

What's Flowing into Our Streams

Malvern Can Cut Stormwater Pollution...If We Want To

By Willistown Conservation Trust; **Director of Watershed Protection** Program Lauren McGrath, Communications Specialist Monica McQuail, and Watershed Conservation Associate Anna Willig Photos by Jennifer Mathes

In the Delaware River watershed where we live, human life and the life of the waterways have always been closely connected. In what is now greater Philadelphia, the Lenni Lenape people once lived adjacent to the tributary streams of the then-heavily-wooded region, relocating frequently along waterways in pursuit of fertile soils. Early Western European settlers used the Delaware River and its tributaries to ferry goods and agricultural products among settlements, and energy generated by the streams powered mills and tanneries.

Today, reservoirs like Springton Lake are fed by these streams and in turn serve as a water source for many people. Weekend anglers flock to Ridley Creek State Park and local favorite fishing holes along streams and creeks, and the beauty of the waterways defines the local landscape, with towns, streets, and communities named for the picturesque streams that flow through them.

Critically valuable headwater streams originate in many regions of Chester. As these streams fragment and branch in their reach toward the Delaware River, they traverse increasingly developed municipalities. Here in Malvern we have the headwaters of both the Crum and Valley Creeks.

We depend on these waterways, and



threaten the health and very existence of WCT hads found that one of the biggest winter months contributes to a higher many of these streams and tributaries, contributors to stream pollution in our area concentration of chlorides in our waters. with negative consequences for the *is stormwater runoff*. entire Delaware River basin. Degraded water quality, impaired water flow, and regional flooding threaten the health of many plant and animal species.

Closer to home, the Willistown Conservation Trust Watershed Protection Program has been monitoring portions of Ridley, Crum, and Darby on our lawns, leaky septic and sewer surfaces. But the reality is that many of Creeks to better understand the human impact on our water sources. Following

yet human development and activity three years of water chemistry analysis, The salt we spread on our roads in the

Runoff is rainwater that falls on impervious surfaces like rooftops, blacktop, sidewalks, and other developed land, before draining into our waterways, carrying all sorts of harmful chemicals with it. Nitrogen and phosphorus from the fertilizer we put reduces human activity and impervious systems, and animal waste have wound up in our streams at disconcerting levels. Borough where we are surrounded by

When these chemicals make their way into our waterways, they cause harm to sensitive species like native brook trout, freshwater mussels, and stream insects.

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One of the best ways to combat pollution from runoff is to conserve land and protect it from development, which us live in suburban areas like the Malvern

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impervious surfaces. So, what can we as individuals do to improve our stream health?

For starters, we can stop using or begin reducing our fertilizer use. Shifting from chemical fertilizers that feed the plants to an organic compost that feeds the soil will also benefit water quality. If chemical fertilizers or pesticides must be used, the Willistown Conservation Trust Watershed Protection Program recommends avoiding applying fertilizers right before a rainstorm.

Furthermore, we can work on bagging and properly disposing of our dog waste.

Protection Program advises residents and municipalities to limit the amount of road salt used in the winter. When a storm is coming, and using road salt is unavoidable, practice sweeping up road salt after the winter storm passes. Not only is this a great way to reduce the amount of salt entering our streams, but you can actually re-use that salt. Road salt is a natural preservative, so if stored properly (in a dry, cool, and sealed container, preferably with some charcoal in it to prevent clumping), your road salt can last longer, saving you money.

Another solution helps the environment in multiple ways: plant native plants. Planting rain gardens alongside roads and driveways can help collect and filter stormwater, thanks to the long roots that help rain soak into the soil. The turf grasses that are planted in yards have a shallow and dense root system, which can actually act as an impervious surface, adding to runoff woes. Native flowers, shrubs, and trees are great at absorbing excess nutrients and filtering out salts before they enter streams. Planting more of these plants will go a long way towards improving water quality. If every resident of the Malvern Borough planted one native species in their backvard, we would likely see improvement in our water quality. Our pollinators and bird species would also thank you for creating important habitat!

In the winter months, the Watershed

Not only do these action steps help keep pollutants out of our water, but they also align with the most recent Malvern Borough Comprehensive Plan, which aims to reduce stormwater and promote backyard native habitat. By working depends on it.

A portion of this text comes from "State of Our Streams Report: Understanding Water Quality in the Headwaters of Darby, Crum, and Ridley Creeks (2018 - 2021)." To read the report in full and learn more about our local waterways, visit www.wctrust.org/watershed.

About Willistown Conservation Trust: Letter to the Editor Found 20 miles west of Philadelphia,

Willistown Conservation Trust focuses Dear Malvernian Editor, on 28,000 acres within the watersheds of I am new to the area and very Ridley, Crum and Darby Creeks of Chester and Delaware Counties. Since 1996, the together as a community, we can make Trust has helped permanently conserve a difference in our stream health. Life over 7,500 acres, including three nature preserves open to the public: Ashbridge Preserve, Kirkwood Preserve, and Rushton Woods Preserve, which is home to Rushton Conservation Center and Rushton Farm. The Trust offers six renowned programs for public engagement and research: the Thank you for your apparent dedication Bird Conservation, Community Farm, Education and Outreach, Land Protection, Stewardship, and Watershed Protection Programs.

happily impressed by your free town newspaper (July/August issue). Thank you for providing information on the proposed pump tracks, full moon walks, endangered trees, the list of pesticides to be avoided, and the cute photo of my granddaughter's friend Autumn, young, prize winning, all locations recognizer.

to a healthy Earth.

I love the Malvernian!

Kind regards, Winni Troha

MORE BIG IDEAS FOR OUR TOWN

Why a New Comp Plan - cont'd - from page 5

Strategy 4-7: Provide adequate amenities throughout the Borough, particularly in the downtown area, for pedestrians (i.e., signage, benches, trash cans, shade trees, planters, public restrooms, etc.)

Strategy 1-5: Evaluate the siting of Electrical Vehicle (EV) charging stations with the Borough, including on Borough property, and ensure Borough ordinances promote and permit their installation at appropriate locations.

Read More-It's Our Town's Future

A full copy of the full draft plan is available on the Borough website www. Malvern.org.

About the Author

Dave Knies was appointed to the Malvern Planning Commission by Borough Council in 2006, and earned Master Planner certification by the Chester County Planning Commission in 2011. He was a member of the 2022 Comprehensive Plan Task Force.

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