Connecting Students from The Hill School to the Schuylkill River











Background

- Schuylkill River Greenways
 - Non-profit located in Pottstown located right on the Schuylkill River
 - Foster community connection to the revitalized Schuylkill through education and recreation along the Schuylkill River Trail and Schuylkill River Water Trail
- The Hill School
 - A prestigious preparatory boarding high school in Pottstown, PA
 - Diverse group of students from local neighborhoods and counties, students from different states, and international students
- SRG partnership with Stroud
 - We installed our Mayfly in October 2018 to gain insight into the health of the river in order to be more informed and communicate to the public the state of the river

Fall- Winter Learning

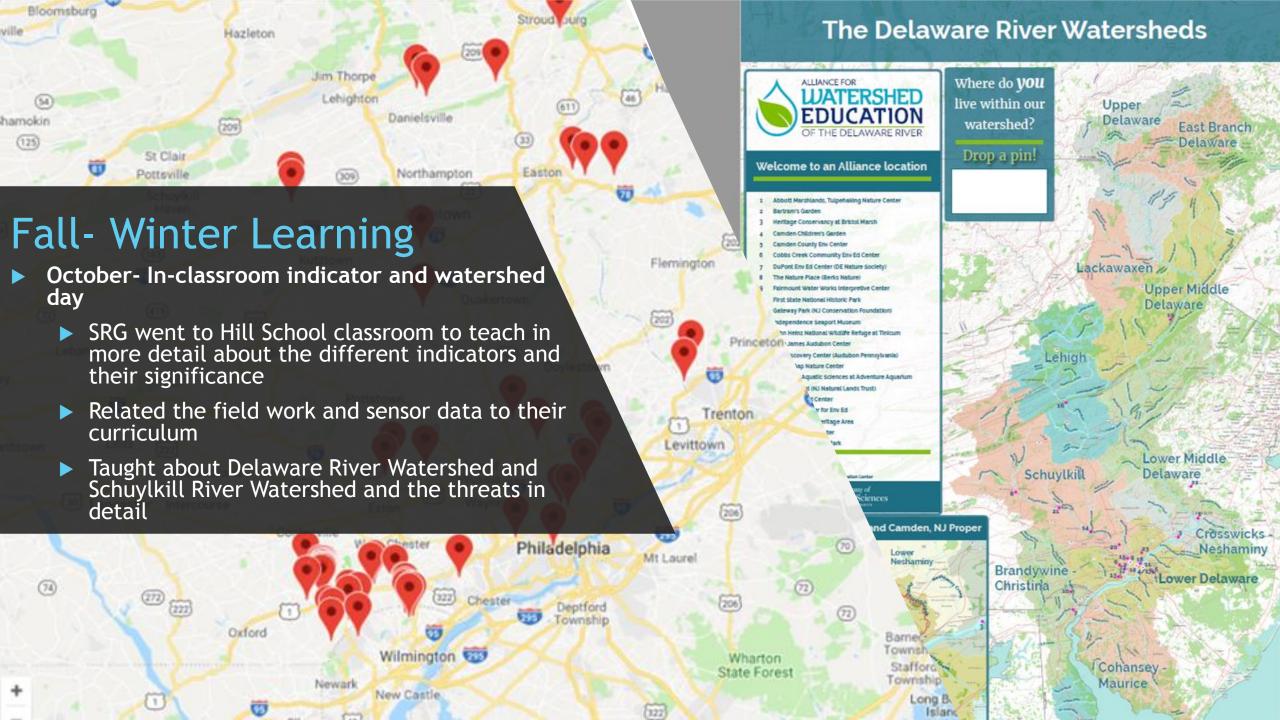
October- Installation Day

- Installed Mayfly water quality sensor with Stroud water research center CTD sensor as well as Turbidity and Dissolved Oxygen
- SRG hosted a training with Stroud to teach Hill School AP Environmental Science class about the sensor
- Completed Field Data sheet together under guidance of David Bressler











Fall- Winter Learning

- October- Sampling Day
 - Sampled Conductivity, Turbidity, Dissolved Oxygen, Temperature, pH, Nitrates, and Phosphates using probes, LaMotte testing kits, and Hanna checkers
 - Sampled for macroinvertebrates but location was not the best
- November- In classroom training with Stroud
 - Went over data that was collected in the past month and any questions they had over pizza
 - Continued to connect the experiential learning to their classroom curriculum





Spring Field Work

May- Sampling

- Sampled Conductivity, Turbidity, Dissolved Oxygen, Temperature, pH, Nitrates, and Phosphates using probes, LaMotte testing kits, and Hanna checkers for a second time and added on E.Coli testing
- Students felt more comfortable in waders and confident in their sampling abilities
- Students enjoyed addition of E.Coli testing and learned about the significance of MS4 and CSO systems, where E.coli comes from, why E.Coli can be concerning





Conclusion and Future Goals

- Students are more informed about watersheds and, in particular, the Delaware/ Schuylkill River watersheds
- They feel more connected to their local waterways, they understand the indicators and why they are important
- Greenways now has a stronger connection with the Hill School, we hope to further the partnership and create research projects with these students for more in-depth studies
- Greenways is hosting other collaborative projects with the students to engage them in other environmental activities- native plant planting