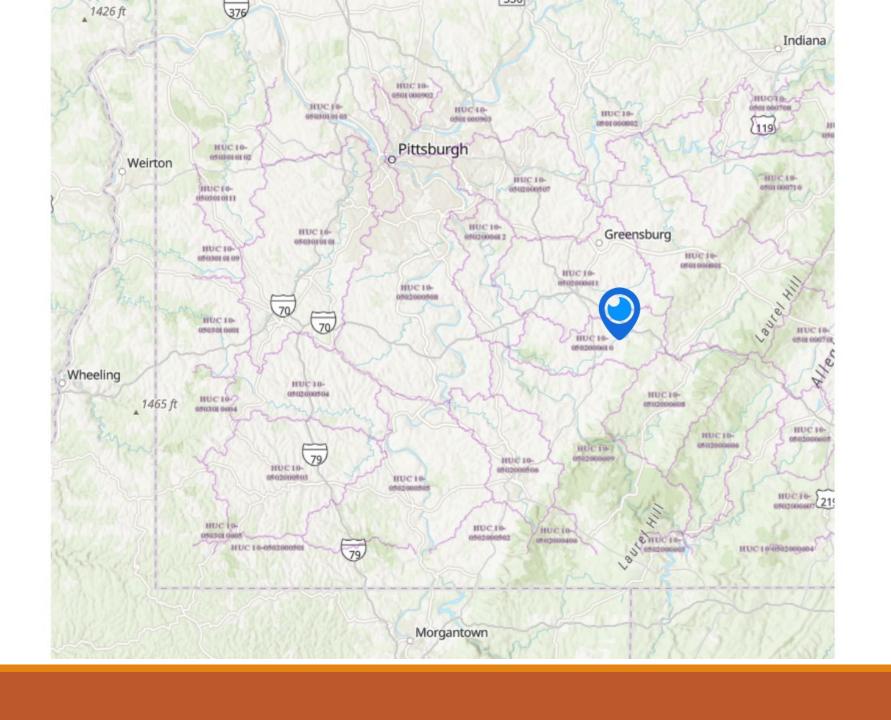
# Jacabs Creek Watershed Association



WATER QUALITY SAMPLING
3RQ VIRTUAL ROUNDTABLE SERIES

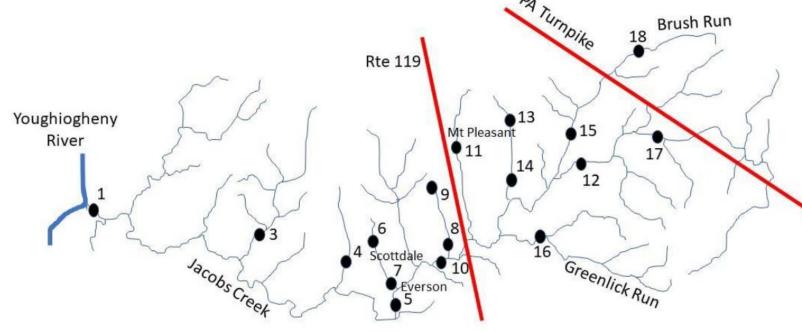
# Jacobs Creek Watershed Association

Non-profit organization dedicated to the conservation of our natural resources, rehabilitation of the creek and watershed, environmental education and recreation.



# Monthly Water Quality Sampling

- O GOAL
  - Create a record/baseline of water quality changes throughout the year
- 17 sampling sites
- Some impaired by
  - Acid Mine Drainage
  - Agriculture
  - Erosion
- Use YSI Probe for onsite data
  - o pH, temp, DO, conductivity, turbidity
- Grab Samples
  - Alkalinity, nitrates, phosphates, manganese, sulfates, aluminum, iron, TDS
- WATERs
  - Easily create data charts
  - Publicly accessible data map



# Conservation/Rehabilitation

#### Stormwater management

- Southmoreland High School
  - Rain garden
- Shop N Save Parking Lot
  - Porous pavement, rain gardens
- Cook's Way
  - Stream bank vegetation, rain gardens, porous pavement
- o Rt 31
  - Green infrastructure sidewalks
- Riparian Buffers
  - West Overton Museum, Yinzer Valley Farms

#### OAMD treatment design

West Overton Museum



#### First Acid Mine Drainage (AMD) treatment design grant awarded

Overton Village though, JCWA has moved into Abandoned mine drainage is water that is the construction phase of installing a Riparian polluted from contact with mining activity and normally associated with coal mining. It is a common form of water pollution in areas where vegetated area near a stream which helps mining took place in the past, acid mine drainage, AMD, being the most prevalent. There are over 14 known AMD discharges in our process of being removed and new native watershed, and JCWA was finally awarded a 319 arant to address 3 discharges located on UNT-3 at West Overton Village.

The awarded grant will allow JCWA to hire a consultant to design an AMD treatment system for UNT-3 which is a small tributary of Jacobs Creek. After the design is finalized, JCWA will apply for a construction grant to see that the design can be constructed which will then increase the water quality of the stream and our watershed.

That is not the only project happening at West

Buffer along UNT-3 as well. A riparian buffer is a filter out pollutants, reduces sediment and provides shade. Invasive species are in the vegetation will be planted next year.



Total stormwater managed in 2020:

30,750,300

Total acres managed by our systems:

30 or

TOTAL stormwater managed per storm (1" inch rain storm): 813,500 gallons

767,100 gallons in Scottdale 46,400 gallons in Mt. Pleasant From the Ridge to the River..

#### Other on-going projects

#### Southmoreland High School Rain Garden



This year, JCWA was awarded a grant to construct the final phase of the Southmoreland High School Green Infrastructure Design in Alverton, PA. A rain garden will be installed near the maintenance building to help reduce stormwater runoff. In previous phases, 2 porous parking lots and 1 rain garden were installed in the upper and lower parking lots of the high school.

#### Shop N Save Parking Lot



Bids were advertised to start construction of the Shop N Save Parkina Lot project in the Mount Pleasant Borough, Rain gardens will be installed to reduce stormwater runoff. An estimated 9.9 lbs. of sediment per hectare per 2.5 cm of rain for a 1 day rain event will be removed from the area after the project is completed or 396.3 lbs. per year.

#### Cook's Way



A design was drafted to install green infrastructure along Shupe Run near the Mt Pleasant Coal and Coke Trail entrance. The green infrastructure design currently includes planting native vegetation along the stream bank, installing rain gardens and expanding the parking lot with porous pavement to reduce stormwater runoff.

### Recreation

- Pop Up Paddling
  - Use our kayaks for free
- Sojourn
  - Float down Jacobs Creek
- Fishing Derby
- Clean Ups
  - Tire clean up, adopt a highway, ORSANCO, Creek Falls
- River Gauge
  - Data logger keeps track of water level of paddlers



From the Ridge to the River...

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#### Local fisherman catches 118 fish during Virtual Fishing Derby



#### Pop Up Paddling Improvements



JCWA's Pop Up Paddling fleet is also being expanded through a Pennsylvania Environmental Council grant which will allow us to purchase 1 new kayak, versa board, 2 canoes and 5 paddles. JCWA is moving full speed ahead to prepare for next year's Pop Up Paddling program. JCWA received a Revitalize Westmoreland grant to purchase a shipping container to store our paddling equipment in. The container is located at Chestnut Ridge Park, Acme PA and will be the new permanent Pop Up Paddling location. We are excited to better utilize the under appreciated and beautiful take.



## Education

- Tot Time/Nature Explorers
  - Science camp for 2-9 year old's
- In School Creek Connections
  - Water quality lab
- Build Your Own Watershed
  - Watershed diorama activity
- Scholarship
  - \$1,000 high school senior
- Bluebird Boxes
  - Build Earth Day bird boxes



From the Ridge to the River..



#### Community bids online to raise education funds

Local businesses and community members donated to JCWA's first Virtual Silent Auction to raise money for education programs. Thanks to them and everyone who made bids, we raised the money needed to support education programs throughout the watershed.

Bringing the watershed to the classroom



Top, left: Mt Pleasant Junior High students build their own watershed model. Top, right: Southmoreland High School students find Copepod in Greenlick Lake water sample. Bottom, left: Southmoreland graduate, Jacob Levendosky, was awarded JCWA's \$1,000 Education Scholarship to help him pursue a degree in BioTechnoogy. Bottom, right: JCWA Program Coordinator, Taylor Robbins, greets visitors at Yough Int. Middle School Science Fair booth.





### **Taylor Robbins**

**Program Coordinator** 

taylor@jacobscreekwatershed.org or 724-619-1654

Jacobscreekwatershed.org

Full State of the Watershed:

https://www.jacobscreekwatershed.org/state-of-the-watershed/