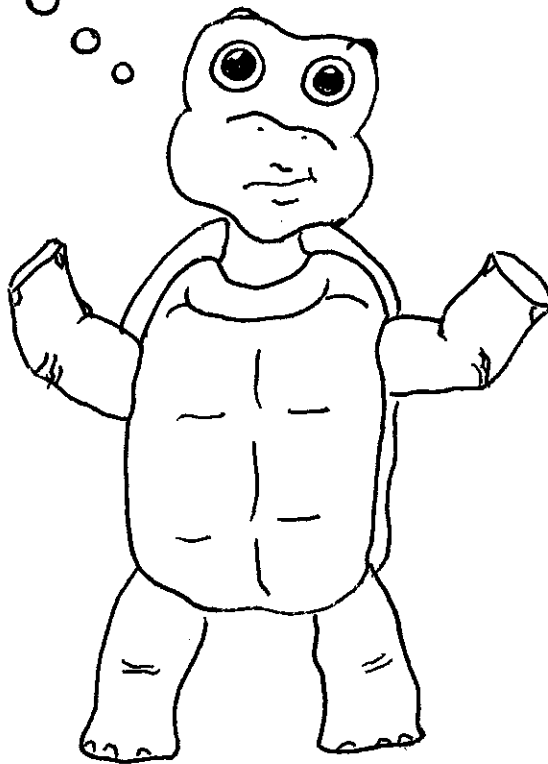


# STORMWATER

## THE BOOK



**WHERE DOES ALL THE  
WATER GO?**



**Whenever it rains or snows, water runs off the land and into our storm drain system. The storm drain system is made up of gutters, ditches, storm drains (the holes in the curb along the street) and pipes. Water that runs off the land is called stormwater. The storm drain system carries stormwater to our local waterways. Water that flows into the storm drain system never passes through a water treatment plant, so anything the stormwater picks up, or is placed in it along the way, will be carried to the nearest waterway, **UNTREATED.****

# WHO LIVES IN A WATERSHED?

A watershed is the land that water flows over or under on its way to a stream river, lake or ocean. Water runs to the lowest point in the watershed (downhill).

At the bottom of the page list the animals in this picture that live in the watershed.



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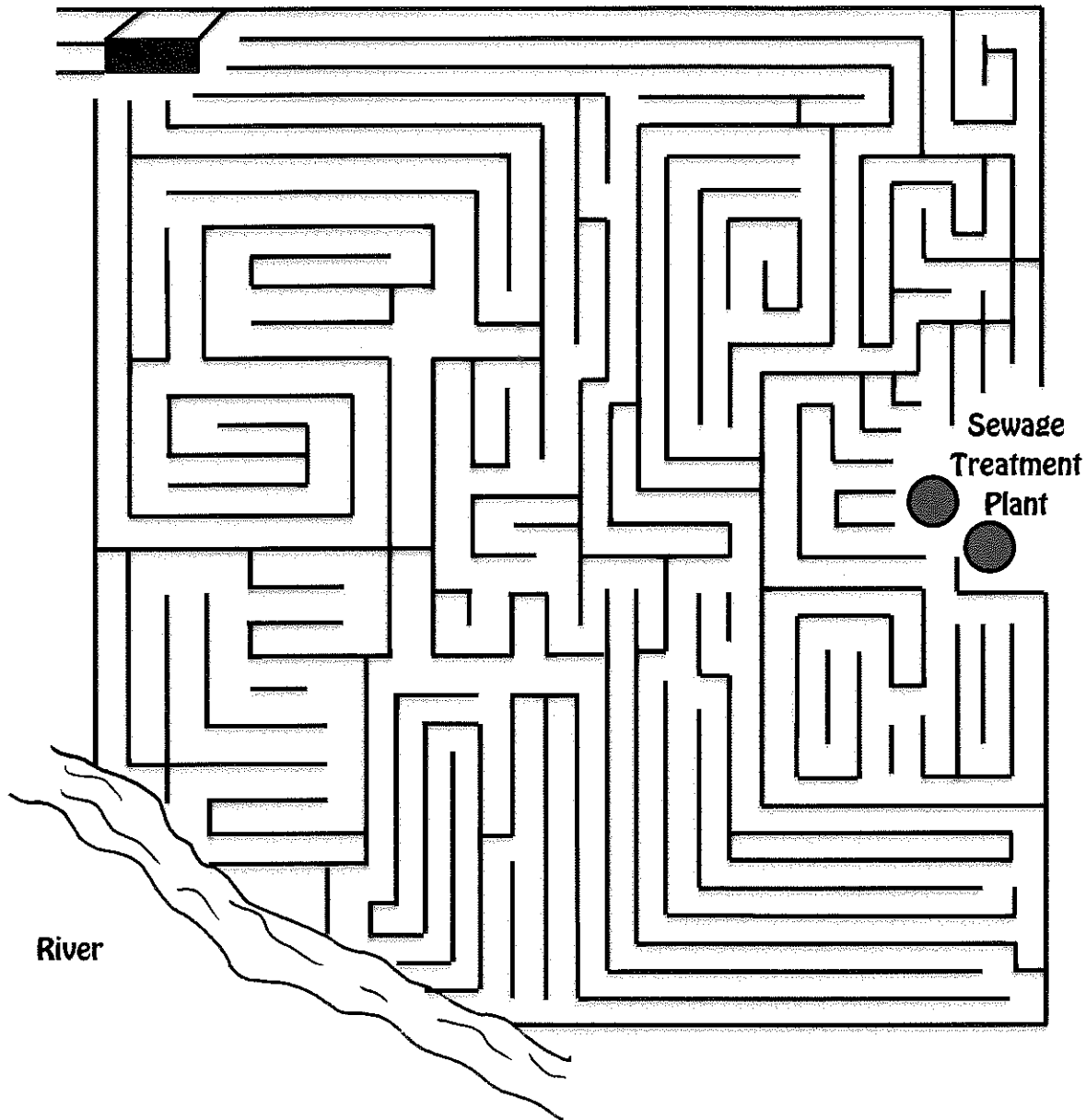
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# THE A-MAZING STORMWATER STORY

Everyone knows that water flows; but, who knows where the water goes?

Follow the stormwater down the gutter and through the storm water system to find out where it ends up.



Does the stormwater entering the drain go to the sewage treatment plant or to the river? \_\_\_\_\_

## STORMWATER POLLUTION

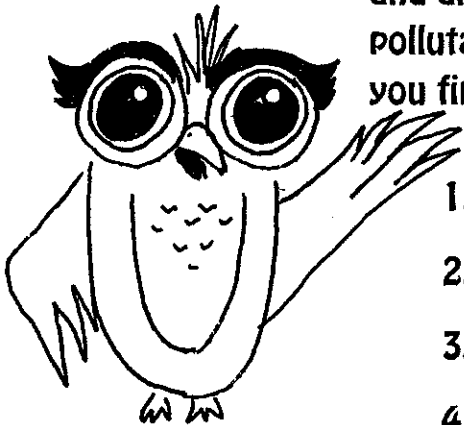
Untreated water in the storm drain system can carry pollutants to nearby waterways. Things put on the ground can be washed into our storm drains by the rain, washing our cars or overwatering our yards and fields. When carried by stormwater, pollutants, such as motor oil, antifreeze, fertilizers and pesticides on our lawn and gardens; pet waste, paint, trash and soap can end up in the waterways making the animals that live there very sick. Even soil and leaves can be pollutants—they clog storm drains and choke up waterways. Sometimes, people who don't know that stormwater isn't treated dump or purposely wash pollutants directly into the storm drains. Of course, you, Sheldon and Owlivia know where all these pollutants go.



## FIND THE POLLUTANTS

S	P	A	I	N	T	N	O	I	S	H	S	E
U	N	F	L	S	H	K	I	E	W	E	S	R
Y	E	T	S	G	O	M	D	V	D	A	L	E
P	D	C	I	S	E	I	O	I	J	E	P	Z
E	I	D	Q	U	O	P	C	O	U	Z	A	I
T	P	Z	B	I	R	I	N	X	C	E	Q	L
W	O	A	T	D	T	I	L	E	R	E	S	I
A	E	R	W	S	R	S	T	M	O	R	C	T
S	M	S	E	V	A	E	L	T	R	F	L	R
T	S	P	A	K	S	J	F	L	O	I	D	E
E	O	T	O	S	H	E	L	S	F	T	X	F
R	Z	N	F	A	D	V	P	E	O	N	T	C
A	V	I	N	J	Y	L	E	W	C	A	K	I
L	M	O	T	O	R	O	I	L	K	U	P	S

Owllivia has found many pollutants in the stream where she fishes. All of these pollutants were carried to the stream in the stormwater and are mentioned on page four. Can you find the stormwater pollutants in the box above? Some words may be backwards. When you find them, write the words in the space provided.



- |          |           |
|----------|-----------|
| 1. _____ | 6. _____  |
| 2. _____ | 7. _____  |
| 3. _____ | 8. _____  |
| 4. _____ | 9. _____  |
| 5. _____ | 10. _____ |

# FROM YOUR HOME TO OURS



Pollution in our neighborhood can travel to local streams and rivers through the storm drain system. Below is a list of steps in this polluting process, but the steps are out of order. Write out the steps on the lines provided in the order that they would normally occur, with number one being the first step and number five being the last step.



The storm drain carries the polluted stormwater to the stream.



Paint and other pollutants are left outside.



Fish and other animals that live in the stream get sick and might die.



Rain water washes over pollutants and carries them into the street.



Polluted rain water flows down the street and into the storm drain.



1. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

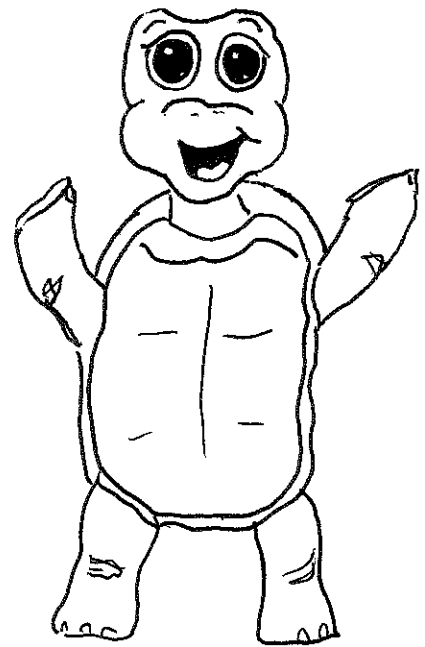
3. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# WATER POLLUTION AFFECTS...

Unscramble the words below to find out who is harmed by water pollution



HIFS \_\_\_\_\_

SRBDI \_\_\_\_\_

LEEPOP \_\_\_\_\_

USKDC \_\_\_\_\_

GOFRS \_\_\_\_\_

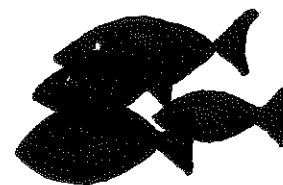
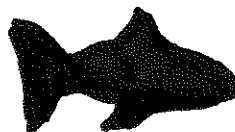
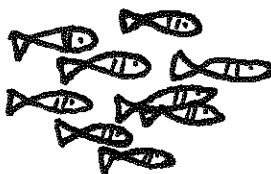
LMNAISA \_\_\_\_\_

OUY \_\_\_\_\_

NLTAPS \_\_\_\_\_

GUSB \_\_\_\_\_

YREUNOEE \_\_\_\_\_



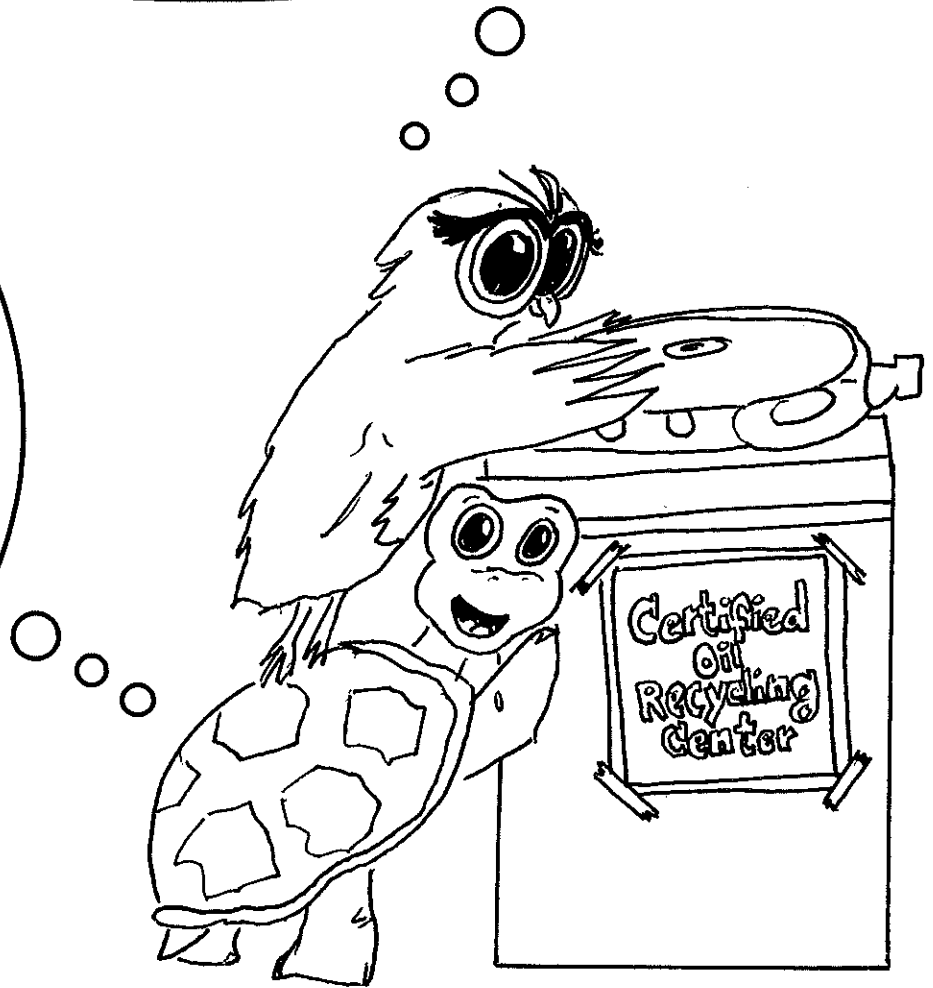


## HELPING TO KEEP STORM DRAINS CLEAN

There are lots of ways you can help prevent stormwater pollution and keep your water (and our home) clean. You can help by:

- 1) Placing litter in trash cans and recycling materials, such as aluminum, paper, and plastic bottles;
- 2) picking up pet waste and putting it in the trash;
- 3) washing the family car in an area that doesn't flow straight to the street like your lawn or at a car wash;
- 4) watering the lawn for shorter periods of time and only when it needs it and
- 5) rake or sweep up grass, leaves and twigs from your yard, instead of hosing it away or using a leaf blower. The plant material you collect can be used to make compost.

Your parents can help too! Let them know that paint, antifreeze, oil and chemical cleaners need to be taken to a household hazardous waste collection facility. Also, ask them to repair any leaks their car might have and to recycle used motor oil and filters.



## LEND A HELPING HAND

To help prevent stormwater pollution Owlivia puts recyclables in the recycle bin and litter in the trash can.

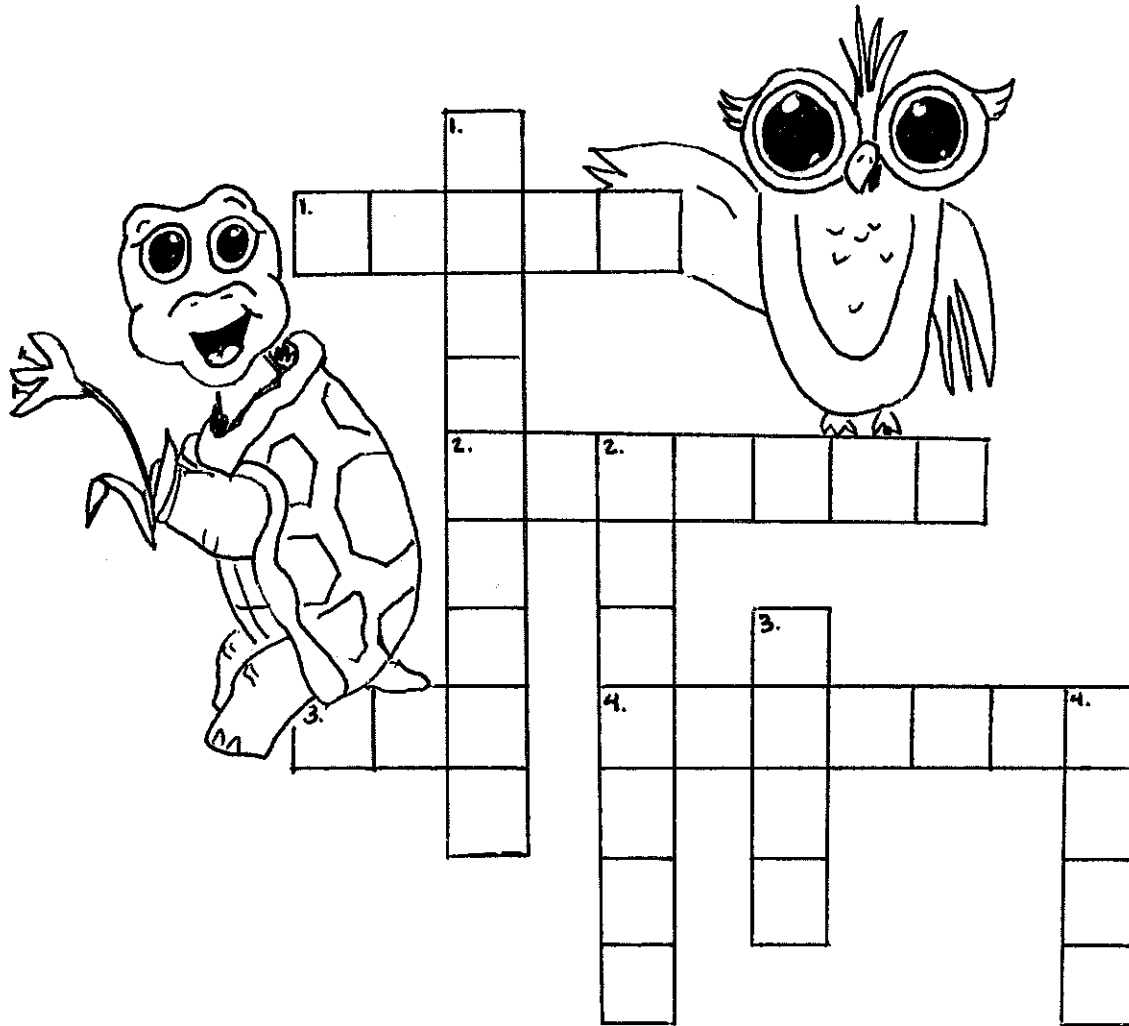
Write the correct words from the recycle bin in the blanks to find out what else you can do to prevent pollution.



1. \_\_\_\_\_ the driveway instead of hosing debris into the street.
2. \_\_\_\_\_ pet waste and put it in the trash. Don't leave it on the ground.
3. \_\_\_\_\_ run off, water the lawn for shorter periods of time and only when needed.
4. Ask your parents to \_\_\_\_\_ used motor oil.
5. \_\_\_\_\_ the car on the lawn or at the car wash so soap, dirt and oil don't end up in the storm drain.
6. \_\_\_\_\_ by composting yard debris, such as grass clippings, leaves and twigs; and using the compost in your garden.
7. \_\_\_\_\_ your parents that left over paint and antifreeze need to be taken to a household hazardous waste collection facility.

# CLEAN WATER CROSSWORD

Decide what words belong in the boxes by reading the clues.



## Down

1. Left over paint, antifreeze, and household cleaners are \_\_\_\_\_ wastes and should be taken to a collection facility.
2. You make it out of yard clippings.
3. Where, at home, you can wash the car without soap, dirt and oil flowing to the storm drain.
4. Leaves and soil can \_\_\_\_\_ the storm drain system and cause water back-ups.

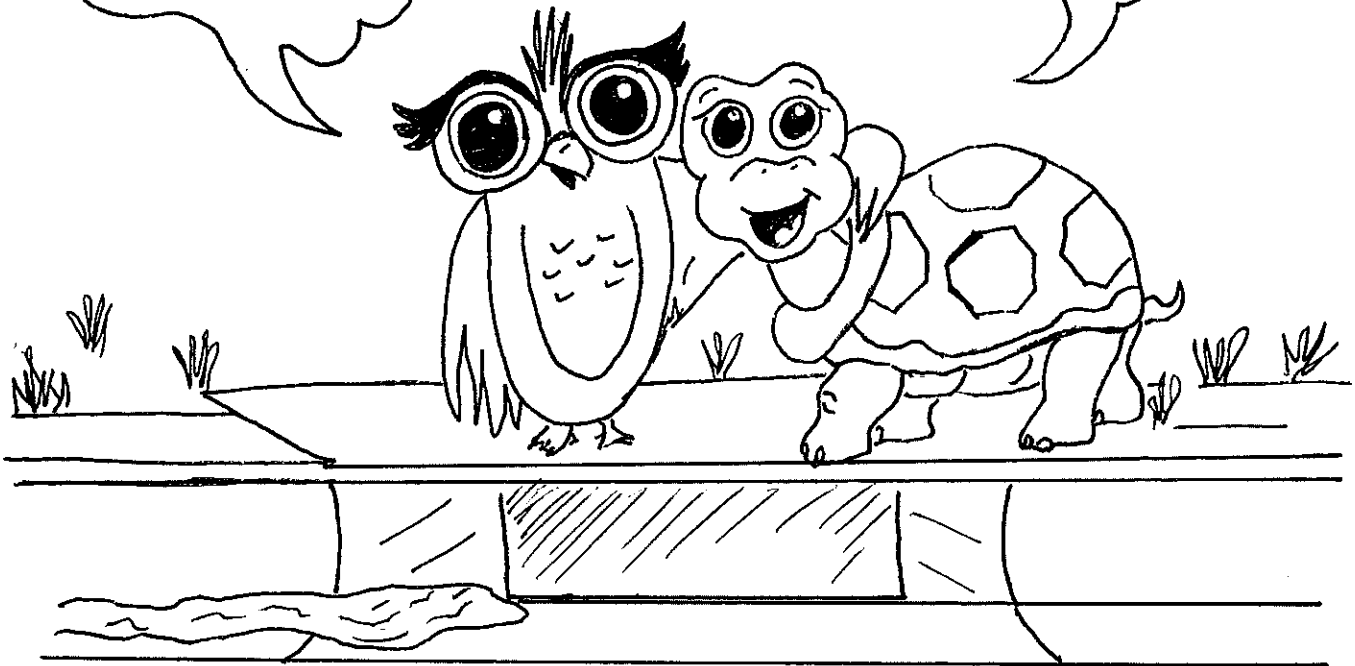
## Across

1. The place litter and pet waste belongs.
2. What you should do with used motor oil and filters.
3. Who can help prevent stormwater pollution?
4. You can recycle \_\_\_\_\_ bottles.

**WITH YOUR HELP, WE CAN  
KEEP STORM DRAINS CLEAN  
FOR THOSE  
DOWNSTREAM**

**HOOT**  
For more  
information on stormwater  
go to  
[www.shelbyval.com](http://www.shelbyval.com)

For the answers  
To the activities  
Look below.



**Page 2**

Everyone lives in a watershed so you should have listed all the animals and people.

**Page 3**

The stormwater goes straight to the river, it does not go to the water treatment plant to be cleaned.

**Page 5**

S	P	A	I	N	T	N	O	I	S	H	S	E
V	N	F	L	S	H	K	I	E	W	E	S	R
Y	E	T	S	G	O	M	D	U	D	A	L	E
P	D	C	I	S	E	I	O	I	J	E	P	Z
E	I	D	Q	U	O	P	C	O	U	Z	A	I
T	P	Z	B	I	R	I	N	X	C	E	Q	L
W	O	A	T	D	T	I	L	E	R	E	S	I
A	E	R	W	S	R	S	T	M	O	R	C	T
S	M	S	E	V	A	E	L	T	R	F	L	R
T	S	P	A	K	S	J	F	L	O	I	D	E
E	O	T	O	S	H	E	L	S	F	T	X	F
R	Z	N	F	A	D	U	P	E	O	N	T	C
A	V	I	N	J	Y	L	E	W	C	A	K	I
L	M	O	T	O	R	O	I	L	K	U	P	S

- PAINT
- PETWASTE
- PESTICIDES
- SOIL
- TRASH
- LEAVES
- MOTOROIL
- SOAP
- ANTIFREEZE
- FERTILIZER

**Page 6**

1) Paint and other pollutants are left outside. 2) Rain water washes over the pollutants and carries them in to the street. 3) Polluted rain water flows down into the street and into the storm drain. 4) the storm drain carries the polluted stormwater to the stream. 5) fish and other animals that live in the stream get sick and might die.

**Page 7**

Fish, Birds, Ducks, Frogs, Animals, you, plants, bugs, everyone

**Page 9**

1) Sweep, 2) Pick-up 3) Prevent  
4) Recycle 5) Wash 6) Reduce Waste  
7) Tell

**Page 10**

Across: 1) Trash 2) Recycle 3) You  
4) Plastic

Down: 1) Hazardous 2) Compost  
3) Lawn 4) Clog