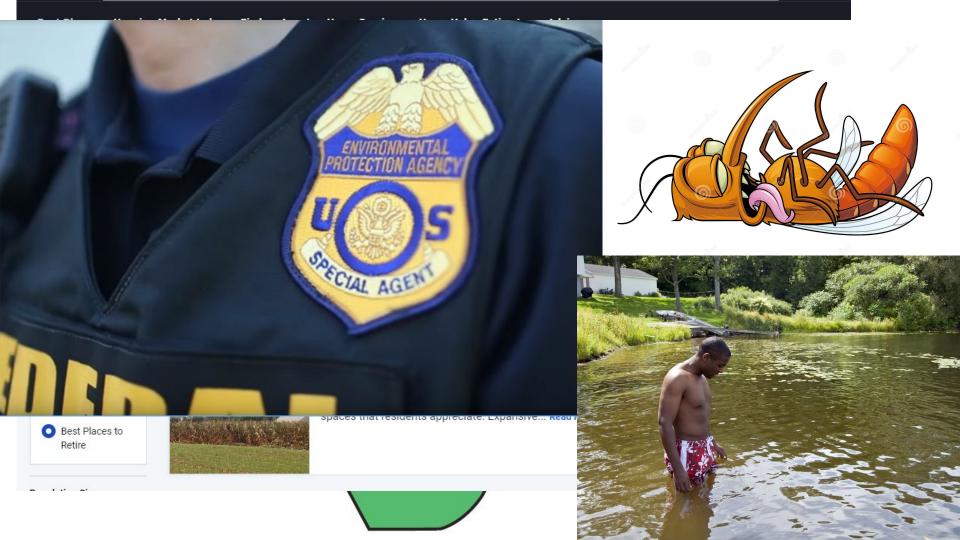
## Pennsylvania's State Constitution states...



"...the people have the right to clean air, pure water, and to the preservation of the natural, scenic, historic and esthetic values of the environment."

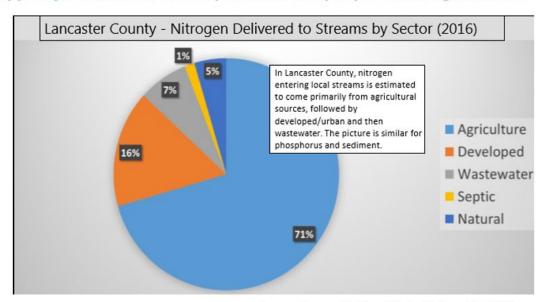
- Article I, Section 27





# CAP Opportunity

We know the best opportunities for clean water work and economic support for Lancaster's local priorities and people are in agriculture.



Source: Community Clean Water Toolbox, DEP 2018

But there are 5,000 farms in Lancaster and 1,400 miles of streams - that's too big to do all at once.

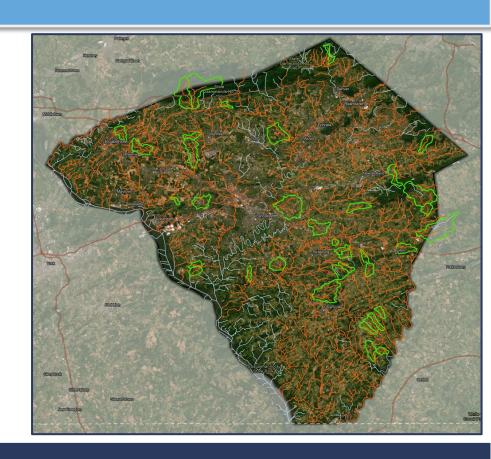


## Rapid Stream Delisting

- Fastest Recovery
- Efficient Implementation
- Building momentum







### Rapid Stream Delisting





Secure funding & implement full-farm restoration in the

Complete periodic stream IBI monitoring

catchment



ID partners for catchment

ID parcels as 1) shovel-ready; 2) landowner amenable; 3) outreach priority

ID funding & TA needs

Develop outreach & deliverables plan

Develop monitoring plan

Step 2: Develop stream de-listing plan

### Rapid Stream Delisting - Utilize GIS

Delineate upslope <u>catchment</u> areas of small ag-impaired stream segments where restoring a relatively small number of farms will make major water quality improvements.

And print out BIG maps to take to landowner events so they see they're part of a bigger community effort

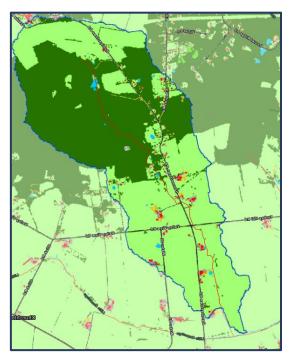






## Rapid Stream Delisting - Fastest Recovery

Higher IBI scores and percentage of forest



Index of biological integrity (IBI)

- A measure of stream health using diversity and quantity of stream insects
- More macroinvertebrates with a low tolerance for pollution = higher IBI score





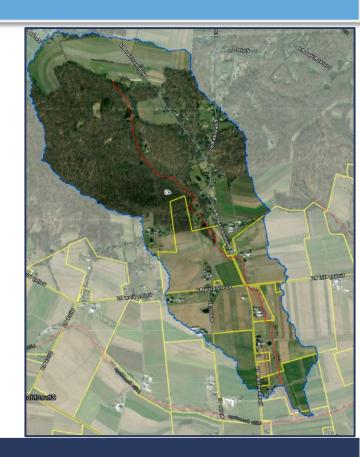
## Rapid Stream Delisting - Efficient Implementation

#### Parcel analysis

- Working on a fewer number of parcels with the greatest amount of restoration opportunity
- "Work smarter, not harder"







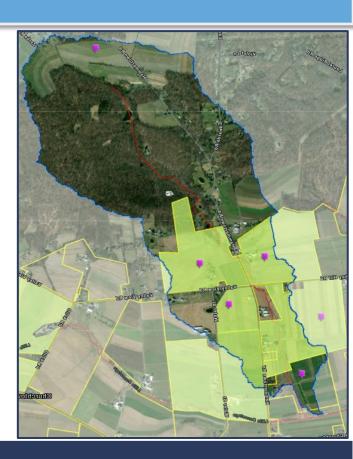
## Rapid Stream Delisting - Building Momentum

### Using local expertise and experience

- Local knowledge of on-the-ground professionals
- Using existing landowner networks and relationships
- Show results by monitoring water quality in each catchment area







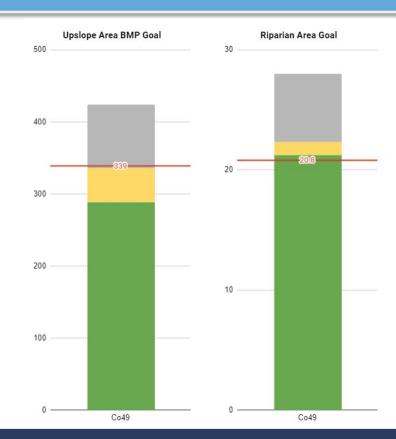
### **Data Collections and Sources**

## Rapid Stream Delisting Dashboard

- Publicly available
- Provides an up-to-date snapshot of the rapid stream delisting progress
- Offers general information on the catchment areas







### Measurements

### Measures

**Outcomes** 

**Buffer acres** 

Ag acres

Trees planted

Reductions

MS4

IBI scores

Credits

2040

Regulation Timelines

**Watershed Health** 





