

# 5<sup>th</sup> & 6<sup>th</sup> Grade Survey Results: Overall Summary

## **Total Number of Students:**

- 116 students took the PRE and POST surveys

## **Schools that Participated:**

- Amerman Elementary
- Birmingham Covington School
- Steppingstone School

## **Total Number of Boys:**

- 52

## **Total Number of Girls:**

- 64

## **Grades that Participated:**

- 5<sup>th</sup>- 89
- 6<sup>th</sup>-27

## **New vs. Returning Schools:**

- first-time participants: 89
- returning participants: 27

## **Question #1: What is a river?**

- Answered correctly on PRE-survey: 97%
- Answered correctly on POST-survey: 99% **Increase**

## **Question #2: What do we do to examine the health of the river?**

- Answered correctly on PRE-survey: 83%
- Answered correctly on POST-survey: 97% **Increase**

## **Question #3: Which of the following would indicate a healthy river?**

- Answered correctly on PRE-survey: 96%
- Answered correctly on POST-survey: 98% **Increase**

**Question #4: How do you feel about science?**

- Answered “Love It” on PRE-survey: 27%
- Answered “Love It” on POST-survey: 26% **Decrease**
  
- Answered “Like It” on PRE-survey: 48%
- Answered “Like It” on POST-survey: 56% **Increase**
  
- Answered “Neither Like nor Dislike” on PRE-survey: 25%
- Answered “Neither Like nor Dislike” on POST-survey: 18% **Decrease**
  
- Answered “Dislike It” on PRE-survey: 0%
- Answered “Dislike It” on POST-survey: 0% **No Change**
  
- Answered “Hate It” on PRE-survey: 0%
- Answered “Hate It” on POST-survey: 0% **No Change**

**Question #5: How do you expect you will feel about participating in this Rouge River project?**

- Answered “Very Excited” on PRE-survey: 41%
- Answered “Very Excited” on POST-survey: 53% **Increase**
  
- Answered “Excited” on PRE-survey: 34%
- Answered “Excited” on POST-survey: 39% **Increase**
  
- Answered “OK” on PRE-survey: 9%
- Answered “OK” on POST-survey: 15% **Increase**
  
- Answered “Not So Excited” on PRE-survey: 3%
- Answered “Not So Excited” on POST-survey: 3% **No Change**
  
- Answered “Definitely Not Excited” on PRE-survey: 1%
- Answered “Definitely Not Excited” on POST-survey: 2% **Increase**

**Quotes from 5<sup>th</sup>/6<sup>th</sup> Grade Students:**

**On why it’s important to keep the river healthy and what they will do to improve the health:**

- “It is important to keep the Rouge River in healthy condition because then you are supplying a habitat and not polluting. I will be a Fried of the Rouge by helping clean it up, doing tests, and not littering”— 5<sup>th</sup> Grade Student From Amerman Elementary, Northville
- “It is important to keep the Rouge River healthy because many animals live in it and if those animals die from dirty water, the bigger animals that eat them will starve, and the whole food chain will destroy! I will pick up any trash lying around and I will test the DO in the water.”-Birmingham Covington School, Bloomfield Hills
- “It is important because it is a big waterway in Michigan. I will participate in the Rouge Education Project to keep the river healthy”—6<sup>th</sup> Grade Student from Steppingstone School, Farmington Hills

**On what did you enjoy/not enjoy about the Rouge Education Project:**

- “I enjoyed taking samples of the water and sorting through the bugs and I really enjoyed catching bugs with the net in the waders”—Student from Amerman Elementary, Northville
- “I enjoy doing the project because it is doing something good for the river. It is also very fun getting on the waders and going in the water”—Student from Birmingham Covington School, Bloomfield Hills

## **7<sup>th</sup> Grade Survey Results: Overall Summary**

1 student from Steppingstone School took part in the 7<sup>th</sup> grade pre/post surveys. She had participated in it before and had 100% on all questions, before and after. She also likes science and feels OK with the REP.

### **On why it's important to keep the river healthy and what they will do to improve the health:**

- "I will try to keep soap and things out of the river. It is important because it goes to drinking water and the great lakes, which are a symbol of Michigan."

### **On what did you enjoy/not enjoy about the Rouge Education Project:**

- "I enjoyed doing the chemical tests"

# 8<sup>th</sup> -12<sup>th</sup> Grade Survey Results: Overall Summary

## Total Number of Students:

- 138 students took the PRE and POST surveys

## Schools that Participated:

- Crestwood High School
- Oakland Schools Technical Campus-Southeast
- Steppingstone School
- Troy High School

## Total Number of Boys:

- 72

## Total Number of Girls:

- 66

## Grades that Participated:

- 8<sup>th</sup>-5
- 9<sup>th</sup>-0
- 10<sup>th</sup>-35
- 11<sup>th</sup>-48
- 12<sup>th</sup>-50

## New vs. Returning Schools:

- first-time participants: 130
- returning participants: 8

## Question #1: What is a watershed?

- Answered correctly on PRE-survey: 83%
- Answered correctly on POST-survey: 93% **Increase**

## Question #2: What do we do to determine the health of the river?

- Answered correctly on PRE-survey: 25%
- Answered correctly on POST-survey: 39% **Increase**

## Question #3: Which of the following would indicate a healthy river?

- Answered correctly on PRE-survey: 66%
- Answered correctly on POST-survey: 84% **Increase**

## Question #4: The following pH will indicate an UNHEALTHY river?

- Answered correctly on PRE-survey: 82%
- Answered correctly on POST-survey: 86% **Increase**

**Question #5: How do you feel about science?**

- Answered “Love It” on PRE-survey: 23%
- Answered “Love It” on POST-survey: 26% **Increase**
  
- Answered “Like It” on PRE-survey: 53%
- Answered “Like It” on POST-survey: 53% **No Change**
  
- Answered “Neither Like nor Dislike” on PRE-survey: 20%
- Answered “Neither Like nor Dislike” on POST-survey: 17% **Decrease**
  
- Answered “Dislike It” on PRE-survey: 4%
- Answered “Dislike It” on POST-survey: 4% **No Change**
  
- Answered “Hate It” on PRE-survey: 0%
- Answered “Hate It” on POST-survey: 0% **No Change**

**Question #6: How did you feel about participating in this Rouge River Project?**

- Answered “Very Excited” on PRE-survey: 17%
- Answered “Very Excited” on POST-survey: 16% **Decrease**
  
- Answered “Excited” on PRE-survey: 48%
- Answered “Excited” on POST-survey: 48% **No Change**
  
- Answered “OK” on PRE-survey: 34%
- Answered “OK” on POST-survey: 34% **No Change**
  
- Answered “Not So Excited” on PRE-survey: 1%
- Answered “Not So Excited” on POST-survey: 2% **Increase**
  
- Answered “Definitely Not Excited” on PRE-survey: 0%
- Answered “Definitely Not Excited” on POST-survey: 0% **No Change**

**Quotes from 8<sup>th</sup>- 12<sup>th</sup> Grade Students:**

**On why it’s important to keep the river healthy and what they will do to improve the health:**

- “Freshwater is a limited resource in the world. Because of this it is important to keep it healthy. Also the river provides a habitat for many organisms. In order to keep it health, I will reduce fertilizers use, causing less of it to run off into the water” –Senior at Troy High School, Troy
- The Rouge is an integral part of our ecosystem because of the biodiversity that the river fosters in a suburban environment. To help it, I won’t litter or deliberately dirty it with my actions, and I will help test water quality in my AP Environmental Science Class.—Senior at Troy High School, Troy

**On what did you enjoy/not enjoy about the Rouge Education Project:**

- “I enjoyed all the chem. tests, all the random liquids, and testing is fun to do.”—8<sup>th</sup> Grade Student at Steppingstone School, Farmington Hills
- “I enjoyed doing something hands-on”—10<sup>th</sup> Grade Students at Crestwood High School, Dearborn

# University of Michigan-Dearborn Students Survey Summary:

## Total Number of Students:

- 19 students took the PRE and POST surveys

## Total Number of Males:

- 1

## Total Number of Females:

- 18

## New vs. Returning Schools:

- first-time participants: 19

## Question #1: What is a watershed?

- Answered correctly on PRE-survey: 89%
- Answered correctly on POST-survey: 84%

**Decrease**

## Question #2: What do we do to determine the health of the river?

- Answered correctly on PRE-survey: 53%
- Answered correctly on POST-survey: 53%

**No Change**

## Question #3: Which of the following would indicate a healthy river?

- Answered correctly on PRE-survey: 21%
- Answered correctly on POST-survey: 53%

**Increase**

## Question #4: The following pH will indicate an UNHEALTHY river?

- Answered correctly on PRE-survey: 89%
- Answered correctly on POST-survey: 100%

**Increase**

**Question #5: How do you feel about science?**

- Answered “Love It” on PRE-survey: 26%
- Answered “Love It” on POST-survey: 11% **Decrease**
  
- Answered “Like It” on PRE-survey: 53%
- Answered “Like It” on POST-survey: 52% **Decrease**
  
- Answered “Neither Like nor Dislike” on PRE-survey: 21%
- Answered “Neither Like nor Dislike” on POST-survey: 11% **Decrease**
  
- Answered “Dislike It” on PRE-survey: 5%
- Answered “Dislike It” on POST-survey: 16% **Increase**
  
- Answered “Hate It” on PRE-survey: 5%
- Answered “Hate It” on POST-survey: 0% **Decrease**

**Question #6: How did you feel about participating in this Rouge River Project?**

- Answered “Very Excited” on PRE-survey: 11%
- Answered “Very Excited” on POST-survey: 11% **No Change**
  
- Answered “Excited” on PRE-survey: 42%
- Answered “Excited” on POST-survey: 53% **Increase**
  
- Answered “OK” on PRE-survey: 42%
- Answered “OK” on POST-survey: 36% **Decrease**
  
- Answered “Not So Excited” on PRE-survey: 5%
- Answered “Not So Excited” on POST-survey: 0% **Decrease**
  
- Answered “Definitely Not Excited” on PRE-survey: 0%
- Answered “Definitely Not Excited” on POST-survey: 0% **No Change**

**Quotes from College Students:**

**On why it’s important to keep the river healthy and what they will do to improve the health:**

- “It has many tributaries that flow into it. It flows into the Detroit River which flows into other rivers & lakes. To keep it healthy I would not dump toxic chemicals into the sewers”
- “Because we use the river for multiple purposes, important to our daily activities. I would not pollute the river with material and/or species that don’t belong”

**On what did you enjoy/not enjoy about the Rouge Education Project:**

- “I enjoy the outdoors...Being outside & learning hands on was a wonderful change”
- “Learning about the pH and testing the water. Finding Animals! Learning about the watershed and how it affects us!”