

Pollution Solution Instructions

Pollution Solutions is found on Pages 8&9 of the Discover the Waters of TN book. Our job is to find the right “pollution solution” for each activity on the illustration to reduce the nonpoint source pollution.

There are 12 pollution solutions labeled A-L. You may have the students point to the activity that needs that solution. Or you can use place holders like paper cut outs of A-L. The answer guide is on the last page of the book.

Another way you can do this activity is by creating bingo cards of the vocabulary terms you would like the students to answer. You can search for bingo card generators and customize your own! I found several free bingo card generators where you can download the PDF.

Directions: Read the definition and students determine the correct term. If the term was on your card, you were able to cover that spot (Lima beans, buttons, ...) Since most of the cards are unique, folks BINGOed at different times – total card coverage.

VOCABULARY Prompts

Means different, another, other, second choice

Alternative

Means to share the ride with more than one person in a vehicle **Carpool**

A solid surface that does not allow water to sink or go through the surface, the water will run off an

Impermeable surface

Trash that is not inside a trash barrel. It is a form of pollution. **Litter**

The fecal matter from animals and is considered a form of pollution. **Manure**

IT can be water or air pollution that comes from many sources. There is not one single spot or cause.

Nonpoint source pollution

IT allows water to sink into the soil rather than run off

Permeable surface

Pollution for air and water that comes from one identifiable source – something that can be pointed to or identified. **Point source pollution**

Substances that contaminate air, water, or soil.

Something introduced into the environment that affects the usefulness of a resource. **Pollutants**

A shared means of transportation available for the general public such as buses, trains, boats. **Public transportation**

Solid or liquid forms of water such as rain, snow, sleet or hail that falls to the ground from clouds.

Precipitation

A large container that is used to capture and hold water running off a roof. **Rain barrel**

A sunken area that has been planted with water loving plants. It is designed to hold this water and let it sink into the ground. It usually captures water runoff from impervious surfaces, such as roofs, driveways, sidewalks, or parking lots. **Rain garden**

A method of treating individual household waste. Each house has a very large tank that holds sewage while the liquid is slowly filtered into the ground. Opposite of Cities using wastewater treatment plants to take care of all the sewage from the many sources of sewage in a city. **Septic sewage treatment**

Very small sand or clay particles that are carried by water in streams and rivers. It is considered a form of pollution. **Silt**

Sheets of sturdy paper or plastic that are used to trace letters onto objects. **Stencils**

Water that is running off the surface of the land during a large precipitation event. The more impervious surfaces, the more the runoff, and is caused by storms. It is usually NOT treated before entering a water body such as a local stream or lake. **Stormwater**

Pollution Solution Bingo

nonpoint source pollution	public transportation	rain garden
silt	septic sewage treatment	pollutants
precipitation	alternative	stormwater

Pollution Solution Bingo

stencil	alternative	litter
septic sewage treatment	manure	nonpoint source pollution
impermeable surface	point source pollution	precipitation

Pollution Solution Bingo

carpool	silt	manure
public transportation	septic sewage treatment	impermeable surface
Alternative	rain barrel	stencil

Pollution Solution Bingo

alternative	public transportation	impermeable surface
nonpoint source pollution	litter	pollutants
point source pollution	rain barrel	silt

Pollution Solution Bingo

public transportation	pollutants	silt
stencil	litter	point source pollution
impermeable surface	rain garden	septic sewage treatment

Pollution Solution Bingo

stormwater	litter	impermeable surface
silt	alternative	rain barrel
nonpoint source pollution	carpool	pollutants

Pollution Solution Bingo

nonpoint source pollution	manure	public transportation
rain barrel	rain garden	point source pollution
alternative	impermeable surface	precipitation

Pollution Solution Bingo

pollutants	manure	nonpoint source pollution
impermeable surface	silt	public transportation
litter	rain garden	precipitation

Pollution Solution Bingo

rain barrel	pollutants	stencil
silt	alternative	point source pollution
litter	public transportation	nonpoint source pollution

Pollution Solution Bingo

carpool	public transportation	Rain garden
precipitation	litter	pollutants
point source pollution	rain barrel	silt

Pollution Solution Bingo

manure	pollutants	Stormwater
stencil	Nonpoint source pollution	point source pollution
impermeable surface	rain garden	septic sewage treatment

Pollution Solution Bingo

stormwater	litter	impermeable surface
Rain garden	Public transportation	rain barrel
silt	carpool	pollutants

Pollution Solution Bingo

nonpoint source pollution	public transportation	rain garden
silt	manure	pollutants
precipitation	Impermeable surface	stormwater

Pollution Solution Bingo

stencil	alternative	litter
septic sewage treatment	silt	nonpoint source pollution
impermeable surface	Rain garden	precipitation

Pollution Solution Bingo

carpool	silt	pollutants
public transportation	litter	impermeable surface
Alternative	rain barrel	stencil

Pollution Solution Bingo

Rain garden	public transportation	impermeable surface
nonpoint source pollution	litter	pollutants
point source pollution	rain barrel	precipitation

Pollution Solution Bingo

public transportation	pollutants	silt
Public transportation	litter	point source pollution
impermeable surface	rain garden	precipitation

Pollution Solution Bingo

stormwater	Rain garden	impermeable surface
silt	alternative	rain barrel
Point source pollution	carpool	pollutants

Pollution Solution Bingo

nonpoint source pollution	manure	public transportation
silt	rain garden	point source pollution
alternative	impermeable surface	litter

Pollution Solution Bingo

pollutants	manure	nonpoint source pollution
impermeable surface	silt	carpool
alternative	rain garden	precipitation

Pollution Solution Bingo

rain barrel	pollutants	stencil
manure	alternative	point source pollution
litter	public transportation	Impermeable surface

Pollution Solution Bingo

carpool	public transportation	Rain garden
Impermeable surface	litter	pollutants
point source pollution	rain barrel	stencil

Pollution Solution Bingo

manure	pollutants	Stormwater
stencil	carpool	point source pollution
Public transportation	rain garden	septic sewage treatment

Pollution Solution Bingo

stormwater	litter	Septic sewage treatment
Rain garden	Public transportation	rain barrel
silt	carpool	Stencil