



## Match It Up

### Instructions

For each number in the **Pollution** Contributor column, write the letter of the **Best Management Practice** (BMP) listed in the second column that will best address it. If there is more than one BMP that addresses a Pollution Contributor, you should pick the best possible option. Complete both the **urban** and **rural** BMP sections.

### Best Management Practices: Urban

#### Pollution Contributors

- \_\_\_\_\_ 1. A homeowner decides that after applying fertilizer, his grass still does not look green enough. He decides to use double the amount of fertilizer than the instructions indicate.
- \_\_\_\_\_ 2. A construction site manager decides that he does not want to spend extra money on **sediment** control. During the next big rain, sediment pollutes the nearby creek.
- \_\_\_\_\_ 3. A hilly area in a neighborhood has no trees or shrubs and is **eroded**.
- \_\_\_\_\_ 4. A stream in a local park is surrounded by a large grassy area that is frequently fertilized, and also visited by people who do not pick up after their dogs.
- \_\_\_\_\_ 5. A homeowner notices that after a rainstorm, large amounts of water flow off of his roof onto his driveway and into the street, where the water goes down a storm drain.

#### Best Management Practices

- A Plant trees on steep hills to prevent **runoff**.
- B. Reduce the amount of fertilizer used by following the instructions on the bag, and only apply fertilizer where it is needed.
- C Create a **riparian forest buffer** to protect streams and rivers from receiving excess nutrients.
- D. Use a **rain barrel** or **rain garden** to capture runoff from the roof.
- E. Apply sediment control practices on construction sites.



## Match It Up (con't)

### Best Management Practices: Rural

#### Pollution Contributors

- \_\_\_\_\_ 1. Cows wander into a stream in their pasture, and their waste pollutes the water.
- \_\_\_\_\_ 2. A farmer fertilizes his fields the day before a big rain storm is forecast.
- \_\_\_\_\_ 3. On a poultry farm, waste is leaking out from the holding basin and is **leaching** into the **groundwater** supply.
- \_\_\_\_\_ 4. A farmer notices that a dirt road on his land is beginning to degrade. It has large gullies where water erodes the road after a rainfall, and sediment is flowing from the road into a nearby stream.
- \_\_\_\_\_ 5. A farmer extends his field almost all the way to a stream, leaving nothing but a grassy patch between the field and the stream.

#### Best Management Practices

- A. Properly collect, store, and dispose of waste from a poultry farm.
- B. Apply fertilizers when it is not supposed to be rainy or windy.
- C. Create a riparian forest buffer between agricultural fields and nearby streams.
- D. To keep livestock out of a stream running through a pasture, construct a fence around the stream.
- E. Stabilize dirt and gravel roads near streams to prevent erosion.