

What is the REP?

A place-based environmental education program centered around water quality monitoring of the Rouge River, whose watershed is the most urbanized in Michigan.

The Rouge Education Project trains teachers in the way of volunteer water quality monitoring and provides resources and equipment, and they, in turn, take the information they've learned back to their classrooms. Students see the root cause of environmental issues in their local waterway, and begin to think about bigger picture/Great Lakes issues and implications. They are then encouraged to think about and take action to benefit the river.

Mission: To promote awareness and stewardship of the Rouge River watershed through school-based water quality monitoring, investigation, and problem solving.

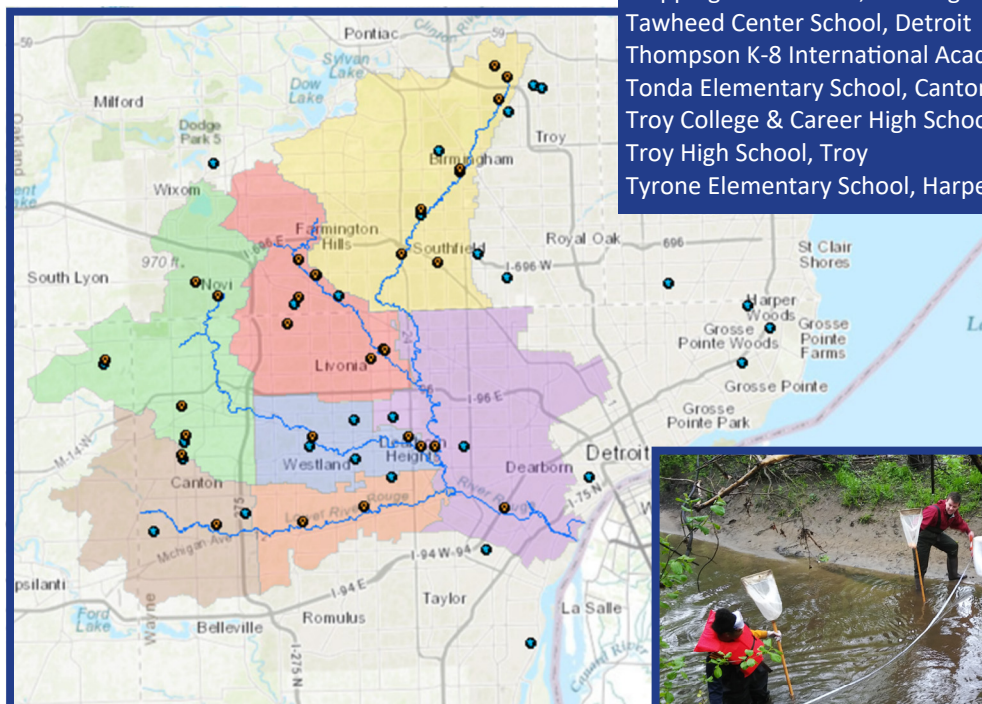
28 schools
65 teachers

1,698 students
27 sampling sites

2017 marked the 30th year of the REP.

2017 SPRING MONITORING SCHOOLS

Achieve Charter Academy, Canton
Birmingham Covington School, Bloomfield Hills
Chandler Park Academy High School, Harper Woods
Clippert Multicultural Honors Academy, Detroit
Crescent Academy High School, Oak Park
Crescent Academy International, Canton
Crestwood High School, Dearborn Heights
Detroit Country Day Middle School, Beverly Hills
Emerson Middle School, Livonia
Garden City High School, Garden City
Huron Valley Lutheran High School, Westland
Inter-City Baptist High School, Allen Park
Lincoln Senior High School, Warren
Mary Helen Guest Elementary School, Walled Lake
Pierce Middle School, Redford
Plymouth High School, Canton
Power Middle School, Farmington Hills
Ronald Brown Academy, Detroit
Roosevelt High School, Wyandotte
Salem Elementary School, Salem
Smith Middle School, Troy
Steppingstone School, Farmington Hills
Tawheed Center School, Detroit
Thompson K-8 International Academy, Southfield
Tonda Elementary School, Canton
Troy College & Career High School
Troy High School, Troy
Tyrone Elementary School, Harper Woods



Map of the 2017 spring monitoring schools (blue/black points) and sampling sites (black/orange points). Solid black lines outline Rouge River subwatersheds.



Students from Crescent Academy High School and volunteers measure stream width at Lawrence Technological University's campus in Southfield

2017 Workshops

Workshop	Date	Location	# teachers	# volunteers	Average Workshop Rating
Returning Teacher Refresher Course	01/25/2017	Dearborn	7	N/A	9.8/10
Advanced Chemical Training	03/11/2017	Beverly Hills	4	11	9.1/10
Bug Identification & Sampling Techniques	03/25/2017	Troy	3	8	9.6/10
Bug Identification & Sampling Techniques	04/1/2017	Plymouth Twp	4	6	8.8/10
New Teacher Orientation	11/28/17	Dearborn			



2017 workshops were a great success! New and returning teachers and volunteers were given in-depth, hands-on experience learning about and conducting water quality tests.

All workshops were coordinated and facilitated by the REP Program Manager, with the exception of the Plymouth Twp Bug ID

class, which was facilitated by Sally Petrella. Thank you to the guest presenters and helpers that made these workshops possible:

- Noah Mehalski
- Sue Thompson
- Dorothy McLeer
- Dave Bydlowski
- Steve Grosinske

The REP began collaborating with the Aerokats & Rover Education Network in partnership with the Wayne Regional Educational Service Agency, NASA, and the international GLOBE program. This introduced new technology to select middle & high schools that added a meaningful layer to their water quality monitoring event.



Above (left): students use water quality monitoring probware to compare their chemical test results (right) a student gets ready to launch an "aerokat" kite equipped with weather sensors and a camera

The REP Program Manager also presented a lesson on bugs to Pierce Middle School in April, and will host the "DO Limbo" at the Rouge River Water Festival at Cranbrook in September.



Left: Rouge Rescue poster contest artwork winner, designed by Raha Zaman from Detroit Country Day Middle School