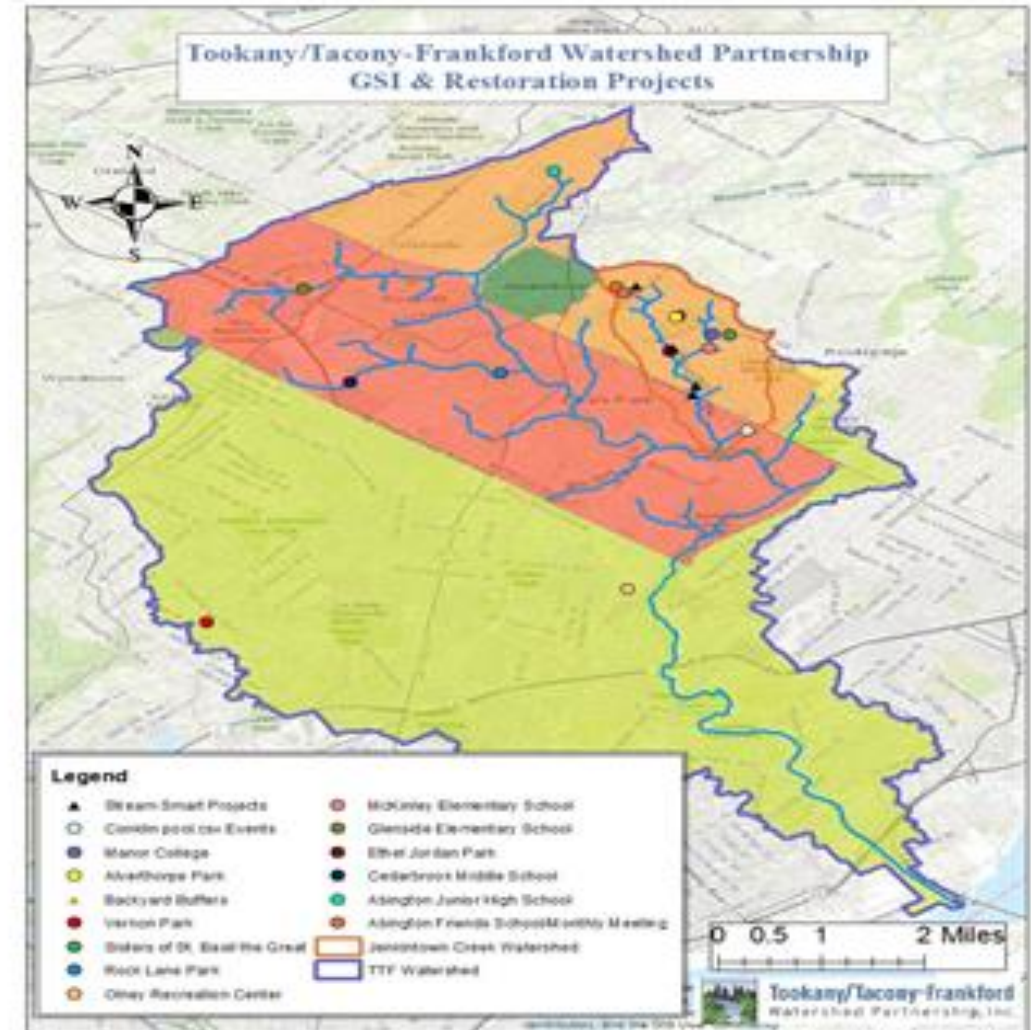


Our Watershed



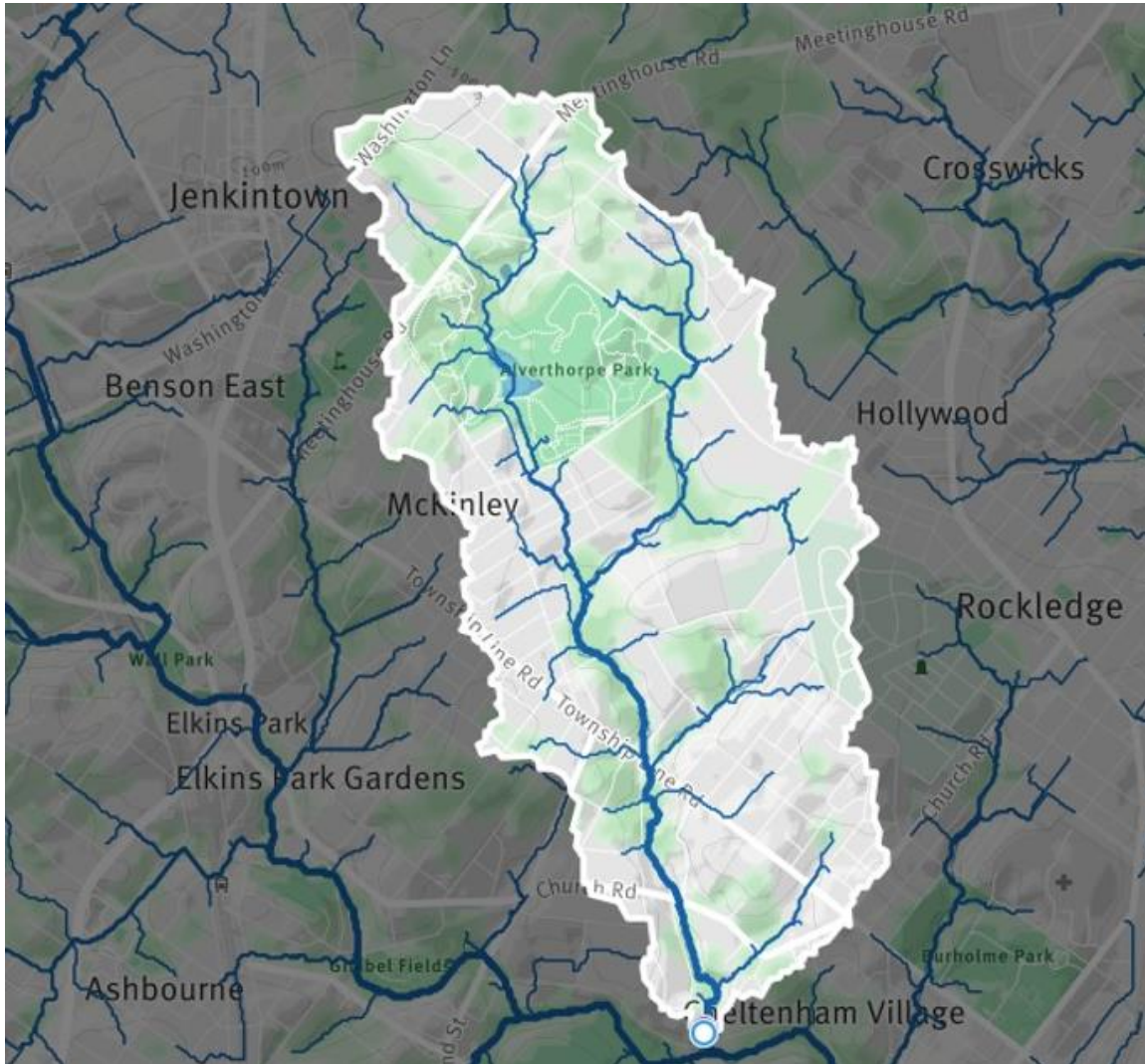
Tookany/Tacony-Frankford
Watershed Partnership, Inc.



We connect our watershed residents and community to their creeks.

Jenkintown Creek Restoration Project

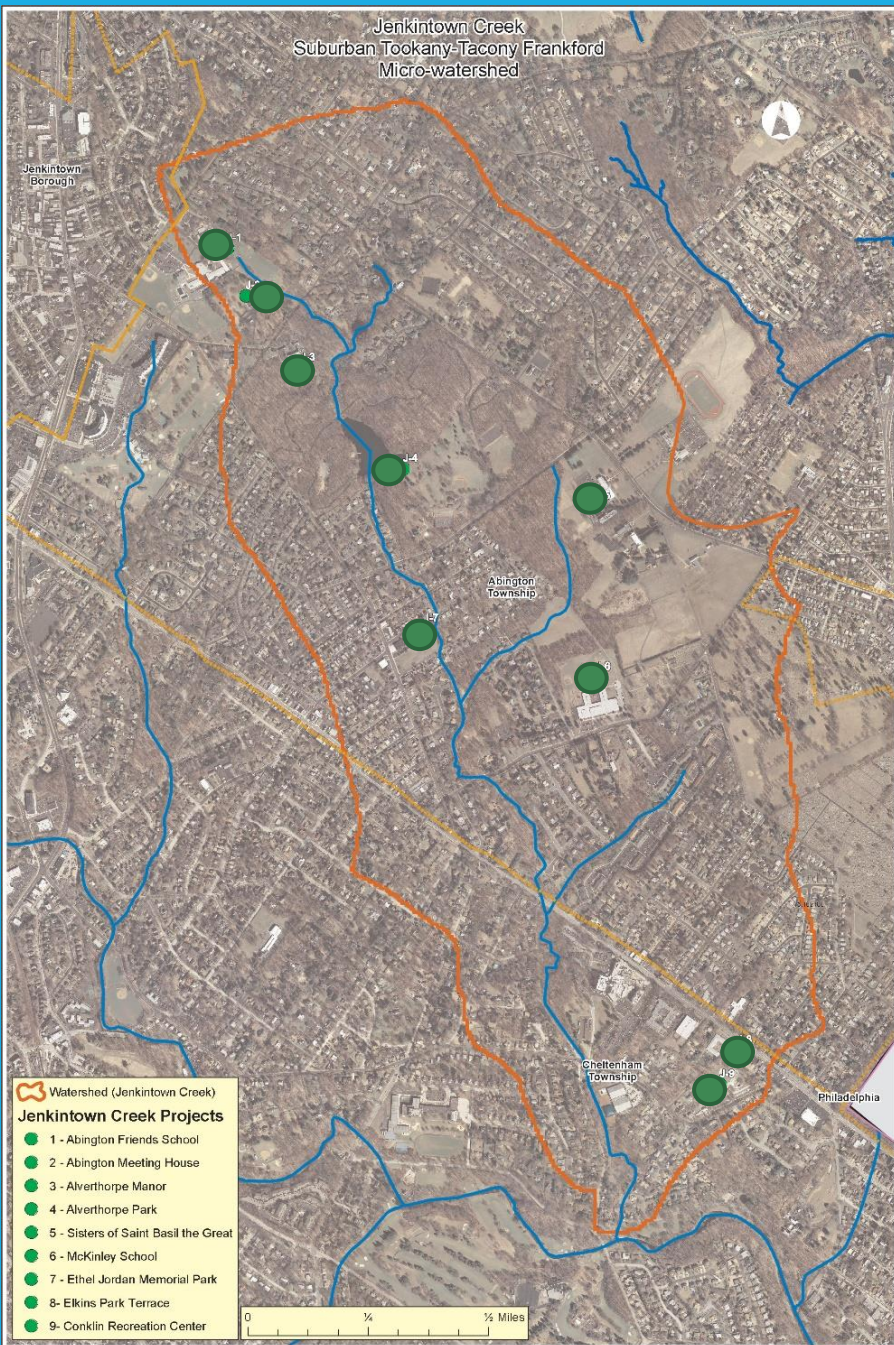
1178 acre watershed ~ 3.75 miles of streams



- Delaware River Watershed Initiative Goals
- Landowner assistance towards water quality improvement and stream restoration project
- Grant writing and administration
- Project coordination
- Post construction maintenance support



Tookany / Tacony-Frankford
Watershed Partnership, Inc.



Delaware River Watershed Initiative Funding Accomplishments – Jenkintown Creek Restoration

\$1.35 million awarded

2014 – National Fish and Wildlife Foundation grant (\$135,000) AFS and Sisters of Saint Basil Projects. Additional sources of funding included Carbon Reduction Fund (\$5,000) and TreeVitalize (\$12,000).

2015 – National Fish and Wildlife Foundation grant for McKinley Elementary School (\$46,000) and Abington Monthly Meeting (\$83,000). Additional funding from TreeVitalize (\$14,000)

2015 – TreeVitalize grant awarded for Ethel Jordan Park stream buffer (\$10,000)

2016 – National Fish and Wildlife Foundation grant awarded for stormwater control projects at Ethel Jordan (\$86,000)

2018 – Montco 2040 grant (\$100,000) and National Fish and Wildlife Foundation grant (\$50,000) awarded for Conklin Recreation Center. Department of Community and Economic Development for Alverthorpe Park (\$75,000). \$48,000 NFWF and \$16,000 TreeVitalize towards StreamSmart.

2019 – Growing Greener towards Sisters of Saint Basil (\$96,850).

2020 – TreeVitalize (\$17,918) towards planting at 4 Jenkintown Creek Buffers. Growing Greener awarded for Alverthorpe Park \$543,000. Change the Course grant \$34,000

Model My Watershed

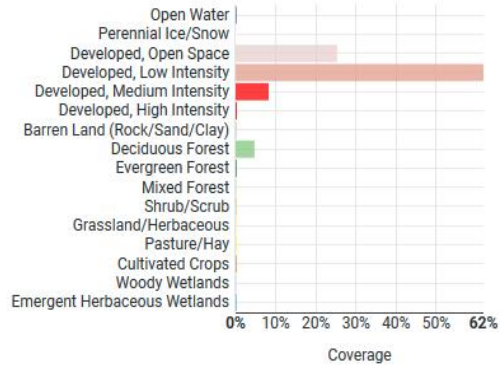
Selected Area 153,348 m²

[Land](#) [Soil](#) [Animals](#) [Point Sources](#) [Water Quality](#)

Land cover distribution

Related Layer: National Land Cover Database ☒ Turn on

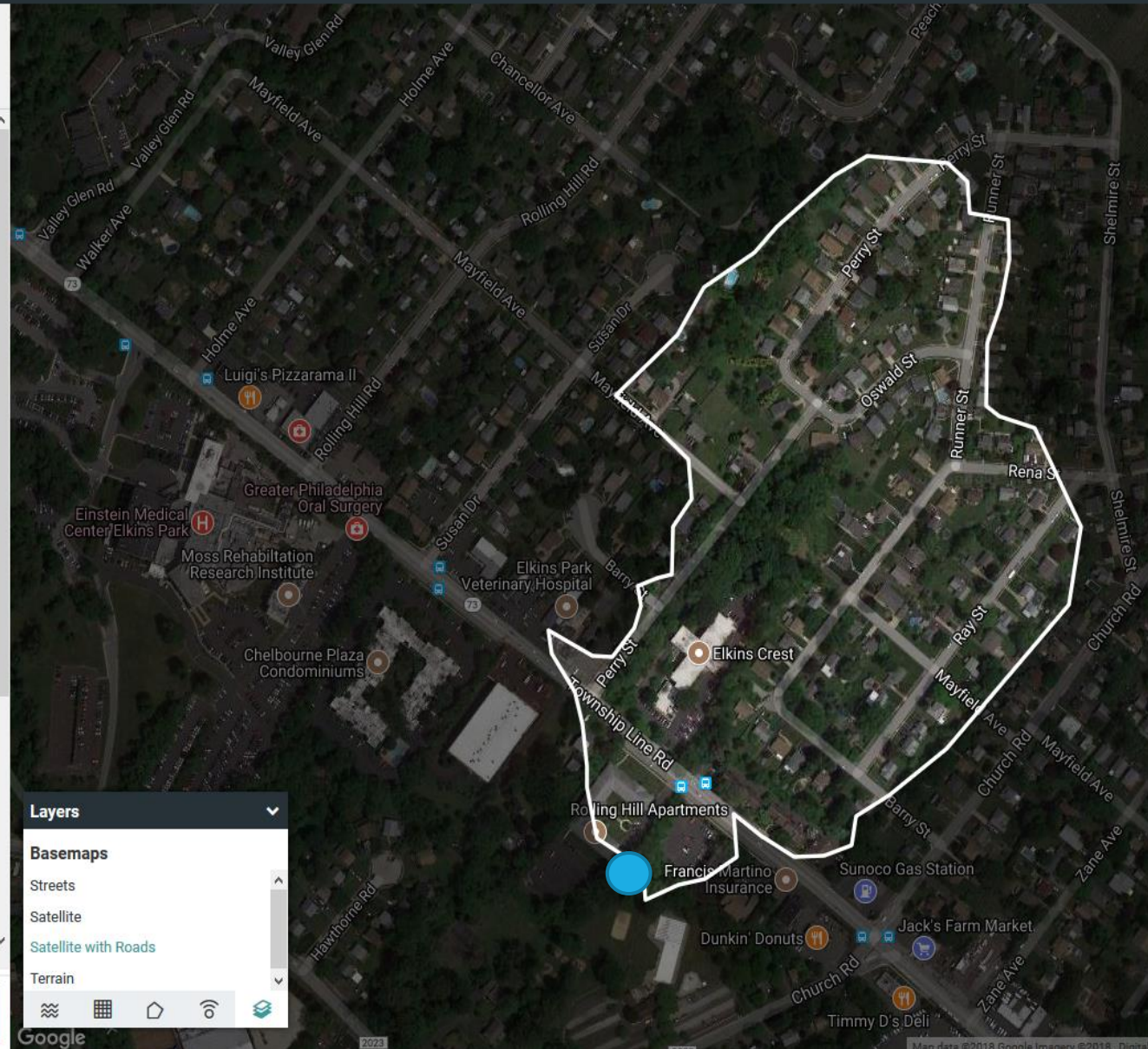
Source: National Land Cover Database (NLCD 2011) ⓘ



Type	Area (m ²)	Coverage (%)
Open Water	0.00	0.0
Perennial Ice/Snow	0.00	0.0
Developed, Open Space	38,581.23	25.3
Developed, Low Intensity	94,209.99	61.8
Developed, Medium Intensity	12,561.33	8.2
Developed, High Intensity	0.00	0.0
Barren Land (Rock/Sand/Clay)	0.00	0.0
Deciduous Forest	7,177.90	4.7
Evergreen Forest	0.00	0.0
Mixed Forest	0.00	0.0

Change area

Select a model



Conklin
Recreation
Center & Pool
Cheltenham
Township,
Montgomery
County,
Pennsylvania
– 42 Acre
drainage to
outfall

Conklin Project Goals— Intercept outfall and surface flows. Remove hard armor and restore to natural meandering stream channel



Removed concrete hard armoring and created natural meandering stream channel





Tookany/Tacony-Frankford
Watershed Partnership, Inc.

Jenkintown Creek Restoration at Conklin Pool



Volunteers
planted
native
trees,
shrubs
and
perennials
along the
restoration
project.



Before



After





Sisters of Saint Basil

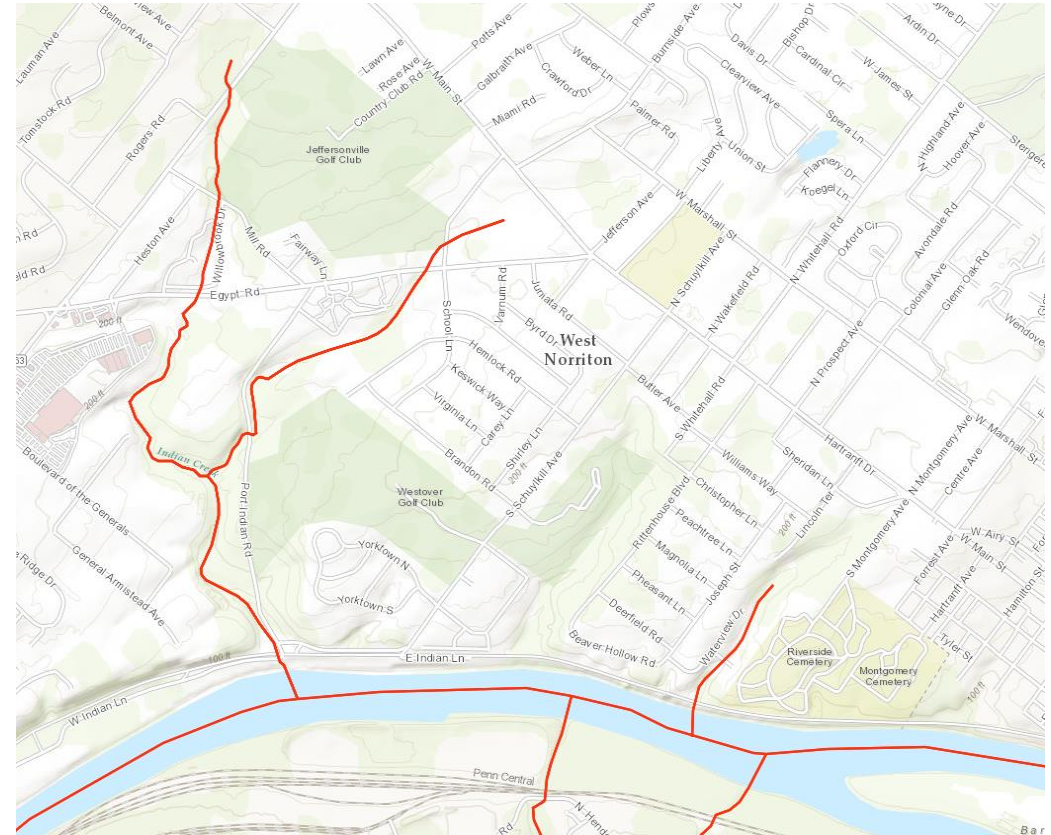
Before conditions -

- grotto backed up & clogged
- discharge pipe ruptured sending drainage to surface
- Stream enclosed in 400' pipe

Sisters of Saint Basil



Jeffersonville Golf Club Stream Restoration



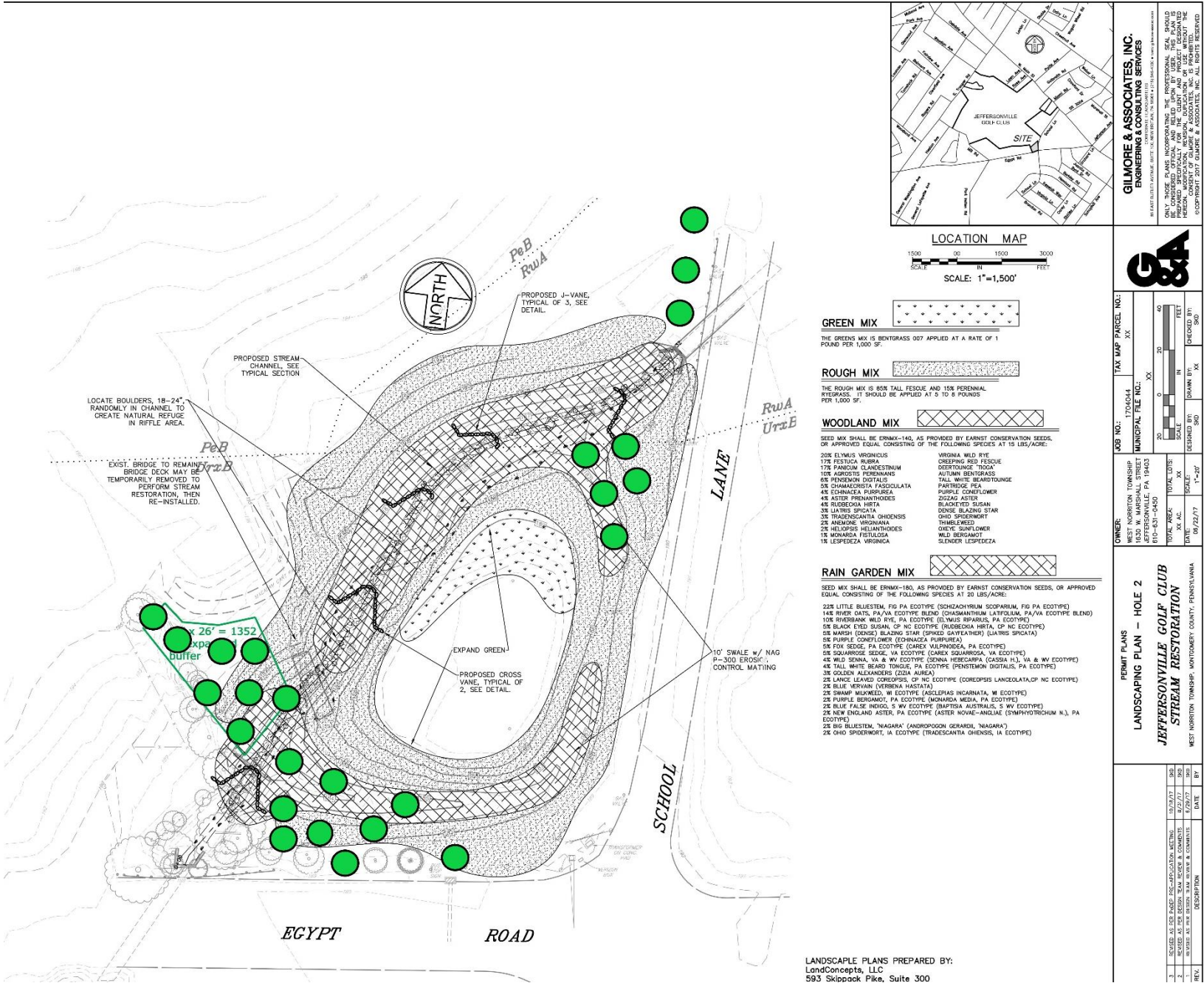
218 tributary acres – high impervious, main street commercial development
Impaired - Siltation caused by Water/Flow Variability (4c)

Stream Restoration Areas – 1100' of stream corridor



Project Goals

- Mitigating impacts of high volume and velocity flashy stormwater flows
- Reduce sediment loss and transport
- Expand floodplain storage
- Convert area of turf to a native stream buffer
- Create habitat



MS4 & Chapter 105 coordination

Jeffersonville Golf Course Buffers			
Hole 2 -total length of buffer 292 LF			
Buffer length	Forested buffer width	Meadow width	New proposed forested buffer width
238 LF side 1		20'	
54' LF side 1			26'
292 LF side 2		20'	
Hole 2 side 1 avg. permanent buffer = 21'			
Hole 2 side 2 avg. permanent buffer = 20'			
Average width 20.5'			
Hole 15 - total length of buffer area = 270 LF			
Buffer length	Forested buffer width	Meadow width	New proposed forested buffer width
110' side 1		20'	
160' - side 1	65'		
125' - side 2	60'		
145' side 2		20'	
100' downstream side 1			53'
80' downstream side 2			30'
Hole 15 average permanent buffer width side 1 = 49.5' average			
Hole 15 average permanent buffer width side 2 = 38.4' average			
Average width = 43.95'			
Hole 17 & 18 - total length of buffer 382 LF			
Buffer length	Forested buffer width	Meadow width	New proposed forested buffer width
157.5' side 1	45'		
179.5' side 1		20'	
45' side 1			70'
157.5' side 2	45'		
176.5 side 2		25'	
48' side 2			173'
Hole 17/18 average permanent buffer width side 1 = 36.75' average			
Hole 17/18 average permanent buffer width side 2 = 53.92' average			
Average width = 45.34			
Overall average buffer width across project = 37.3'			

- Joint permit
- Site meetings with MS4 and 105 staff to ensure design consistency
- Considerations of stream restoration projects in Pennsylvania for eligibility as an MS4 Best Management Practice. Credit determinations.
- Planted 1.5 acres of stream buffers
- Average width throughout restoration area = 37.3'



**315 NATIVE TREES & SHRUBS PLANTED
TO BUFFER 1100' OF STREAM CORRIDOR.
CONVERTED 1.5 ACRES
FROM MOWED TURF CONDITION TO STREAM BUFFER**

Water Quality Improvement Grants

DCED – Watershed Restoration and Protection Program –Applications accepted until May 31st. Funding to implement BMPS for agriculture, stormwater streambank and channel restoration, as well as retrofits, repair, upgrade or O&M of existing features. Max grant request \$300,000 <https://dced.pa.gov/programs/watershed-restoration-protection-program-wrpp/>

DCED – Flood Mitigation Program –Funding for projects identified by a local government for flood mitigation are eligible for the program. Max grant request - \$500,000. <https://dced.pa.gov/programs/flood-mitigation-program-fmp/>

DCNR – C2P2 and Riparian Forest Buffer Program Funding. RFP cycle expected to open January 2022. Funding available for park improvements, including stormwater management and riparian buffers. <https://www.grants.dcnr.state.pa.us>

DEP – Growing Greener. RFP open until June 25, 2021. Priority projects are those which construct or enhance effective stormwater control measures in priority watersheds where land use itself is not changing. Riparian corridor restoration/stabilization projects with an emphasis on the improvement of water quality and aquatic habitat. <http://www.dep.pa.gov/Citizens/GrantsLoansRebates/Growing-Greener/Pages/default.aspx>

MontCo 2040 Implementation grants – March 1, 2022 application deadline is expected. Sustainable places category includes goals of improving stormwater management, reduce impacts of flooding and conserve natural resources. <https://www.montcopa.org/2453/Montco-2040-Implementation-Grant-Program>

National Fish and Wildlife Foundation - Delaware River Restoration Fund – RFP expected January 2022. Targeted Implementation grants for construction projects related to restoration and green stormwater infrastructure. Habitat Restoration and Cornerstone grant category projects can be outside of targeted watersheds. Information can be found at <http://www.nfwf.org/delaware/Pages/home.aspx>

National Fish and Wildlife Foundation – Delaware Watershed Conservation Fund - RFP expected to open February 2022 to support projects for the protection, restoration and conservation of fish and wildlife habitat and water resources.

National Fish and Wildlife Foundation – 5 Star Restoration grants – On-the-ground wetland, riparian restoration. Education and training and integration with k-12 environmental curriculum. Next RFP cycle expected to open November 2021. www.nfwf.org/fivestar

PACD Multifunctional Riparian Buffer - Rolling application deadline until funds are exhausted.

PECO Green Region – Anticipated RFP deadline October 31, 2022. Supports open space, trails, and habitat and park improvements <https://apps.natlands.org/pecogreenregion>

Schuylkill River Restoration Fund - RFP expected to open January 2022. 2 page (max) Grants awarded in the range of \$20,000-\$100,000 for water quality improvement projects. https://www.schuylkillriver.org/Grant_Information.aspx

TreeVitalize Watersheds – RFP anticipated until August 2021. Tree planting along stream corridors, adjacent uplands, headwaters and stormwater facilities. <https://phsonline.org/programs/plant-one-million/treevitalize-watersheds-grant-program/>



Stormwater Committee

Stream Restoration - From City to Pasture to Suburbs
Wednesday, May 12, 2021 - 12:00pm - 1:00pm



**Tookany /
Tacony-Frankford**

Watershed Partnership, Inc.

Susan Harris, Advisor
susan@ceruleanenvironmental.com



**Brandywine
Red Clay Alliance**

Watershed Conservation | Environmental Education

Brian Winslow, Watershed Conservation Director
bwinslow@brandywineredclay.org

Become a member of PWEA ... visit **www.pwea.org** and click on the Membership tab.

PWEA Stormwater Committee Contacts

Nathan Walker, nawalker@gfnet.com

Beth Dutton, bdutton@pgh2o.com



PWEA Mission Statement

Enhance the knowledge and abilities of Pennsylvania's water quality professionals, promote sound sustainable water policies, and promote public awareness of the need to protect water resources.

Value of Membership

The Association's membership is comprised of approximately 1,800 professionals involved with water quality in Pennsylvania. PWEA is a Member Association of the Water Environment Federation (WEF), which is a not-for-profit association that provides technical education and training for thousands of water quality professionals. PWEA and WEF members have proudly protected public health, served their local communities, and supported clean water since 1928.

PennTec 2021 • June 20-23, 2021

Kalahari Resort & Convention Center, Pocono Manor, PA