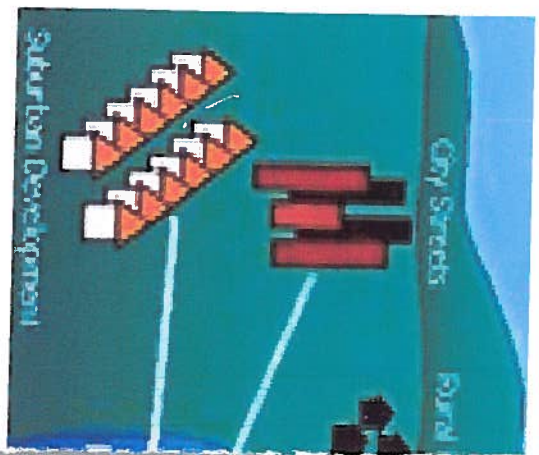
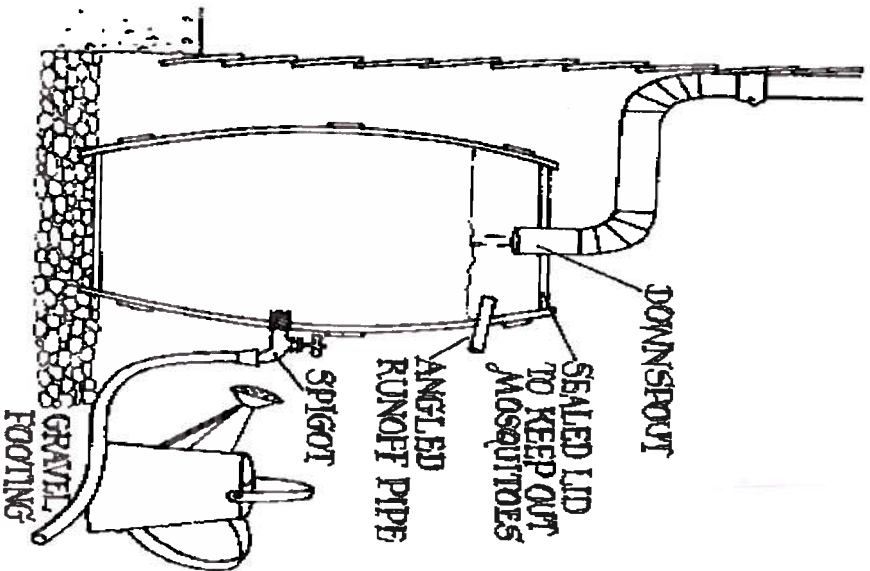




What rain barrels can do for you!

Joshua Crenshaw
and
Chris Scholz

Rain Barrel



Runoff

Runoff is water that washes over impermeable surfaces and carries pollutants into storm water drains and eventually into bodies of water like the Chesapeake Bay.

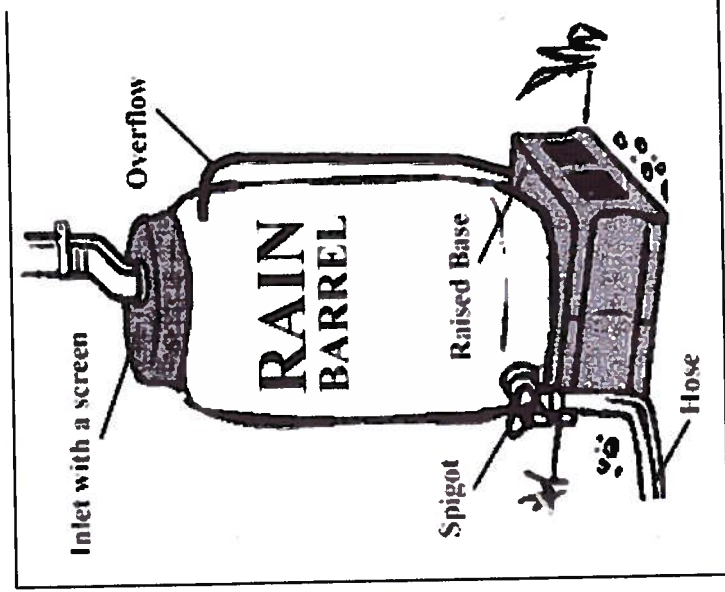
This causes the bodies of water to become filled with sediment, trash and chemicals which have very bad effects on the wildlife.

One of the biggest problems caused by pollutants entering the water is algal blooms.

Algae blooms absorb excess nutrients and then they start to grow into huge masses. Then these plants die and are eaten by plankton, the plankton then die and are decomposed by bacteria that use the dissolved oxygen in the water. Eventually there is not enough oxygen to sustain life and nothing can live there anymore creating a dead zone.

Helping Out

Rain barrels can help lower the amount of pollution that goes into our waterways. A rain barrel is used to catch the water coming from our gutters which eventually flow into storm drains. If people took the time to make one or if someone did it for a school project they would help fix the bigger pollution problem that we and many countries are having.



Service Project: Water Conservation

Group Members: Chris Scholz, Josh Crenshaw, Bob.

Proposal/ Argument:

Introduction (summary and importance of project) **1 paragraph**

Describe problem (large and small scale/ qualitative and quantitative) and why it is so important for the community to address it. **1-2 paragraphs**

Baseline or evidence you can collect as further support (can you collect any data around the school to establish a baseline, can you interview anyone, tally a number, collect data?) **1 paragraph**

Short Description of project Plan (what is it and why will it address the problem?) **1 paragraph**

Write an Action Plan:

- step-by-step plan of what needs to be done and how you will do it
- include obtaining permission and support
- start and end dates
- budget and fundraising plan

Materials and equipment needed:

- how will you get materials
- transport materials
- do you need additional tools or training?



Name: Joshua Greenshaw

Date: 2/12/13

3rd Quarter Community Service Project Plan ---Qualitative---

Problem: Water is a limited resource so we have to be careful about how we use it.

Identify the problem that you wish to address in your community (County, City and/ or state). Use a variety of resources, including academic, to support your problem with general information. Please make sure to draw upon concepts that have been discussed in class. Remember, your job is to persuade others to support your project.

Current Environmental Problem	Sources of Evidence (websites, conversations, government data etc.)
<p>Only 1% of drinkable water exists on the earth.</p> <p>Fresh water is refreshed by precipitation or melting glaciers.</p> <p>Human's fresh water supply is threatened by chemicals and other pollutants.</p> <p>People need to take action to make sure fresh water is around for future generations.</p> <p>showers, toilets, clothes washers, and leaks account for 78.9 percent of domestic water use. If we use water saving products and change how we use water then a person can drastically reduce their water bill.</p>	<p>www.wikianswers.com</p> <p>EZ in articles.com</p>

Project/ Solution:

Our project is a rain barrel that can be used to reduce the amount of water used in the garden.

Project/ it's effectiveness/ possible impact	Sources of Evidence (websites, conversations, government data etc.)
<p>Rain barrel project</p> <p>A rain barrel stops runoff that would normally go into waterways by catching rainwater.</p> <hr/> <p>Like I said before it stops runoff, holds rain water which is better for the garden, allows for less water to be used on the garden and it will save the school some money.</p>	<p>CBF</p>

Name: Joshua Crenshaw

Date: 7/12/13

3rd Quarter Community Service Project Plan

Problem:

control the amount of runoff
from the school into the bay by making
a rain barrel.

Identify the problem that you wish to address in your community (County, City and/ or state). This is the base line information that you wish to

You may do the follow to gather information, but **examples** must include **quantifiable** information so you can revisit and see your impact at the end of the project.

- brainstorm in groups
- review your possible examples we've discussed
- research online

Current Environmental Problem 1	Sources of Evidence (websites, conversations, government data, observations, etc.)
<p>In an average rain storm more than 700 gallons of water runoff the roof of a typical home. The runoff goes into a storm drain carrying pollutants into water ways. The average family of four uses 400 gallons of water every day. A rain barrel holds rainwater which is better for plants than tap water. Also you could save money</p>	<p>MICBF 19013 www.epa.gov</p>

on water that would be used on your garden or lawn with a rain barrel.

Examples of quantifiable:

- Currently, our school has 50 point of trash every day an no recycling
- Currently, the incidence of children at homeless shelter with a Vitamin D deficiency is 50%
- Currently, 90% of students at our school think that bullying is a big problem
- Currently, 2 senior citizens in the local independent living center know how to use email



Rain Barrel Project Description:

Our project is about water conservation. We have decided on two projects the first one is a rain barrel for the school. The other is getting special faucet heads that reduce the amount of water used when the faucet is turned on by adding air to the stream. Our projects can address water conservation because the rain barrel can hold rain water that would normally cause runoff to go into water ways and allows us to use the captured water on the school's garden. While the faucet heads conserve water inside the school by reducing the amount that is normally used.



Joshua Crenshaw

Environmental Science

3/4/13

We need to talk to Mrs. Child and find out exactly what she wants us to do with the GIS technology. We need to make sure we have the right pictures. We need to figure out where the water flows. I need to ask her if we are doing all the down spouts in the front. Also we need to find out how we are going to make the money necessary for all the rain barrels and sinks.





Joshua Crenshaw

Chris Shultz

Environmental Science

3/7/13

Baseline

Observations/ pictures: There are four downspouts on the left and three on the right. Currently the water is going and lying against the building. It is wearing down the foundation of the building. Also the drain on the left is completely clogged up so the water doesn't have anywhere to go. We need bring this to the attention of Mr. Lightfoot.

Also we plan to continue with the rain barrel project, but we just won't put them on all the downspouts because only one is useable for a rain barrel. We just to make the money necessary for it.





