

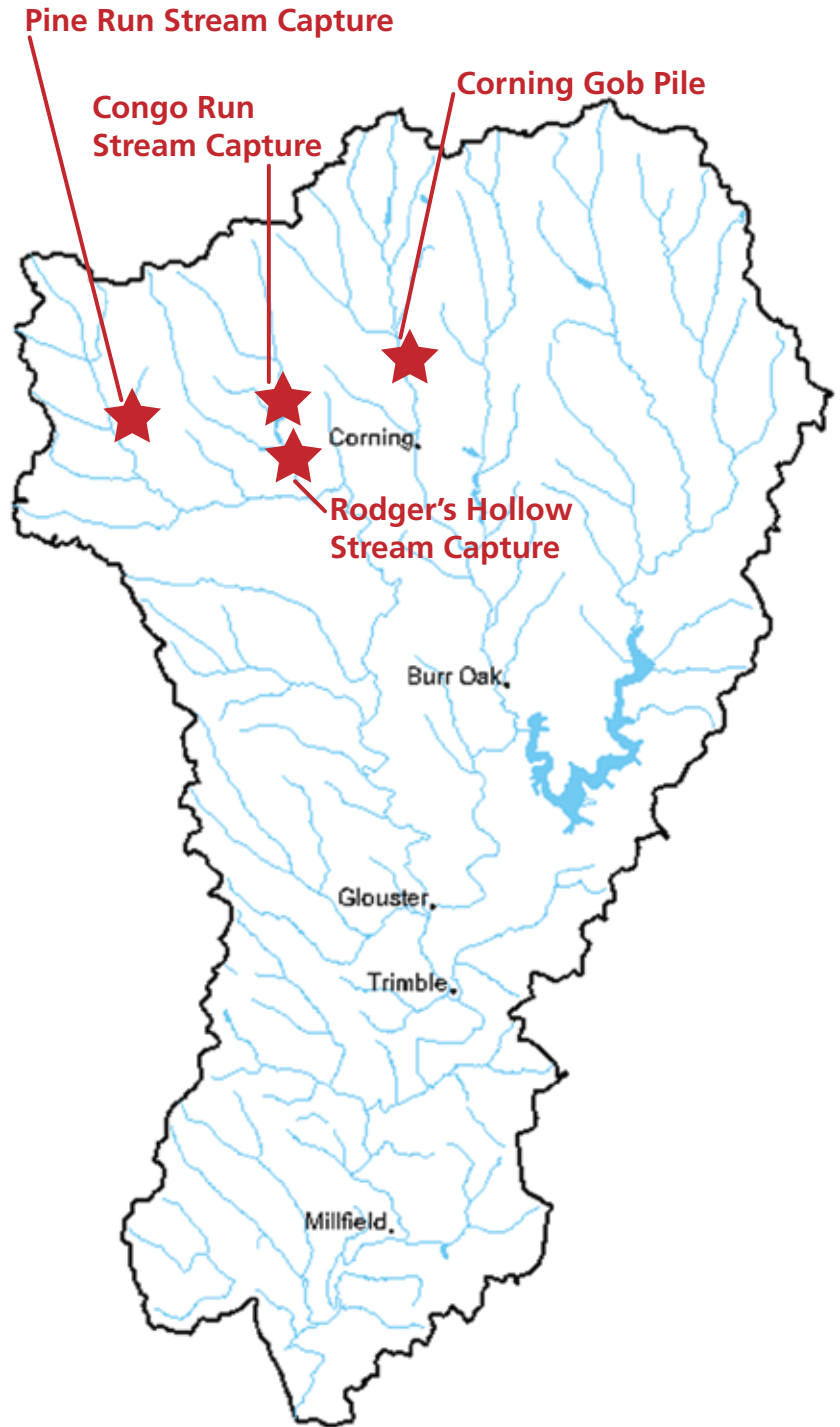
SUNDAY CREEK WATERSHED

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- The Sunday Creek Watershed Group emerged from local residents' concerns for the health of the Sunday Creek. Currently, we are a project of Rural Action. The Sunday Creek Watershed group office is located on 69 High St. Glouster Ohio 45732. The phone number is 740-767-2225 and our web page is <http://www.sunday-creek.org>. Our most active partners are: Ohio Department of Natural Resources the divisions of Mineral Resource Management and Soil and Water Conservation; Ohio Environmental Protection Agency; Office of Surface Mining; Ohio University; ILGARD; Hocking College; Trimble and Miller School District; Rural Action's Environmental Learning Program and Sustainable Forestry; Local Village Councils; Local Township Trustees; Little Cities of Black Diamonds; Buckeye Trail Group; Moose Lodge; Wayne National Forest; Burr Oak State Park.

- Our mission statement, as adopted by the Sunday Creek Watershed Group in 2000; "The Sunday Creek Watershed Group is committed to restoring and preserving water quality through community interaction, conservation, and education; in pursuit of a healthy ecosystem capable of supporting bio-diversity and recreation."

- The Sunday Creek Watershed is located in the Appalachian foothills, in the unglaciated part of Ohio. It is mostly rural with many small villages throughout, and the majority of the land is privately owned. The Sunday creek watershed starts in the East Branch, north of Rendville and the West Branch at Shawnee. The creek follows SR 13 through Corning, Glouster, Millfield and it goes into the Hocking River right in Chauncey. The watershed covers 139 square miles crossing Athens (38.8%), Perry (42.84%), Morgan (18.35%), and Hocking (0.01%) Counties. According to the Ohio Department of Natural Resources, in 1994, land cover classification for Sunday Creek consisted of 78% wooded, 17% agricultural, 2.4% brush, 1% urban, 1% open water, 0.3% barren, and 0.2% non-forested wetland (Map 2: land use/land cover). The U.S. Forest Service manages approximately 15% of the total acreage.



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• In the fall of 1999, Jim Hart began putting together a list of other local residents interested in water quality in the Sunday Creek watershed. A group of over 20 people attended the first meeting, which was held in the Trimble High School library. At the beginning, the group focused on organization, establishing a mission, and getting a sense of the community's concerns for the Sunday Creek. In 2000, the group partnered with Rural Action and got its first full time Americorp VISTA. That year we received an EPA 319 planning grant to develop a management plan. With that grant we completed a State Endorsed Management Plan and an Acid Mine Drainage Abatement Plan with additional funding from ODNR-MRM. In 2002, we received a six year ODNR Soil and Water Conservation Wa-

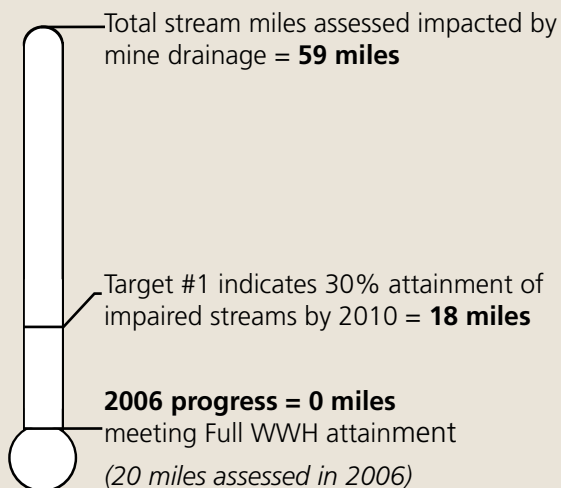
tershed Coordinator grant. In 2003 we began our first EPA 319 2002 implementation grant. Currently we are in the last year of our second (2004) EPA 319-implementation grant. We also received an Appalachian Clean Stream Initiative Grant from OSM. All of this funding has been made possible with our strong partnership and match funding from the ODNR division of Mineral Resource Management. We have finished our first acid mine drainage remediation project at Congo Run, a subsidence closure. The SCWG is currently coordinating major reclamation projects in the West Branch of Sunday Creek and Headwaters. We have also completed 17 upgrades of septic systems, planted thousands of trees, cleaned up over 200 tons of garbage, and educated thousands of students.

Reductions

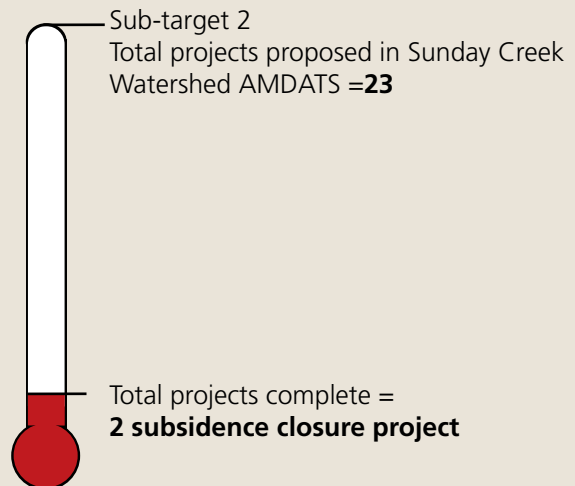
Project Name	Year Completed	Acres Captured	Agencies funding	Estimated water diverted from entering the deep mine
Congo Run CR-15	2004	72	ODNR-DMRM	24,000,000 gallons/yr
Pine Run	2007	138	ODNR-DMRM	50,867,000 gallons/yr

Two stream captures located in the Sunday Creek Watershed were closed and completed from 2004-2007. A total of 210 acres surface drainage area drained year round into the deep mines and as a result of closing these subsidence holes 74,867,000 gallons per year were diverted from entering into the deep mine thus abating the generating of acid mine drainage.

Attainment Miles



Completion



Costs

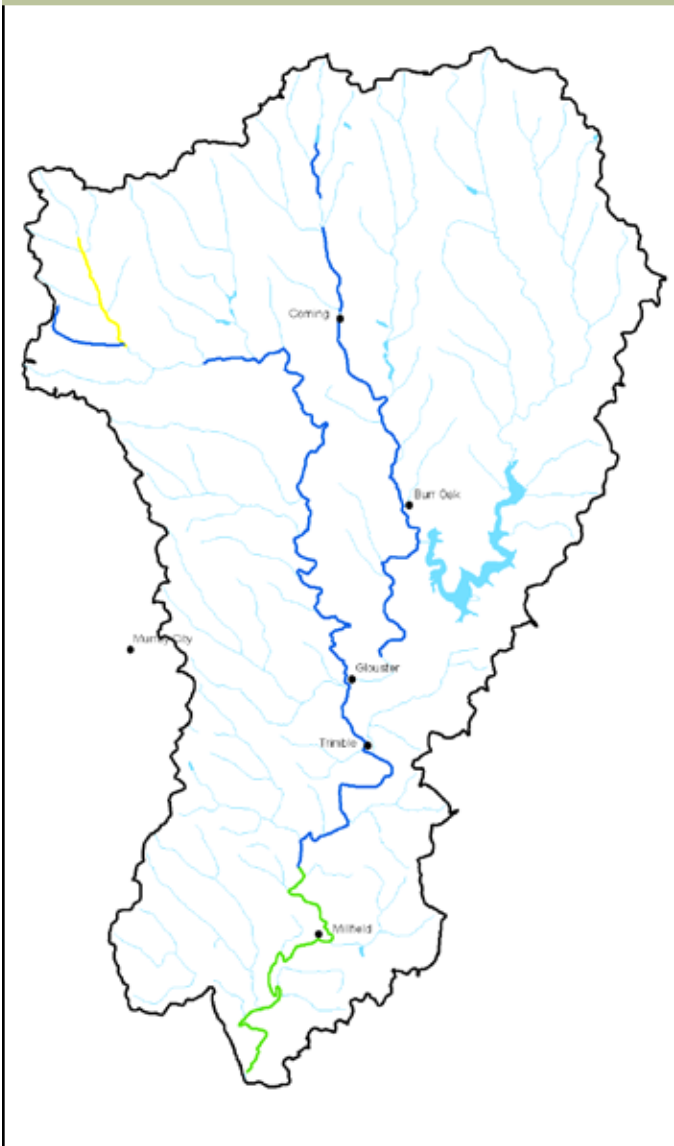
Total costs = \$139,066
(excluding Congo Run CR-15 design)

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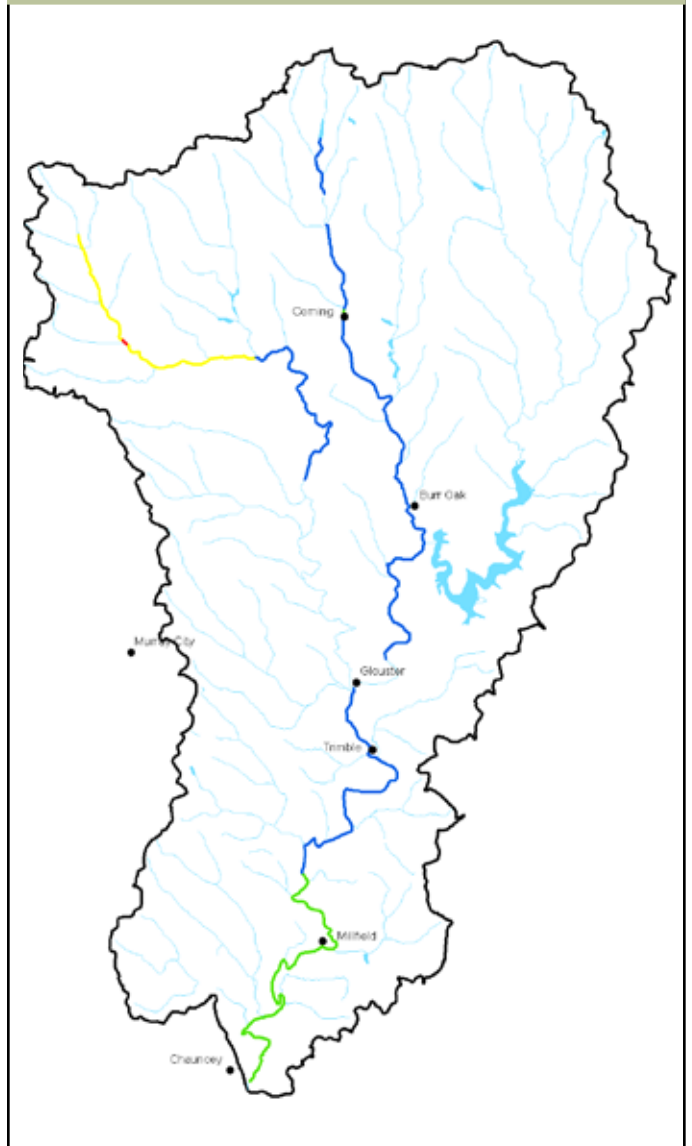
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Chemical Water Quality

Sunday Creek baseline pH



Sunday Creek 2006 pH



Lab pH

-  < 4
-  4 - 5.4
-  5.5 - 6.4
-  > 6.4

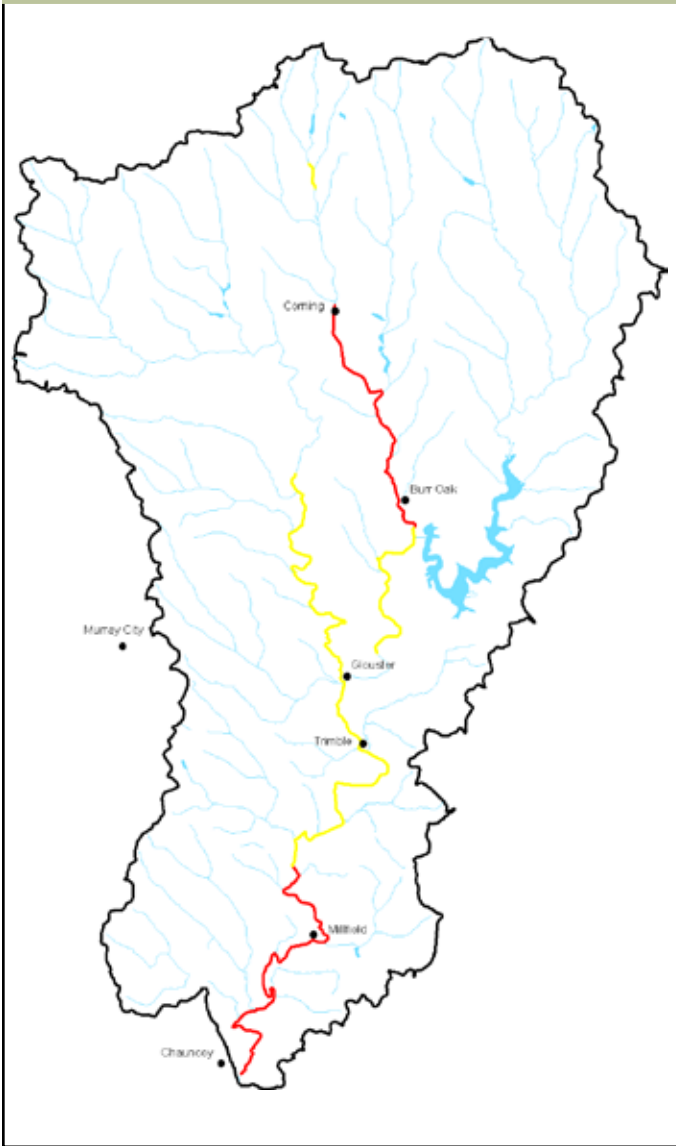
Water quality along the West Branch Sunday Creek has been degrading since baseline conditions in 2001. Values of average pH dropped from >6.4 to 4.0-5.4 range in 2005 and 2006. These pH values have dropped showing poorer water quality downstream of Drakes. The subsidence features in Rodger's Hollow have increased in size and have been continuing to funnel more water into the deep mines that then drain seep outlets in Drakes. After the Rodger's Hollow project is complete, these seep discharges in Drakes are expected to decrease, improving water quality along the West Branch of Sunday Creek. Sunday Creek mainstem downstream of Truetown continues to show pH values of less than 6.5.

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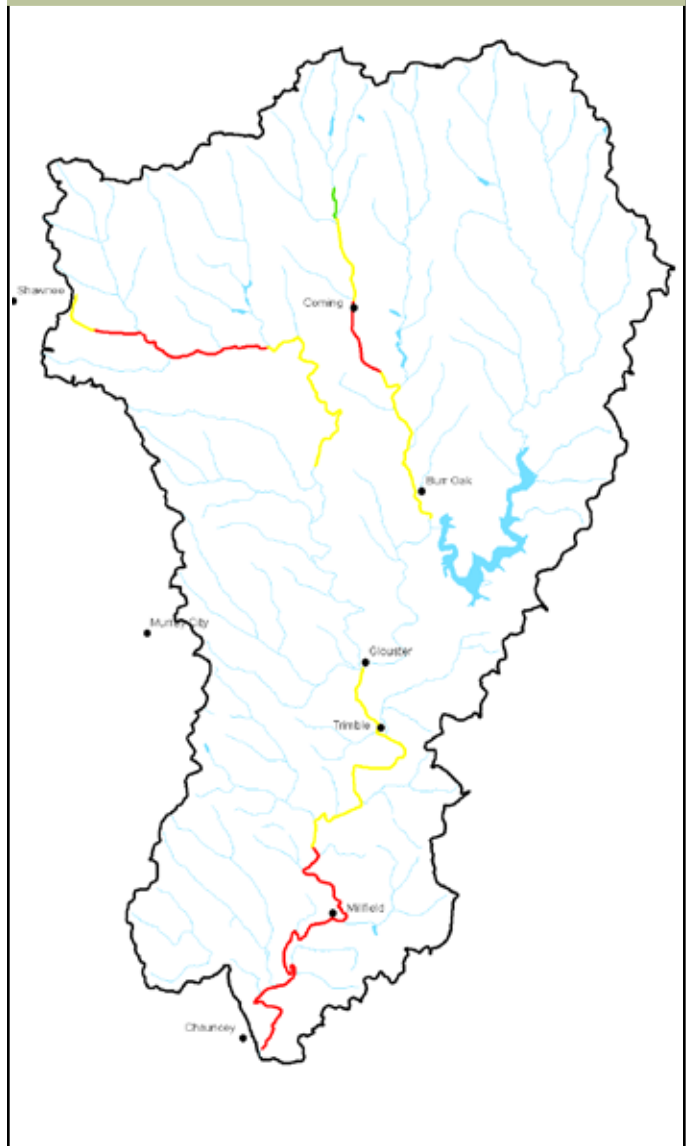
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Biological Water Quality

Sunday Creek Baseline MAIS



Sunday Creek 2006 MAIS



Macroinvertebrate Aggregated Index for Streams

-  0 - 7
-  8 - 11
-  12 - 15
-  > 15

Macro invertebrates were sampled using the MAIS index in 2006. No changes have been recorded from 2005 to 2006, as restoration projects are completed, an increase in MAIS scores are expected.