

# **Protecting Dearborn's Water and Air**

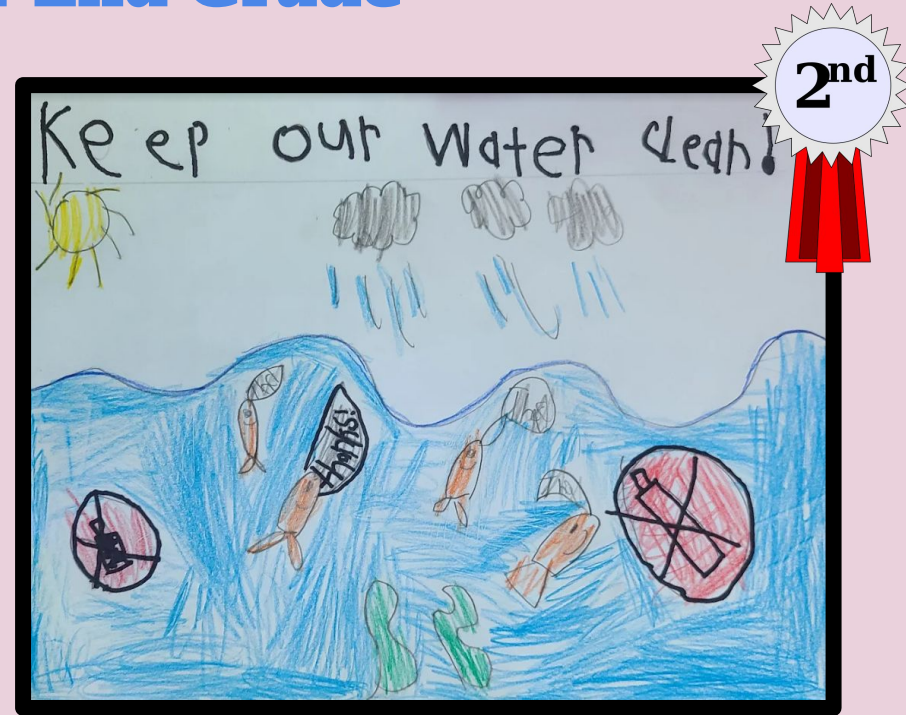
**Poster Contest Winners  
May 2022**

Thank you to all the students who participated and the staff who helped them submit their wonderful work.

# Kindergarten-2nd Grade



**Algaida Selan (2nd Grade)**  
**Maples Elementary**



**Mohammed Sharian (Kindergarten)**  
**Oakman Elementary**

# Kindergarten-2nd Grade



**Julia Hammoud (1st Grade)**  
**Lindbergh Elementary**



**Isabel Thormann (2nd Grade)**  
**Haigh Elementary**



# 3rd-5th Grade

1<sup>st</sup>



**Adam Qawasmi**  
**(5th Grade)**  
**Oakman**

2<sup>nd</sup>



**Eleen Baydoun (3rd Grade)**  
**Howard**

## 3rd-5th Grade



3<sup>rd</sup>

**Razan Hennawi**  
**(4th Grade)**  
**Geer Park**



Honorable  
Mention

**Aseel Aljabali**  
**(5th Grade)**  
**Geer Park**

# 3rd-5th Grade



**Mohamed Majrad (5th Grade)**  
**Lowrey**



# 6th-8th Grade

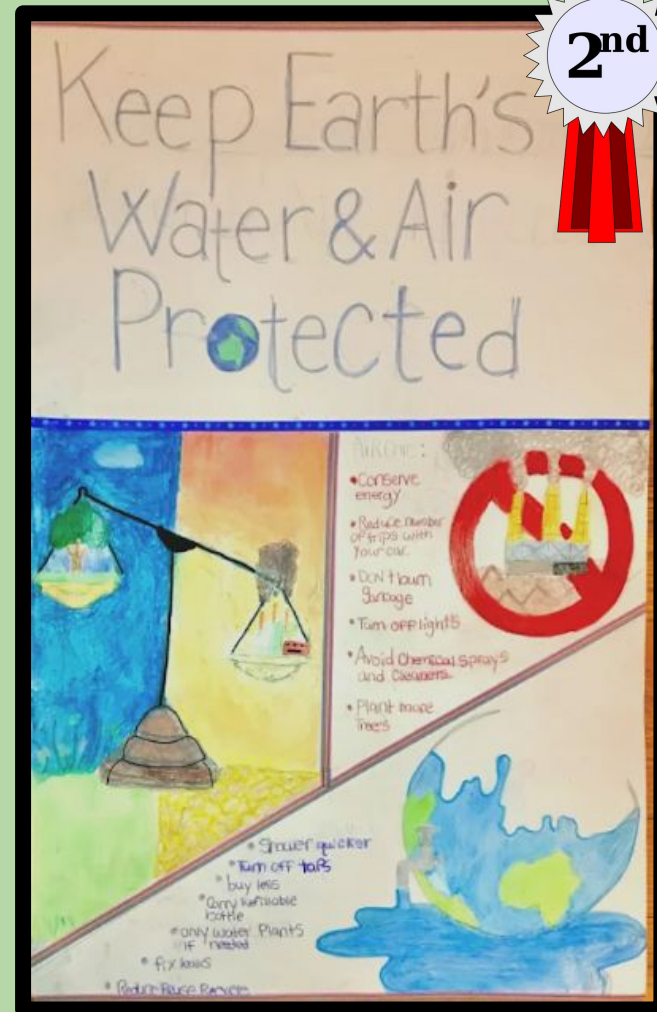
**Caroline Bazzi  
(7th Grade)  
Dearborn Virtual**

**1<sup>st</sup>**



**Priya Parasar  
(8th Grade)  
Dearborn Virtual**

**2<sup>nd</sup>**





# Preserve Earth's Air & Water

By: Julia  
Bazzi

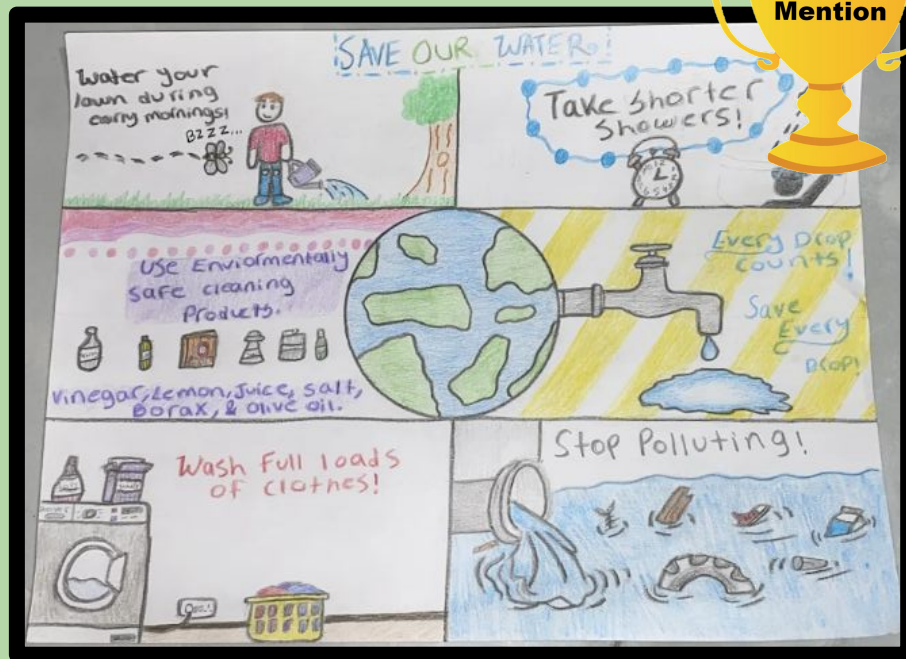
**Julia Bazzi  
(5th Grade)  
Dearborn Virtual**

**3rd**



## 6th-8th Grade

**Honorable  
Mention**

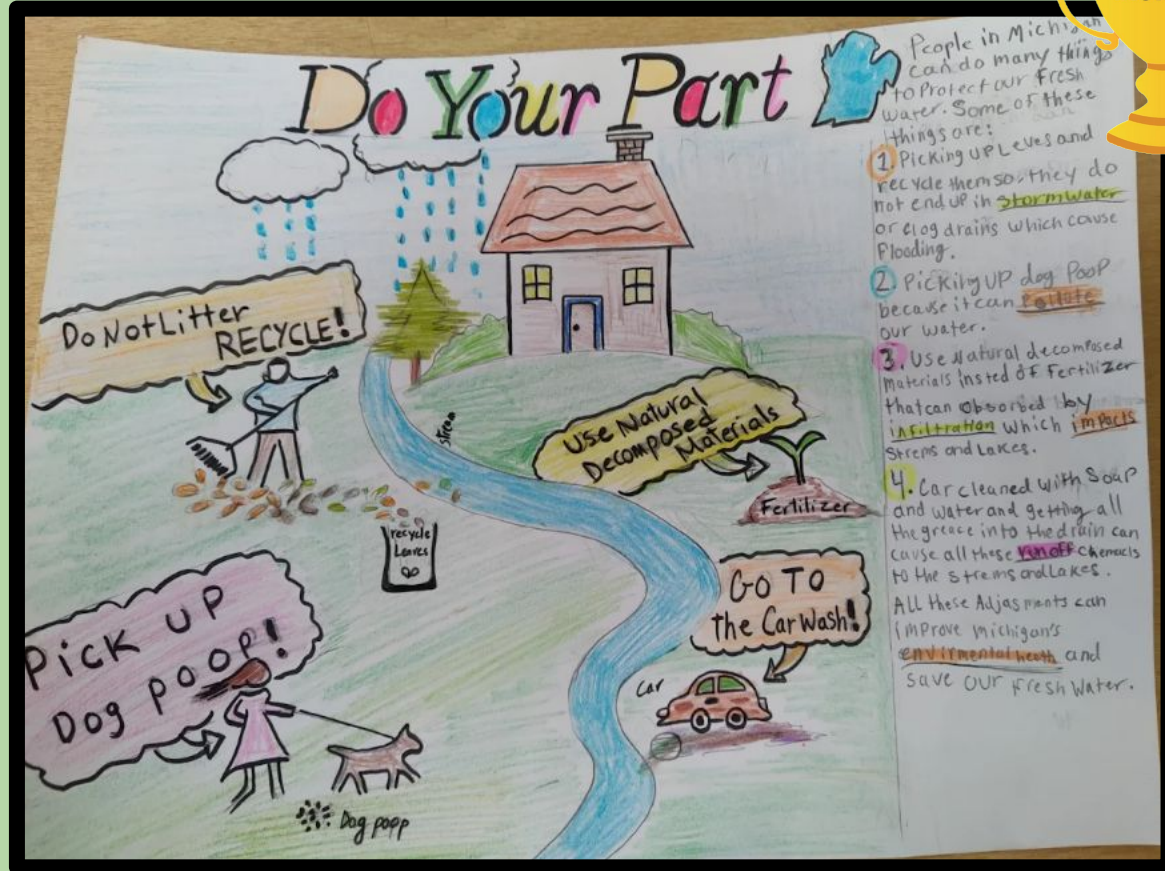


**Afrah Jabar  
(8th Grade)  
Dearborn Virtual**

# 6th-8th Grade



**Sereen Fardous  
(6th Grade)  
Bryant**



# 9th-12th Grade

**Abrar Yahya  
(9th Grade)  
Dearborn Virtual**

## Save the Great Lakes of our State!!



"Just because it  
disappears, doesn't  
mean it goes away"

~Ted Puzio



Limit your  
water use.  
(Ex: take  
shorter  
showers)

Use  
phosphate  
free  
detergents  
and soaps.

Don't flush  
paper goods in  
the toilet.  
(Ex: Dispose  
paper goods in  
the trash.)

Recycle to  
prevent  
water  
contamination.

Avoid  
pesticides  
while  
gardening.

Use less  
plastic.  
(Ex: Use a  
reusable  
water bottle.)



2<sup>nd</sup>

## DEARBORN WATER CONTEST

### HOW CAN WE FIX THIS?

Our solution to helping the excess stormwater in dearborn, michigan is to create rain-beds. rain-beds are ditches in the ground that collect rainwater. they are full of flowers, so instead of the rainwater flowing slowly into basements, it will flow into the beds to water the flowers. People who are vulnerable to flooding can also invest in a rain barrel to collect the rain water in their backyard.



rain barrel

### WHAT'S THE ISSUE?

In the past 8 years, Dearborn has flooded 4 times. All the floods have been 4 inches and higher. Flooding has been a problem in Dearborn for about 8 years now. Dearborn has flooded on July 7, 2013- 4.5 inches, August 11, 2014- 6 inches, April 25, 2019- 4 inches and June 26, 2021- 8 inches.

rain-bed



MADISON  
DIEBOLT

ALA KAID

# 9th-12th Grade

**Madison Diebolt/ Ala Kaid**  
**(9th Grade)**  
**DCMST**



# 9th-12th Grade

Jehan Bazzi

3<sup>rd</sup>

## Protect Dearborn's Water and Air!



How You can help!

- Pick up any garbage you see!
- Dispose materials properly!
- Instead of a car ride a bike!
- Get your city together to clean up your area!
- Recycle used items!
- Reduce water!



**Jehan Bazzi**  
**(10th Grade)**  
**Fordson**

# 9th-12th Grade

## Dearborn's Flood Water

Honorable  
Mention

### Problem

As shown on the graph over the past few years, Dearborn has been facing a problem with increased amounts of rain which leads to flooding. Flooding causes a slew of issues, including loss of life, property damage, crop destruction, and livestock loss. According to recent reports, rain flood water damaged roughly 40% of Dearborn's homes and businesses and shut down 75% of its roads. This may not seem like a lot, but for families barely getting through, putting another load of problems/expenses on their back is sorrowful. The most critical issue that must be solved to stop the floods are Dearborn's sewers. Dearborn's sewers can only handle 3 inches of rain in 24-hour periods, and usually, when there are floods it is because there are about 5-7 inches of rain which is almost double what the sewers can handle.

### Solution

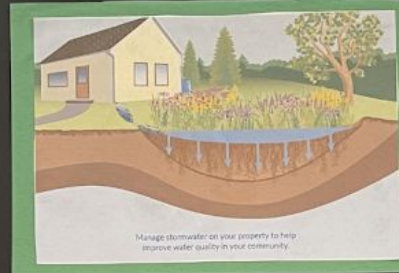
The first thing Dearborn has to do is fix their sewers so that they can handle at least 10 inches of rain. This solution will be very helpful to the flooding problem and save us thousands in damages that God forbid will happen in future floods. Another solution to the Dearborn flooding problem is simple and inexpensive all we have to do is put a rain garden every three houses. With most rain garden flowers ranging from \$4 to \$12 even if the government funds all of the costs of making the rain gardens it would not be that expensive, comparing it to all of the funds that the government will have to give out to all of the people with half of their properties damaged from the floods. Furthermore, rain gardens are effective because they soak in more than 30% water. With these solutions, Dearborn residents will not have to further worry about future floods and all the damages that come alongside them.

### Benefits of Rain Gardens

- No mowing is needed.
- Water conservation.
- Pollinator-friendly.
- Groundwater recharge.
- Biodiversity and wildlife.
- No fertilizer, herbicide, or pesticide is required.
- Water pollution protection.
- Inexpensive

### Typical Rain Garden Flower Prices

- Black-eyed Susan (*Rudbeckia fulgida*) \$8.79 ea.
- Swamp milkweed (*Asclepias incarnata*) \$3.99 ea.
- Swamp mallow (*Hibiscus moscheutos*) \$9.99 ea.
- Joe Pye weed (*Eupatorium*) \$6.99 ea.
- Sedges (*Carex*) \$11.95 ea.
- Bluesair (*Amsonia*) \$6.99 ea.
- Turtlehead (*Chelone*) \$11.95 ea.



**Shayda Alzayadi**  
**(9th Grade)**  
**DCMST**