

CONCLUSIONS

Except for the lingering water quality effects from old mining operations, Drury Run and Birch Island Run are two relatively undisturbed and pristine forested watersheds within the West Branch Susquehanna Subbasin. By focusing on the remediation of the few problem areas in each of these watersheds, clean water and healthy aquatic ecosystems can be restored throughout these

streams. Not only will restoration efforts contribute to the overall restoration of the West Branch Susquehanna River but they will also improve the local brook trout fishery in both Drury Run and Birch Island Run. SRBC staff is currently pursuing funding opportunities to begin some of the proposed restoration work and are looking to partner with other organizations in this effort.

Appendix A

Station ID	County	USGS Quad	Latitude	Longitude	Site Description
BIRC000.1-4177	Clinton	Snowshoe NW	41.19650	-77.97560	Mouth of Birch Island Run
BIRC001.3-4177	Clinton	Snowshoe NW	41.20328	-77.99425	Birch Island Run above Little Birch Island Run
BIRC003.8-4178	Clinton	Pottersdale	41.22356	-78.02728	Birch Island Run downstream of Amos Branch
BITR000.1-4178	Clinton	Pottersdale	41.23267	-78.01613	Mouth of unnamed tributary to Birch Island Run
BIRC005.1-4178	Clinton	Pottersdale	41.23028	-78.04252	Birch Island Run above Amos Branch
AMOS000.1-4178	Clinton	Pottersdale	41.22457	-78.03047	Mouth of Amos Branch
LBIR000.1-4177	Clinton	Snowshoe NW	41.20212	-78.99516	Mouth of Little Birch Island Run
LBTR000.1-4178	Clinton	Pottersdale	41.19620	-78.01803	Mouth of unnamed tributary to Little Birch Island Run
LBIR001.0-4178	Clinton	Pottersdale	41.19628	-78.00862	Little Birch Island Run downstream of unnamed tributary
LBIR002.0-4178	Clinton	Pottersdale	41.20118	78.02824	Little Birch Island Run upstream of unnamed tributary
DRUR008.5-4177	Clinton	Tamarack	41.41394	-77.83613	At the outflow of Tamarack Swamp
DRUR007.8-4177	Clinton	Tamarack	41.40734	-77.83538	Headwaters of Drury Run along Rt. 144
DRUR006.5-4177	Clinton	Tamarack	41.38274	-77.83426	Drury Run along Rt. 144
DRUR003.7-4177	Clinton	Renovo	41.35948	-77.81413	Drury Run directly upstream of Sandy Run
DRUR003.5-4177	Clinton	Renovo	41.35948	-77.81431	Drury Run downstream of Sandy Run
DRUR002.3-4177	Clinton	Renovo	41.34159	-77.79605	Drury Run downstream of Woodley Draft and Whiskey Run
DRUR001.0-4177	Clinton	Renovo	41.33629	-77.78462	Drury Run near mouth
SAND000.1-4177	Clinton	Renovo	41.36005	-77.81345	Mouth of Sandy Run
STON000.1-4177	Clinton	Renovo	41.33852	-77.78555	Mouth of Stony Run
SAND001.8-41.77	Clinton	Tamarack	41.38052	-77.80850	Sandy Run upstream of Discharge 5
SANDD01.0-4177	Clinton	Tamarack	41.37969	-77.80870	Discharge 5
SAND001.6-4177	Clinton	Tamarack	41.37908	-77.80936	Sandy Run downstream of Discharge 5
WOOD000.1-4177	Clinton	Renovo	41.35355	-77.80856	Mouth of Woodley Draft
WHIS000.1-4177	Clinton	Renovo	41.34360	-77.79971	Mouth of Whiskey Run
STON002.2-4177	Clinton	Renovo	41.36443	-77.78256	Stony Run upstream of Slab Hollow
SLAB000.1-4177	Clinton	Renovo	41.36442	-77.78345	Mouth of Slab Hollow
KELL000.1-4177	Clinton	Renovo	41.35784	-77.78199	Mouth of Kelly Hollow
STTR000.1-4177	Clinton	Renovo	41.35026	-77.79074	Mouth of western unnamed tributary to Stony Run
STOND01.0-4177	Clinton	Renovo	41.34621	-77.78619	Discharge 16

REFERENCES

- Baker, J.P. and C.L. Schofield. 1982. Aluminum toxicity to fish in acidic waters. *Water, Air, and Soil Pollution* 18:289-309.
- Buda, S. 2010. West Branch Susquehanna Subbasin Year-1 Survey: A Water Quality and Biological Assessment, March-July 2009. Publication No.268. Susquehanna River Basin Commission, Harrisburg, Pennsylvania.
- Cravotta, C.A. III, and Kirby, C.S. 2004. Effects of Abandoned Coal-Mine Drainage on Streamflow and Water Quality in the Shamokin Creek Basin, Northumberland and Columbia Counties, Pennsylvania, 1999-2001, U.S. Geological Survey Water-Resources Investigations Report 03-4311.
- D'Amore, D. 2011. District Forester, Sproul State Forest. Department of Conservation and Natural Resources, Bureau of Forestry. Personal Communication.
- Earle, J. and T. Callaghan. 1998. Impacts of Mine Drainage on Aquatic Life, Water Uses, and Man-Made Structures. In *Coal Mine Drainage Prediction and Pollution Prevention in Pennsylvania*. (K.B.C. Brady, M.W. Smith, and J. Schueck, eds.), The Pennsylvania Department of Environmental Protection, Harrisburg, Pennsylvania.
- Gagen, C.J. and W.E. Sharpe. 1987. Net sodium loss and mortality of three Salmonid species exposed to a stream acidified by atmospheric deposition. *Bulletin of Environmental Contamination and Toxicology*. 39: 7-14
- Kimmel, W.G. 1999. Macroinvertebrate Community Responses to Episodic Stream Acidification on the Laurel Hill in Southwestern Pennsylvania. In *The Effects of Acidic Deposition on Aquatic Ecosystems in Pennsylvania*. (W.E. Sharpe and J.R. Drohan, eds.), Proceedings of the 1998 PA Acidic Deposition Conference, Vol. II. Environmental Resources Research Institute, University Park, Pennsylvania.
- Simpson, K.W., R. Bode, and J.R. Colquhoun. 1985. The macroinvertebrate fauna of an acid-stressed headwater stream in the Adirondack Mountains, New York. *Freshwater Biology*. 15:671-681.
- Susquehanna River Basin Commission. 2008. West Branch Susquehanna Subbasin AMD Remediation Strategy: Background, Data Assessment and Method Development. Publication No. 254. Harrisburg, Pennsylvania.

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