

- Huff Run flows from the Morges community in Carroll County, into Tuscarawas County and has its confluence in the Conotton Creek just South of Mineral City, Ohio. Huff Run is 9.9 miles long with a 13.9 square mile watershed. Almost all land east of State Route 542 (about 2/3 of the watershed) has been mined for coal and some limestone and clay. Because much of the land mined was not reclaimed, the watershed is plagued with the resulting acid mine drainage. Other pollution issues in the watershed include illegal dumping, poor riparian buffers, raw sewage entering the stream, oil and gas impacts, and agricultural impacts.

- The Huff Run Watershed Restoration Partnership Inc. (HRWRP) was founded in 1996 by a group of concerned citizens. The HRWRP has partnered with ODNR/MRM, Rural Action, OEPA, Crossroads RC&D, OSM and others to fulfill their mission statement

which is "To restore the Huff Run watershed by improving water quality and enhancing wildlife habitat, through community support and involvement."

- The Farr Anoxic Limestone Drain, the first passive treatment system in the watershed, was constructed in 2000. Also, HRWRP can boast of building the first bioremediation system in Ohio with their Linden Restoration Project. They also were awarded a US EPA Targeted Watershed Grant in 2005 for their Belden Successive Alkaline Producing System. At their 10 year anniversary, seven restoration projects have been completed with funding obtained for five more.

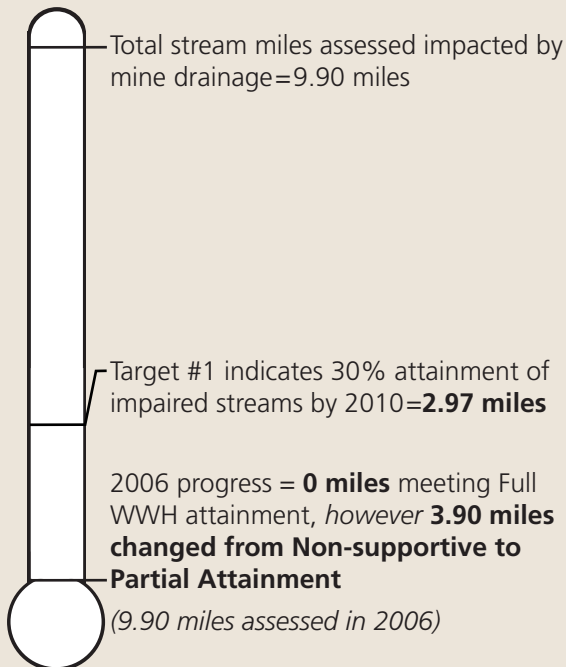
- To learn more about the HRWRP, visit their website at [www.huffrun.org](http://www.huffrun.org) or call 330-859-1050 to reach their office.

**Reductions**

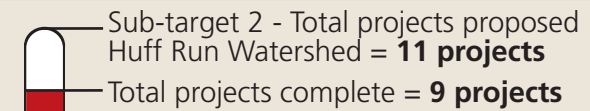
**Total acid load reduction = 82 lbs/day**  
at site HRR08

**Total acid load reduction = 141 lbs/day**  
at project effluent sites Linden, Lindentree,  
and Lyons, where acid load reduction could  
be calculated.

**Attainment Miles**



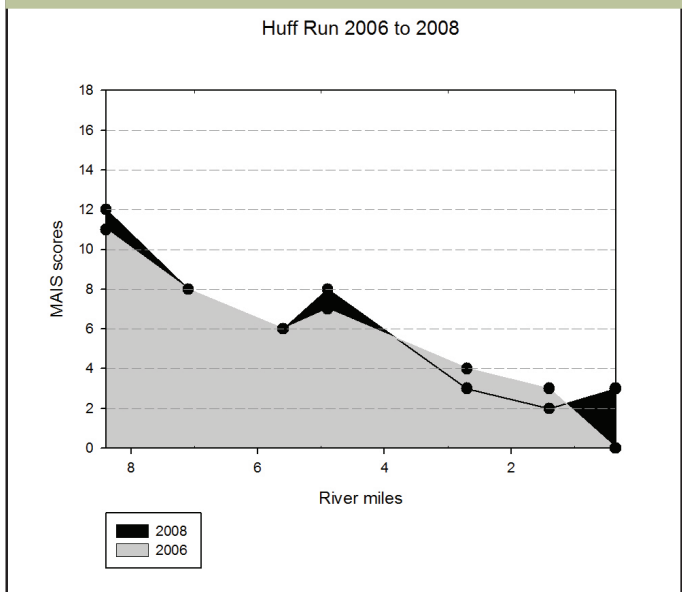
**Completion**



**Costs**

Design \$388,460 (excluding Huff Run AML)  
Construction \$3,106,739 (excluding Huff Run AML)  
**Total cost through 2008=\$3,495,199**

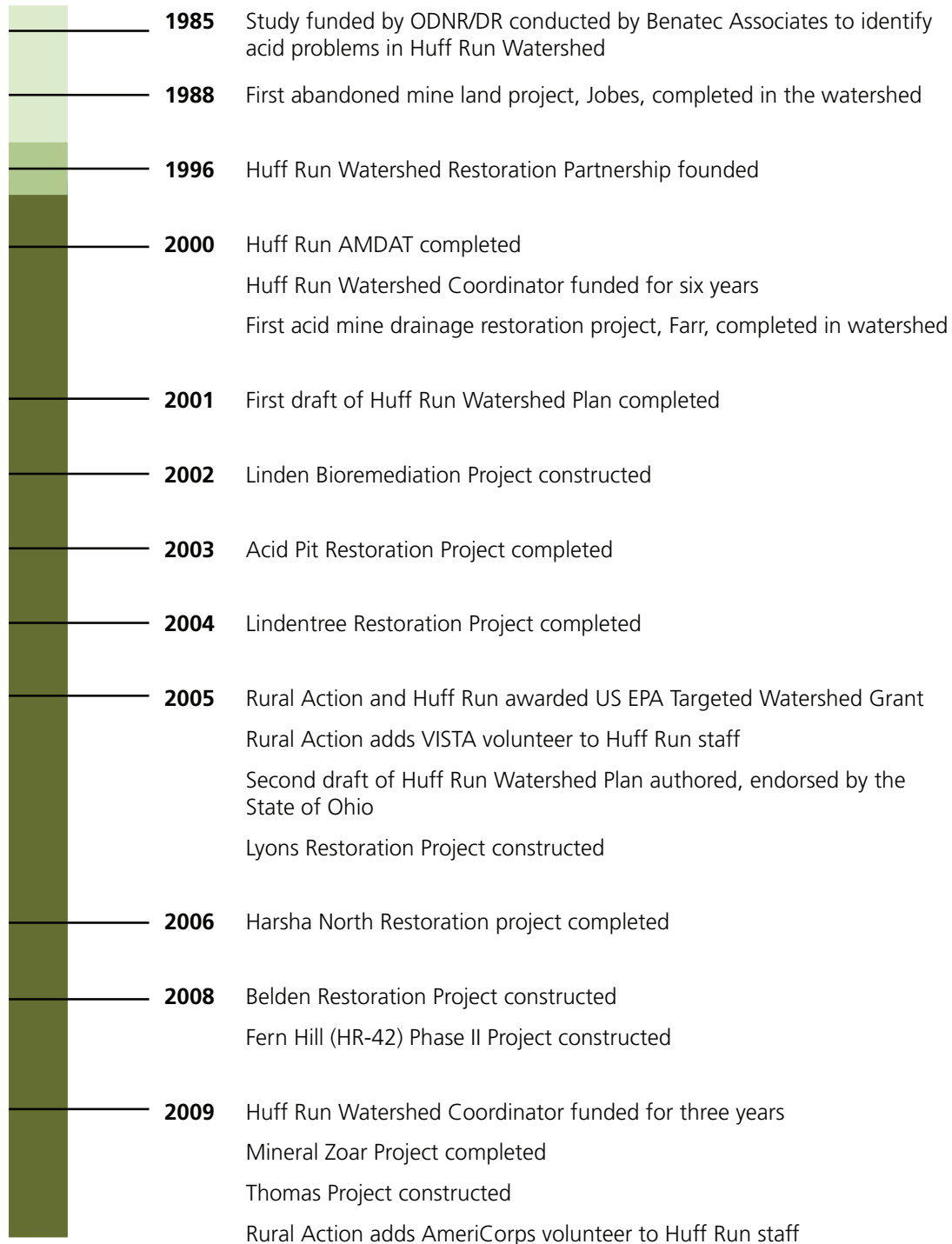
**Figure 4. Area of degradation along Huff Run mainstem in 2006 and 2008.**



## Timeline of the Huff Run Watershed Project Milestones & AMD Projects

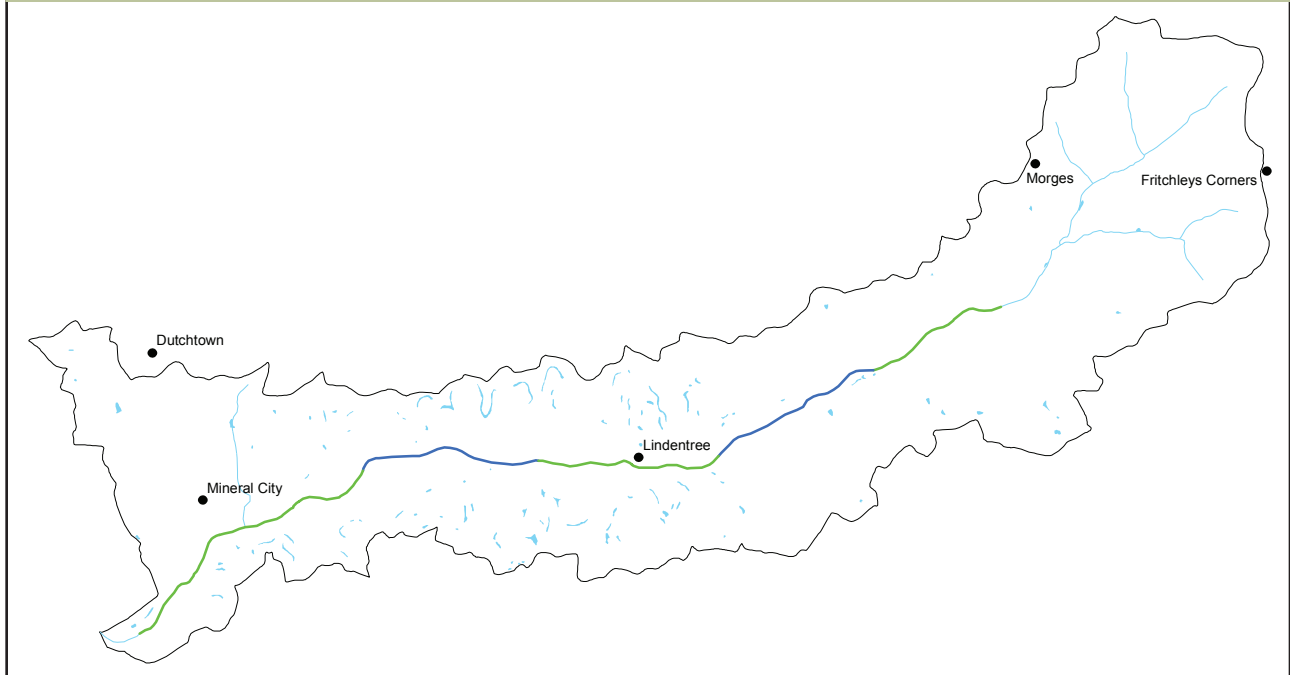
This timeline demonstrates this history of the Huff Run Watershed Restoration Partnership and the work done to restore Huff Run. AMD projects have been administered through Crossroads RC&D, the Tuscarawas Soil and Water Conservation District and the present sponsor of Huff Run,

Rural Action. Funding has been secured for projects through the Office of Surface Mining, Ohio EPA 319 Program, US EPA Targeted Watershed Grant Program and match from the Ohio Department of Natural Resources, Division of Mineral Resources Management.

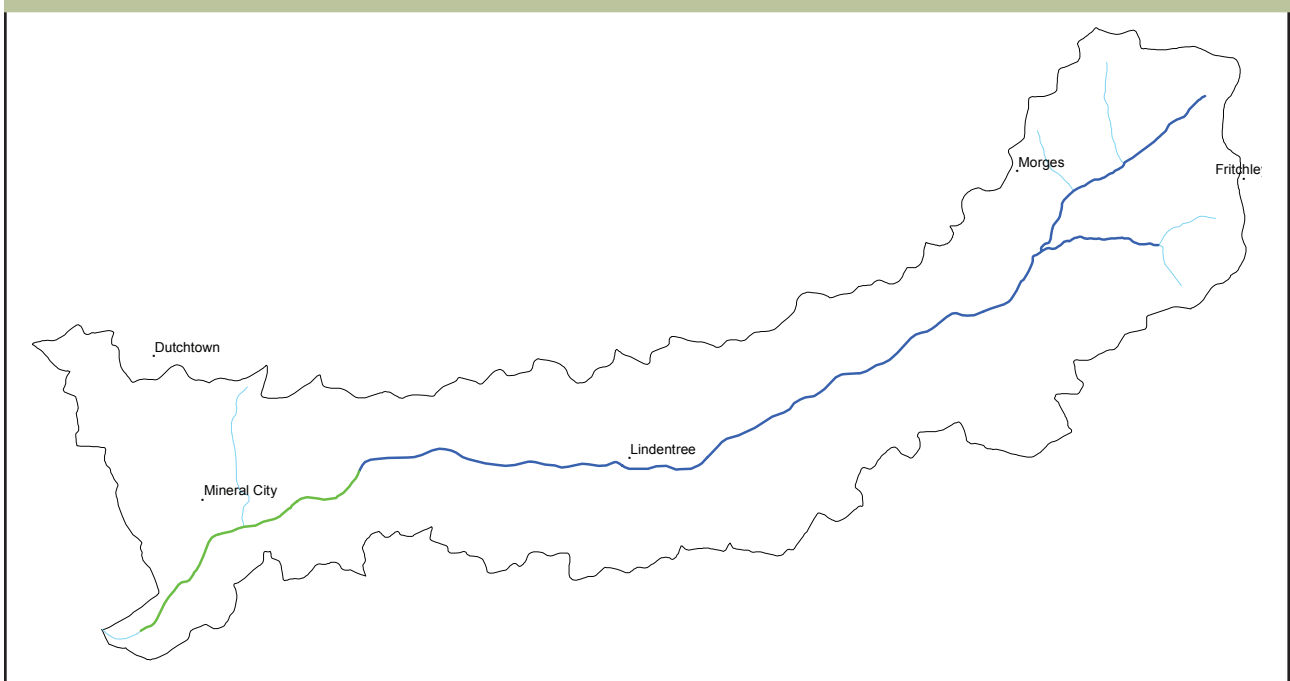


Chemical Water Quality

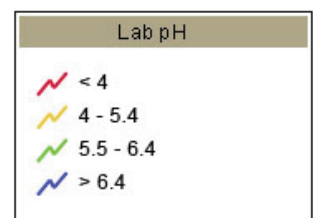
Huff Run baseline pH



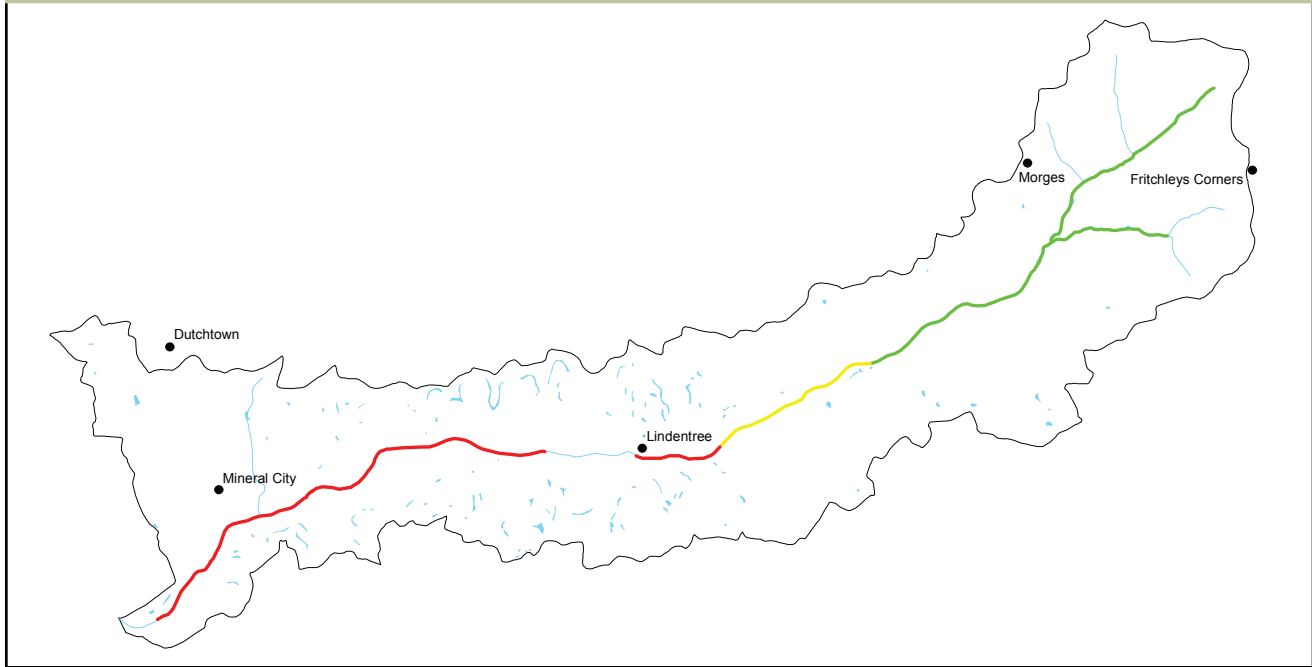
Huff Run 2008 pH



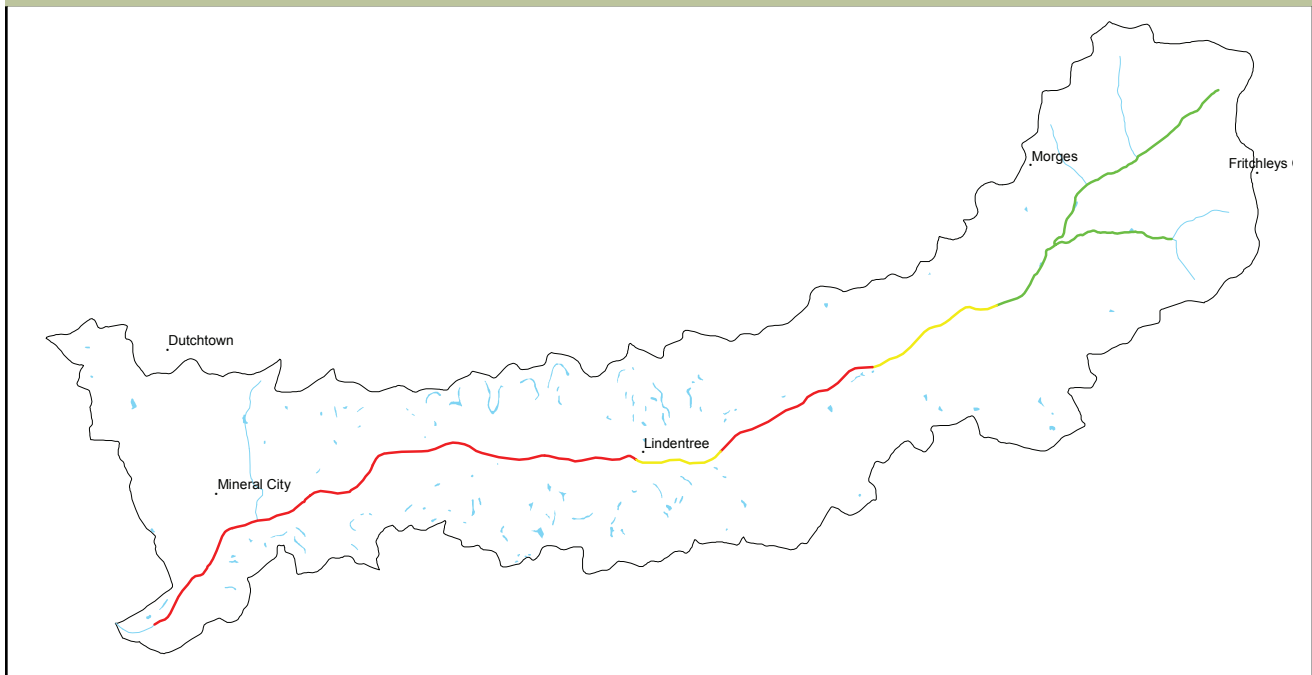
Huff Run pH values have improved from baseline conditions (1985-1998) to 2008. Three mainstem sections totaling 3.7 miles have improved pH values from the range 5.5–6.4 to now meeting water quality standards pH >6.5 since baseline. Huff run mainstem supports 8.3 miles in total that meet the pH standard (>6.5). Sites HRR05, HRR06, to HRR07 have increased in pH and decreased their net acidity values since 2007.



Huff Run 2005 MAIS



Huff Run 2008 MAIS



Huff Run aquatic life use has improved from baseline conditions (1985-1998) to 2005. Aquatic life use changed from WWH non-sportive to WWH partial attainment along 3.9 miles in Huff Run. In 2008 the MAIS score increased in the headwaters slightly (HR0, RM 8.4) and at HR11/HRR04 the site downstream of Lindentree Project, a pattern held over from 2007.

The area of degradation analysis for the seven mainstem sites along Huff Run in 2008 (-95, Figure 4), shows little change between 2005 (-84), 2006 (-95) and 2007 (-80).

