Match each possible pollution with its solution.



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A watershed is formed by rain or snow that falls from the sky. The drop of water will sink into the soil, evaporate into the air or run off the surface of the ground. Surface water will eventually gather in a puddle, stream, or river or run off the surface of the ground. All the land area which drains into a body of water is called a watershed.

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What is a Watershed?

Watersheds are everywhere.

A watershed can be as small as a section of land that drains to from a puddle or as enormous as the Chesapeake Bay Watershed which collects water from several states and drains into the Atlantic Ocean Watershed. The cleanliness of the water that flows into a small stream will affect the larger river it drains into.

Every place on earth in which water falls on land is called a watershed. We all live in a watershed. Just as a city, county or state has boundaries, so does a watershed. A divide in elevation represents the boundary of a watershed. Think of this as a line that connects all the highest points in an area.

Elevated Landscape + Rain/Snow + Body of Water = A Watershed



Watersheds can include swamps, lakes, and ponds that produce very little movement. These are examples of the lentic movement.

Constantly moving (flowing) waters within watersheds can include streams, creeks, brooks, and rivers. These are examples of lotic movement.

Hint to remember: lotic is spelled with lo and flow is spelled with **lo**.

Different plants

and aquatic insects like the dragonfly

larva above and stonefly larva below

(known as macroinvertebrates) can

survive in different waterways, and

depend on the movement of the water

may also change the temperature and

the clarity of the water.

and the land around it. These differences

What is nonpoint source pollution?

Nonpoint source pollution comes from so many sources that one point cannot be identified. Rainfall or melting snow flows over and into the ground. It picks up and carries away both natural and human-made pollutants. These pollutants can end up in streams, rivers, wetlands, and even underground sources of drinking water. Nonpoint source pollution comes from a variety of human activities on the land and water. Each of us can contribute to the problem without realizing it. We all play a part.

Nonpoint source pollutants include:

- Excess fertilizers, herbicides and insecticides from home lawns, farms and towns.
- Oil, grease and toxic chemicals from vehicles, roadways, parking lots and boat fuels.
- Sediment and erosion from construction sites, pasture and crop lands and eroding streambanks.
- Bacteria and nutrients from pet waste, livestock in streams and failing family septic systems.
- De-icing chemicals or salt from treated roadways and sidewalks.



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Doe Run

Dry Run

Creek

Elders Run

Evans Run

Fox Rill

Frys Run

Goff Run

Groff Run

Lancaster County has many waterways including runs, steams, creeks and rivers. There are also ponds and lakes with aquatic plants, fish and wildlife that depend on clean freshwater and nutrients. The waterways in Lancaster County are named. Here's a listing of some of the waterways in Lancaster County:

Annan Run Bachman Run Back Run Ball Run Bells Run **Big Beaver Creek Big Spring Run** Black Creek Bowery Run Bowman Run Boyers Run Brubaker Run Buck Run Calamus Run Cedar Creek Chiques Creek **Climbers Run** Cocalico Creek Conestoga River Conov Creek Coopers Run Coover Rur

Dellinger Run Houston Run Donegal Creek Huber Run Hubers Run East Branch Octoraro Indian Run Jackson Run Kellys Run Eshleman Run Kendig Run Kettle Run Fisherman Rur Fishing Creek Knott Run Landis Run Lititz Run Furnace Rur Gables Run Goods Run Groff Creek Creek Haines Branch Hammer Creek Creek Harnish Run

Cover photo: Kellys Run, Lancaster County. Andrew C Albright

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House Rock Run Londonland Run Segloch Run Watson Run Manns Run Shawnee Run West Branch Little Shearers Creek McCreary Run Conestoga Creek Shells Run West Branch Meadow Run Shirks Run Octoraro Creek Meetinghouse Creek Middle Creek Shumans Run White Horse Run Indian Spring Run Mill Creek Silver Mine Run Williams Run Millers Run Snitz Creek Wissler Run Millway Run South Fork Big Wisslers Run Muddy Creek Beaver Creek Witmer Run Muddy Run Stauffer Run Witmers Run New Haven Run Stehman Run Stewart Run Nickel Mines Run Little Beaver Creek Pequea Creek Stony Run Strickler Run Little Chiques Creek Peters Creek Swarr Run Little Cocalico Creek Puddle Duck Creek Tobe Run Little Conestoga Reed Run **Reynolds Run** Trout Run Little Conestoga **Richardson Run Tucquan Creek** Little Conowingo Rife Run **Umbles Run** Rock Run Valley Run Little Muddy Creek Santo Domingo Creek Walnut Run