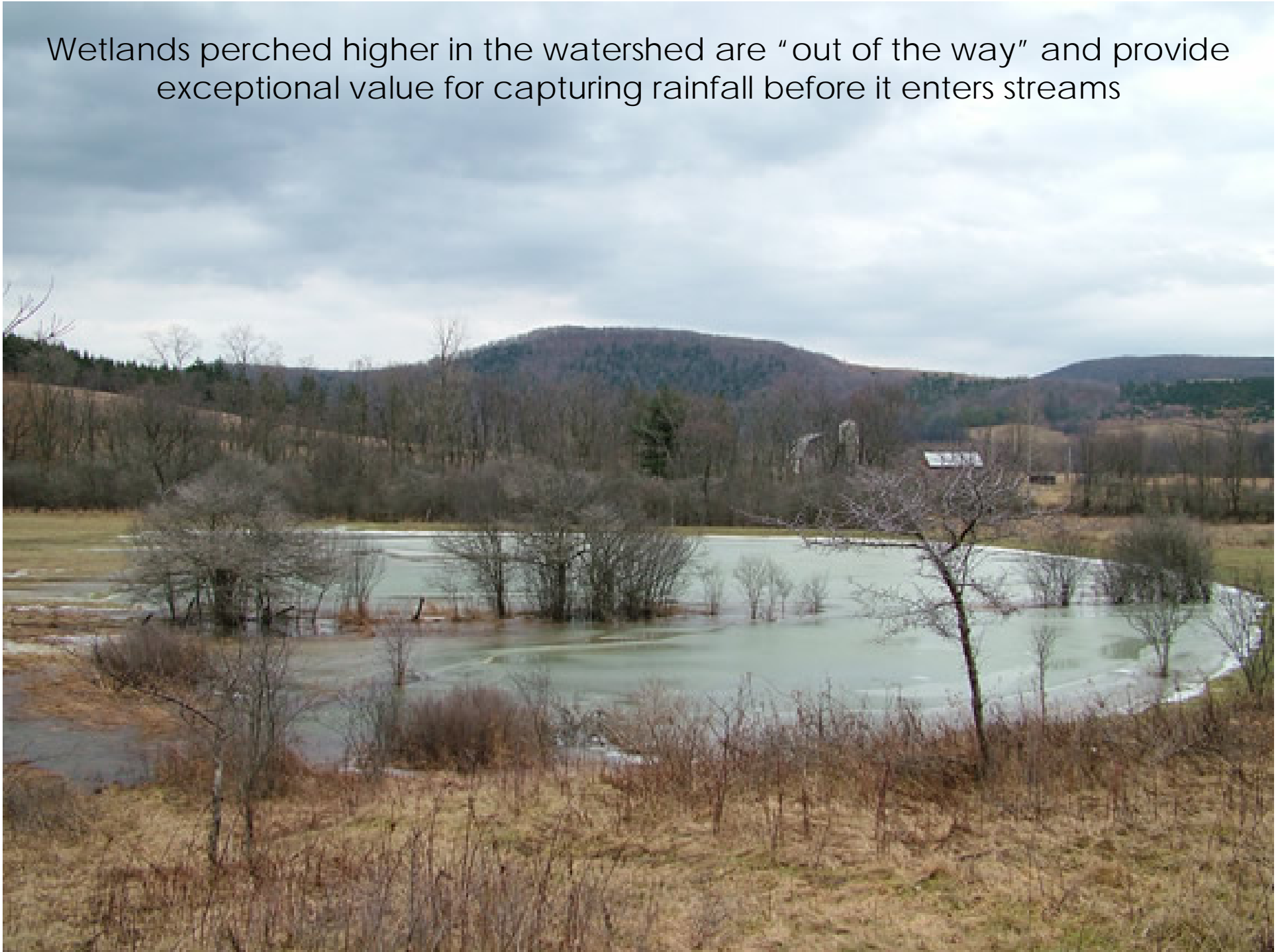
Why Wetlands?

- Capture runoff to desynchronize flood peaks
- resulting in less flooding
- Decrease stream flows to reduce energy of flowing water - less erosion
- Remove sediment and impurities from surface water - improving water quality
- Provide wildlife habitat – add diversity and more recreational opportunities

By building a low berm (at left of the wetland) a nice pool was formed that adds flood capacity, wildlife values, water quality improvements and visual aesthetics



Wetlands perched higher in the watershed are “out of the way” and provide exceptional value for capturing rainfall before it enters streams



USC

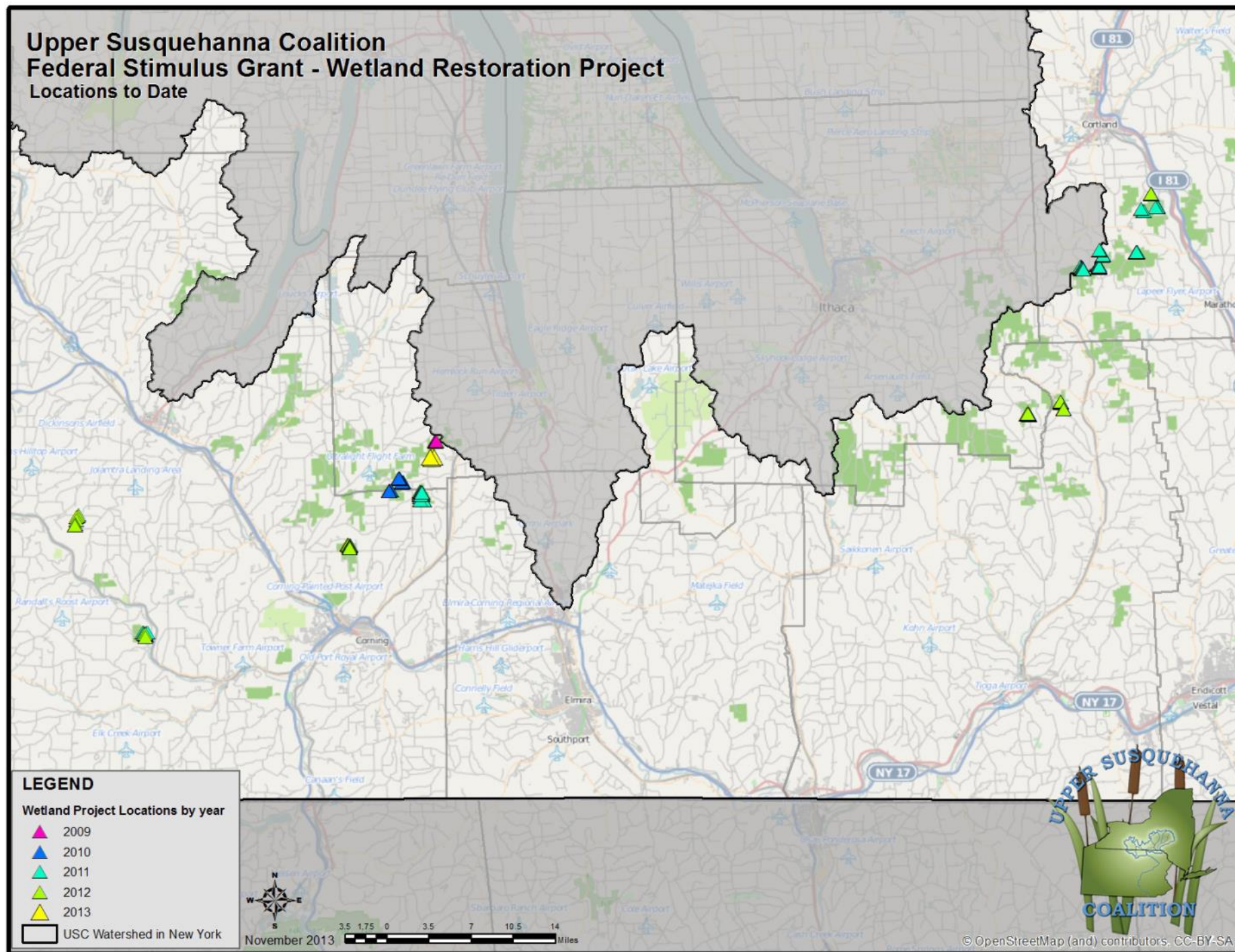
Wetland Restoration

- 2013 Funding Sources
 - NYS CFA Grant
 - Construct 120 acres of wetland
 - NRCS Wetland Reserve Program (WRP)
 - Wetland Mitigation

Kudcey WRP Site
During Construction

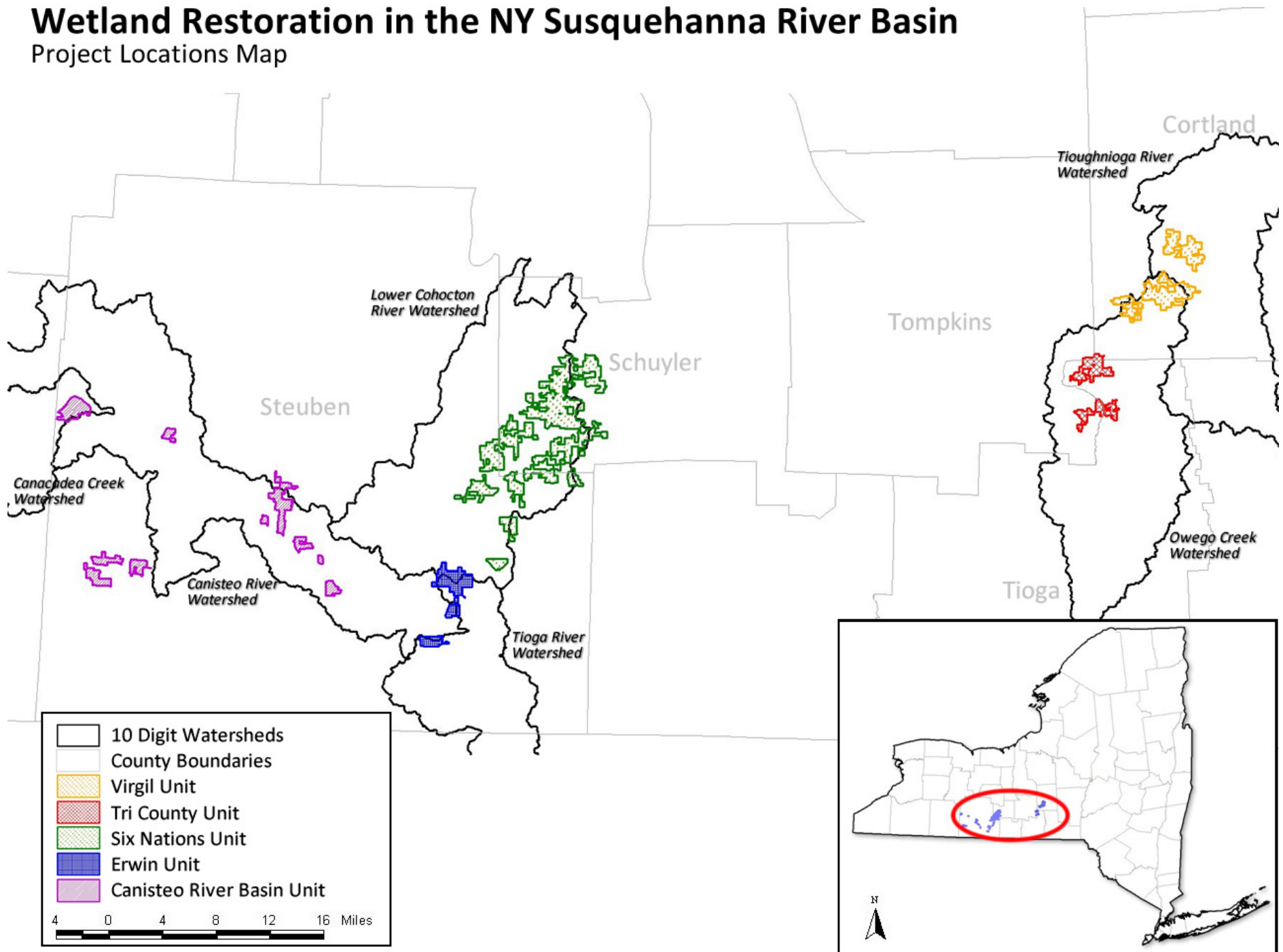


Upper Susquehanna Coalition Federal Stimulus Grant - Wetland Restoration Project Locations to Date



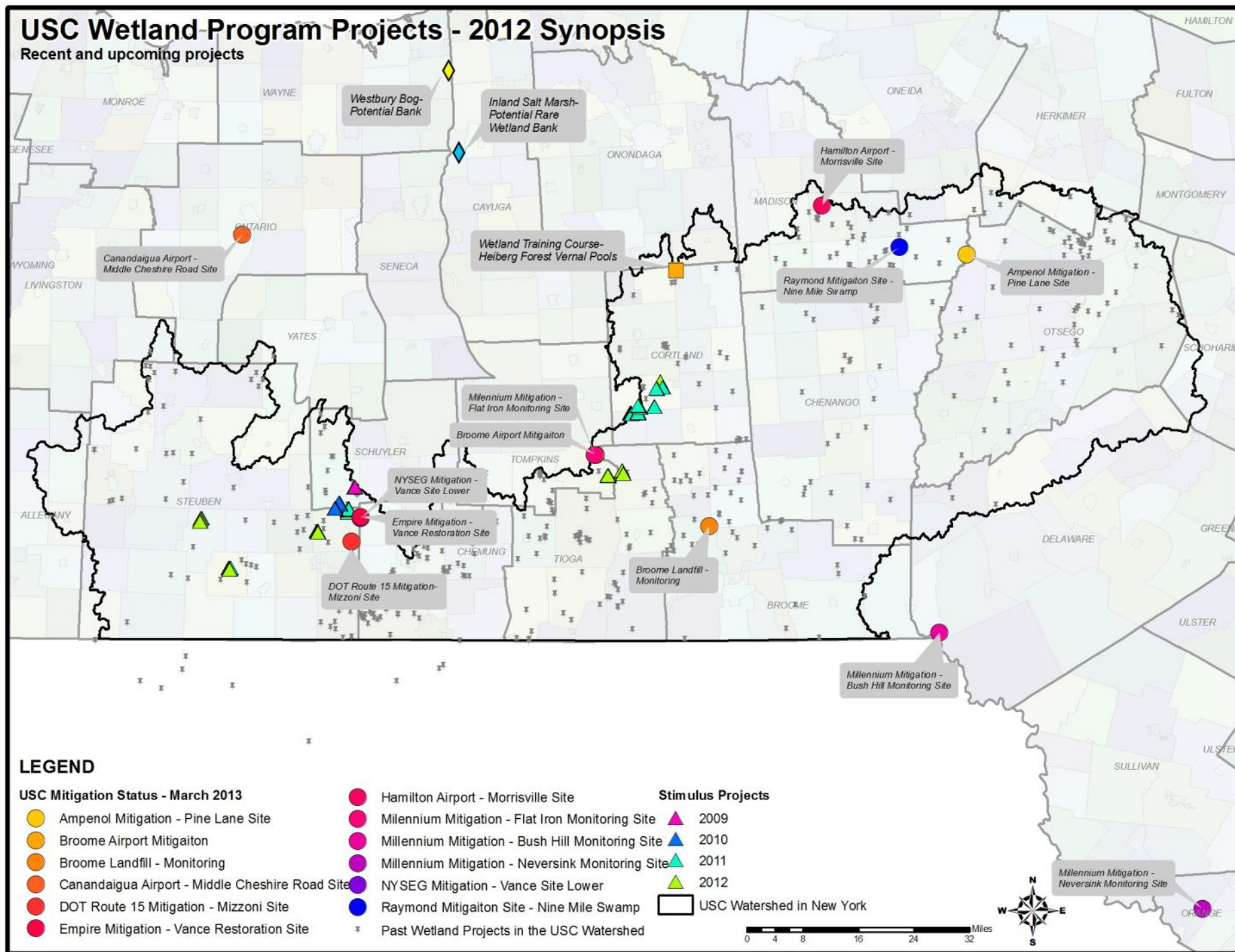
Wetland Restoration in the NY Susquehanna River Basin

Project Locations Map



USC Wetland Program Projects - 2012 Synopsis

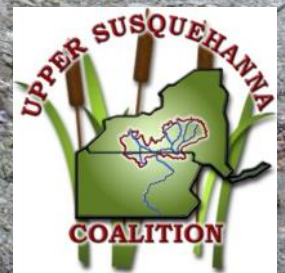
Recent and upcoming projects



Upper Susquehanna Coalition (USC)

Stream Team

- Goal: have a consistent, quality controlled process that builds USC and partners capacity to address stream issues.
- Make up of Stream Team
 - Stream Team Leader
 - Design Staff led by Bradford County CD
- Approach: Background Reports, Watershed Analysis (Including Triage Reports), Design Reports, Implementation and Training



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Stream Corridor Rehabilitation

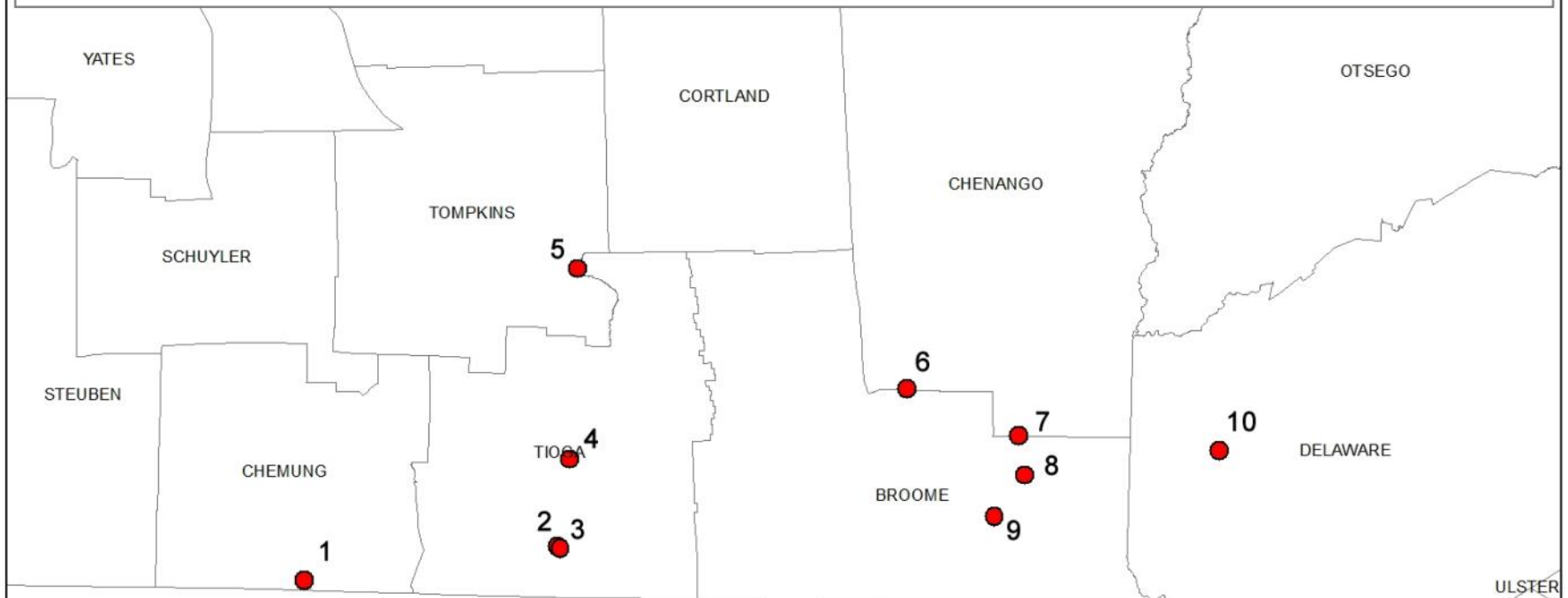
- 2013 Funding Sources:
 - NYS CFA Grant
 - Remove 48,000 feet of streamside berms to reconnect streams to their floodplains
 - Otsego County ESD Flood Mitigation Grant
 - 10 streambank stabilization Projects
 - NFWF Emergency Stream Intervention Grant
 - \$150,000 to train and complete demonstration sites



Catatonk Creek Berm Removal site

GIGP #505: Tioga County Soil and Water Conservation District Wetland Construction and Floodplain Enhancement

Location of Berms removed, as of 30 August 2013



CFA Southern Tier Project Counties



ID	Project	Lat	Lon
1	Wellsburg	42.0130650	-76.7310000
2	Hunts Creek Phase 1	42.0595160	-76.3288739
3	Hunts Creek Phase 2	42.0564072	-76.3234124
4	Catatunk Berm	42.1621320	-76.3118600
5	Flatiron Road	42.3878000	-76.3031710
6	Page Brook	42.2509000	-75.7760000
7	Afton	42.1962000	-75.5969000
8	Johnson	42.1487000	-75.5863000
9	Fordway Road	42.1005560	-75.6331170
10	Backus	42.1795000	-75.2773000



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Berm Removal to Date

Site Name	Date	County	Final lineal Feet	Volume (cubic ft.)
Flatiron Road	Jun-12	Tompkins	60	1,260
Wellsburg	Jun-12	Chemung	1,806	37,926
Hunts Creek Phase 1	Oct-12	Tioga	1,333	28,000
Hunts Creek Phase 2	Oct-12	Tioga	1,200	25,200
Catatonk Berm A (Hine)	Apr-13	Tioga	560	11,760
Catatonk Berm B (Nichols)	May-13	Tioga	1,210	25,410
Page Brook	Jul-13	Chenango	728	15,288
Afton	Jul-13	Chenango	1,800	37,800
Johnson A	Apr-13	Broome	230	4,830
Johnson B	Apr-13	Broome	65	1,365
Johnson C	Apr-13	Broome	146	3,071
Johnson D	Apr-13	Broome	383	8,033
Johnson E	Apr-13	Broome	264	5,544
Fordway Road	Mar-13	Broome	1,173	24,640
Backus	Aug-13	Delaware	2,200	46,200
Totals ----- ----->			13,158	276,327

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Stream Corridor Rehabilitation



10 cubic yard dump truck

- Removed 1,023 loads of material from 10 berm sites



USC Stream Corridor Rehabilitation



Catatonk Creek Berm Removal site
Before, during and after construction
Tioga County



USC

Stream Corridor Rehabilitation

Backus Berm Removal Site
Delaware County



USC

Stream Corridor Rehabilitation



Johnson Berm Removal Site
Broome County

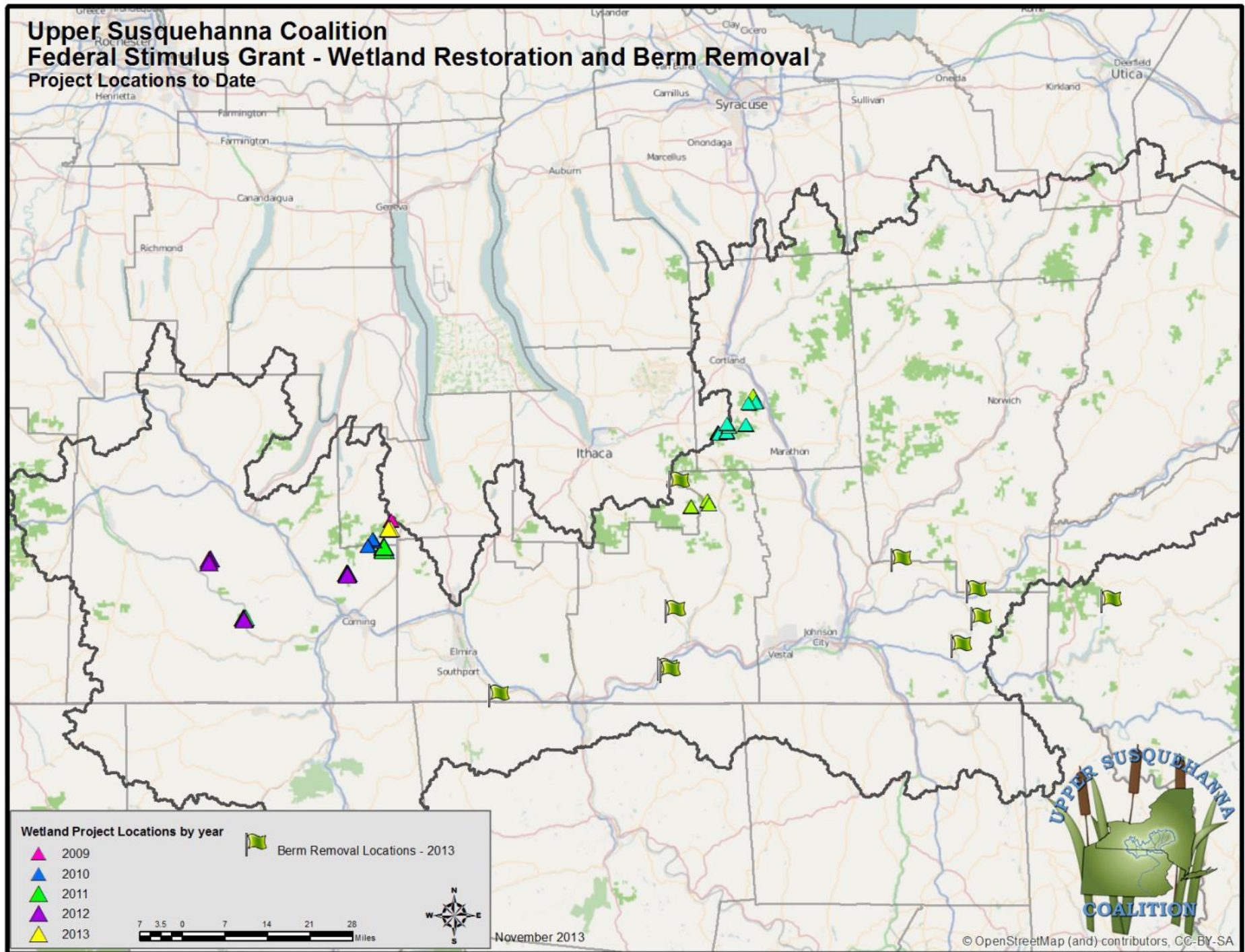
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Stream Corridor Rehabilitation



Page Brook Berm Removal Site
Broome/Chenango County

Upper Susquehanna Coalition Federal Stimulus Grant - Wetland Restoration and Berm Removal Project Locations to Date



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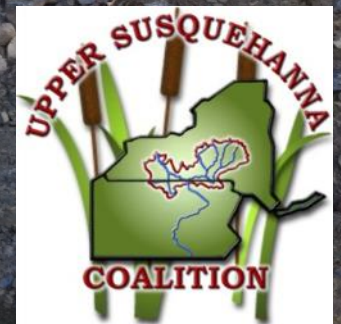
Stream Corridor Rehabilitation

Otsego County Streambank Stabilization
Funding thru Empire State Development



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Stream Corridor Rehabilitation



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Stream Corridor Rehabilitation

Otsego County Streambank Stabilization
Funding thru Empire State Development

Before



After





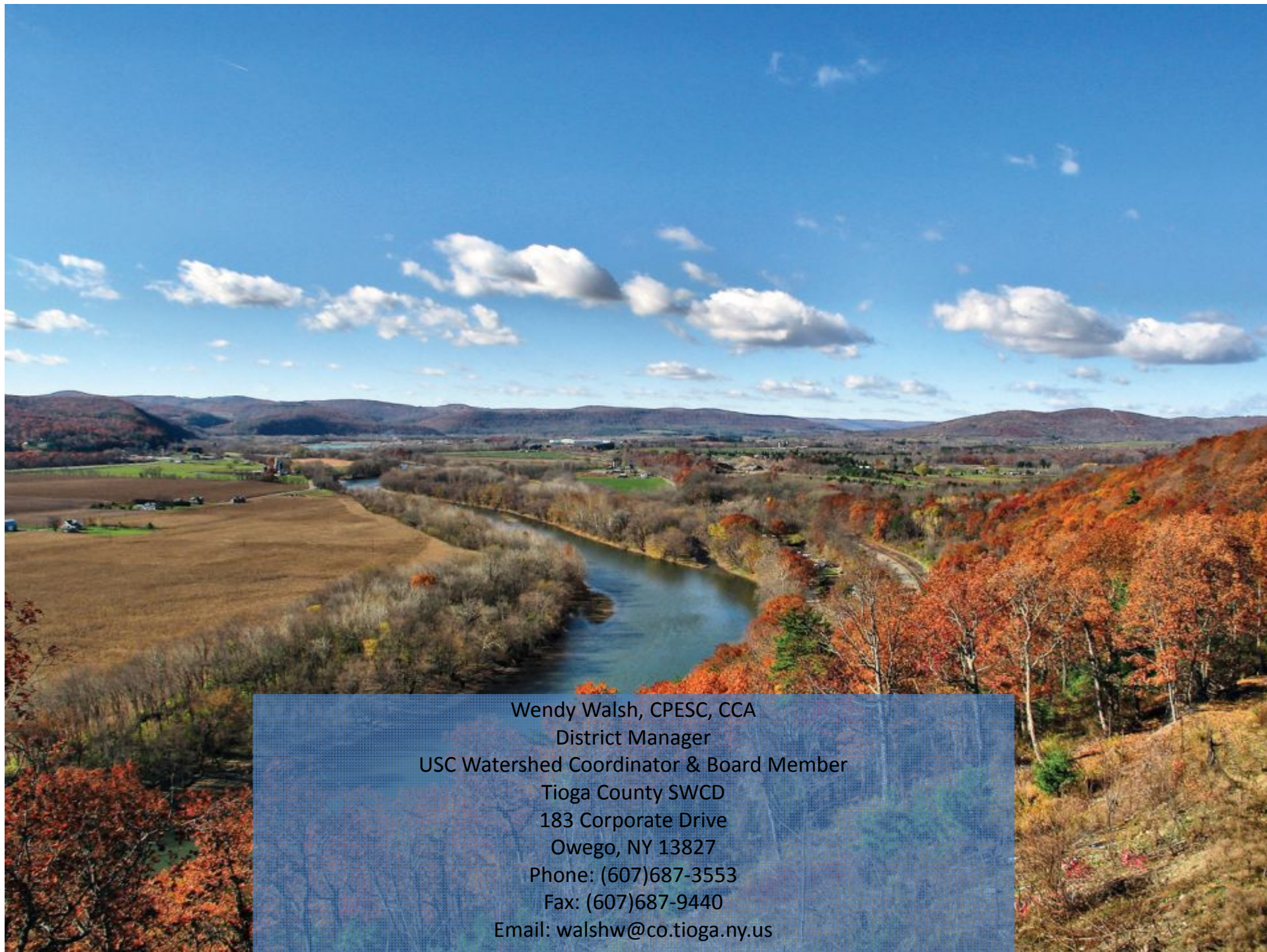
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Stream Corridor Rehabilitation

- NFWF Emergency Stream Intervention Program (ESI)
 - Includes training for municipal officials and highway superintendents
 - 2 hour presentation describing stream mechanics
 - 13 trainings held to date through out Upper Susquehanna River Basin
 - Trainings for highway superintendents, operators and contractors includes demonstration site
 - 3 day trainings held in Cortland, Tioga and Chemung Counties
 - Anticipate completing 3-4 additional 3-day trainings with demonstration sites next year

Upper Susquehanna Coalition Watershed Approach

- Moving forward: continue to look for additional funding sources to support focus areas
 - Awarded 2013 NFWF Chesapeake Bay Innovative Nutrient and Sediment Reduction Grant
 - Natural Infrastructure Stream Corridor Rehabilitation NY
 - Ag and Stream Implementation planned (buffers and stream corridor rehabilitation)
 - Applying for NYSDEC Water Quality Improvement Project (WQIP) grant program
 - Continue berm removal and wetland creation within the Upper Susquehanna River Watershed



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