



Save our Streams



To strive for the purity of water, the clarity of air, and the wise stewardship of the land and its resources; to know the beauty and understanding of nature and the value of wildlife, woodlands, and open space; to the preservation of this heritage and to man's sharing in it.

The Codorus Creek watershed is located in southern York County, south-central Pennsylvania.

- Includes 278 square miles of drainage area
- South Branch (68 square miles)
 - East Branch Codorus (44.5 square miles)
 - West Branch (165.5 square miles)

Results of a watershed assessment revealed that there is significant stream impairment, primarily stream bank erosion and channel migration.

Over 447 miles of stream were assessed in the watershed.

- 65 miles (23%) were severely impaired
- 228 miles (51%) were moderately impaired
- 154 miles (26%) were slightly impaired/not impaired.

A Watershed Assessment Map was prepared using ArcGIS to graphically show the locations, magnitude and extent of impaired streams and other important watershed features. Stream restoration work is currently planned and underway in the East, South and West Branches. It is estimated that it will take up to 20-years to completely implement the restoration of severely and moderately impaired streams in the watershed.

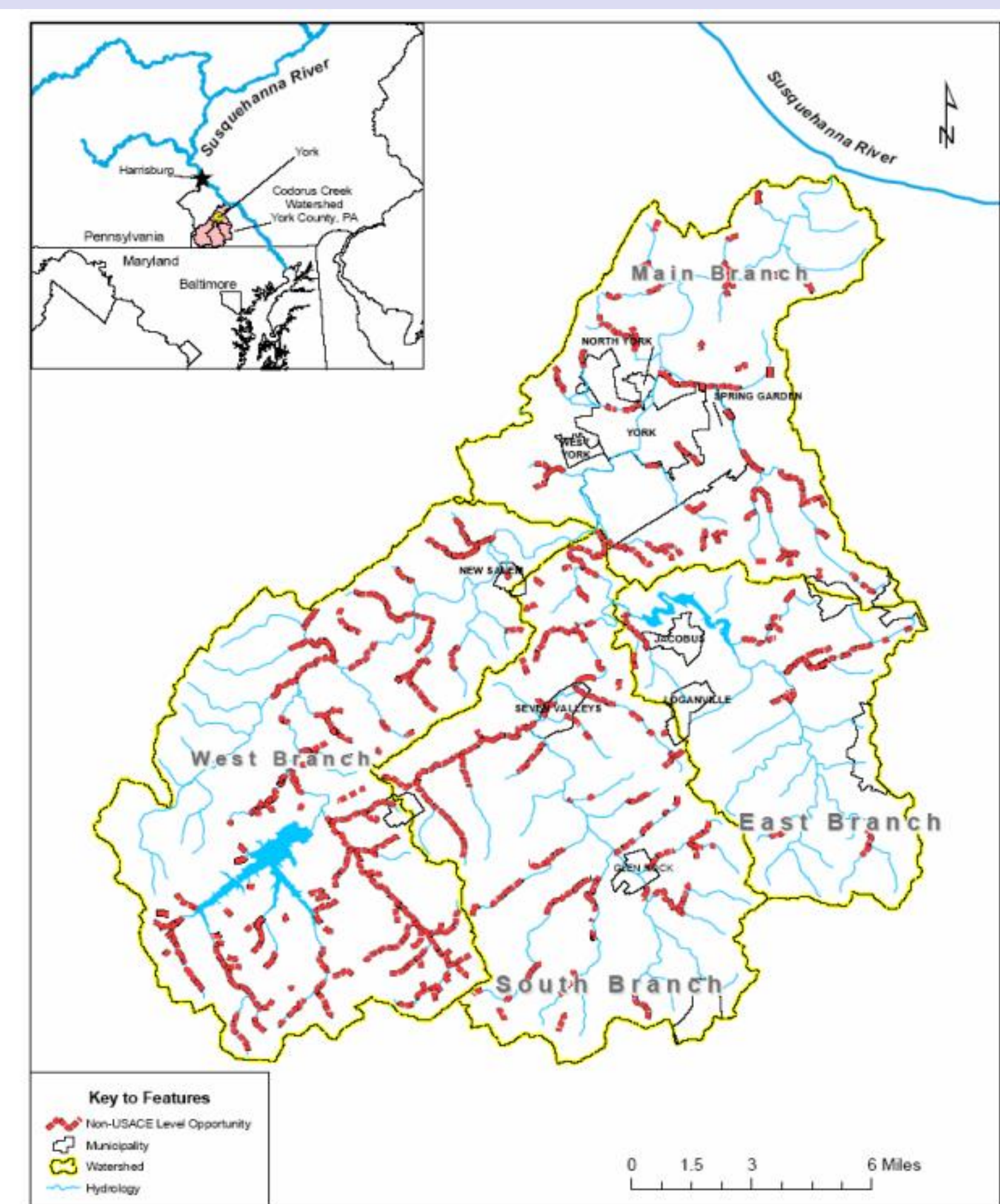


Figure 5-1. Stream Restoration Opportunities in Codorus Creek Watershed

Stream Restoration

Stream restoration is returning degraded ecosystems to a stable, healthy condition. The activities involved aim to restore the natural state and functioning of the stream in support of biodiversity, recreation, flood management and landscape development.

24 projects Totaling \$4,923,270

Environmental Concerns before Restoration

- Severe Erosion
- Nutrient Pollution
- Lack of Fish Habitat
- Surface Runoff
- Low Infiltration Rate
- Poor Water Quality
- Unstable stream structure



IWLA State/Federal Funded Projects

Fiscal Year	Municipality	Amount	Project Description
1999	Multiple	\$264,000	Project continues restoration efforts in the South Branch Codorus Creek watershed, which is affected by entrenched and eroding channels and banks, contributing a significant amount of nonpoint source pollution and sediment load downstream. Stream conditions and needs were prioritized to direct restoration efforts to the most degraded areas first with state-of-the-art BMPs designed to mitigate damaging flows. (Circle K)
2000	Shrewsbury, Springfield	\$90,308	Restore 2100 feet of stream, using fluvial geomorphic techniques.
2000	Multiple	\$52,267	Restoration of two stream reaches (totaling 7400 feet) in the Seaks Run Watershed, using fluvial geomorphic restoration techniques.
2001	York, Springfield	\$22,300	Phase III Stream Restoration on the East Branch of the Codorus Creek.
2001	York, Springfield	\$407,870	Phase III Stream Restoration on the East Branch of the Codorus Creek.
2001	Multiple	\$310,000	Devore-Phase III of South Branch Codorus Creek Stream Restoration.
2002	Springfield, Codorus	\$534,120	This project will implement 10,650 feet of stream restoration in the South Branch Codorus Creek Watershed using natural stream channel design principles.
2002	Springfield	\$167,260	This project will continue stream restoration efforts in the East Branch Codorus Creek Watershed. This project will prevent non-point source pollution, protect the trail from bank erosion, improve aquatic habitat, reestablish over 3,000 of riparian buffer, and control invasive plant species.
2002	Springfield	\$208,820	This project will continue restoration work in the East Branch Codorus Creek Watershed. Approximately 4,150 feet of stream will be restored using natural channel design. The reduction of sediment will also help protect Lake Redman, a public drinking water supply.
2003	Multiple	\$246,490	Continuation of Stream Restoration efforts (G2 funded) on the Codorus Creek.
2004	Multiple	\$25,000	Continuation of stream restoration monitoring efforts and to complete maintenance work on completed stream projects in the South and East Branch of the Codorus Creek.
2004	Springfield, North Hopewell	\$49,000	Continuation of NCSD Stream Restoration work in the East Branch Codorus Creek W.S. Funding is for survey, design and permitting on Reach EBCC-26-2 and for Construction on EBCC-23.
2006	North Hopewell & Springfield Townships	\$301,866	The site proposed for restoration funding is a high priority site identified in the East Branch Codorus Creek W.S. Assessment. The proposed project is currently experiencing accelerated bank erosion and channel migration. Restoration will eliminate sediment loading to the W.S. and reduce water supply treatment costs for York Water Company.
2006	Codorus Township	\$356,888	The restoration of the McClelland Pasture will eliminate the excessive sediment loading and improve fishery habitat. The project design is completed, paid for through DEP & EPA 319 funds. Construction funding is needed to complete the project.
2006	Codorus and Springfield Townships	\$731,044	The funding for this project (Phase 1) will continue stream restoration efforts in the South Branch Codorus Creek Watershed. The project is located along SR616 in Codorus and Springfield Townships and is approx. 2,400 feet of restoration on the South Branch and approx. 700 feet on Cherry Run. These projects are located between Phase IV projects upstream and Phase III (SBCC-25 Granary Road).
2006	North Hopewell & Springfield Townships	\$696,826	Restoration of the Godfrey Pasture will eliminate the excessive sediment loading and improve fishery habitat. The project design work is complete, paid for through DEP & EPA 319 funds. Construction funding is needed to complete the project.
2007	Codorus Township	\$30,000	Implementation of NSCD Stream Restoration techniques on Pierceville Run - Mitchell Pasture subwatershed of the South Branch Codorus Creek.
2007	Codorus Township	\$100,000	Implementation of NSCD Stream Restoration techniques on Pierceville Run - Rockville Road subwatershed of the South Branch Codorus Creek.
2013	Codorus & Springfield Townships	\$58,905	Design and permitting on a 1,300 linear-foot reach of South Branch Codorus Creek.
2013	multiple	\$59,925	Design and permit a 2,000 linear foot reach of Barshinger Creek for a natural channel design - type restoration.
2013	Chanceford & Windsor Townships	\$70,000	The project will design permit and implement 1,200 linear feet of natural channel design restoration along an impaired reach of Pine Run in the Muddy Creek Watershed.
2013	Multiple	\$60,500	The project will design, permit and construct natural channel design restoration along a 2,100 linear foot section of the East Branch of Codorus Creek, install cattle exclusion fencing, and plant a 35 ft buffer.
2014	Codorus & Springfield Townships	\$79,881	Proposal is to design and permit 1800 feet of bank stabilization along South Branch Codorus as well as along 700 feet on Centerville Creek.

The York Chapter of the Izaak Walton League of America has developed various partnerships for the restoration of the East Branch Codorus Creek. To date it is estimated that the York Chapter of the Izaak Walton League has provided in-kind restoration funding from it's membership and project partners valued at over \$738,000. Examples of in-kind restoration work include education, project coordination, assisting in planting riparian buffer, building bird nesting boxes, providing site monitoring and biological assessments at restoration sites both pre and post-construction.



At Stream Sites DO NOT...

- Disturb soil
- Spray vegetation
- Fertilize near stream
- Allow grazing in stream or buffer zone
- Drive in stream
- Build within the Limit of Disturbance



By acting locally we can make a difference globally. Silt in Chesapeake Bay

