



## Growing Greener Watershed Protection and AMD Set-Aside Goals & Accomplishments Form

This form represents (choose one):

- ☒ Project Goals  
☐ Project Accomplishments (to be submitted with final report)

Project Title WIP Implementation Phase V South Branch Plum Creek

Application ID # 202006070809

Contract # \_\_\_\_\_

Grantee Indiana County Conservation District

Grant Amount \$280,000

County Indiana

Municipality South Mahoning Township

Is this project located within the Chesapeake Bay watershed? ☐ Yes ☒ No

### Partners:

Partner Name* (Add additional rows if needed)	Role	Organization Type	Match Amount	Cash or In-Kind
Indiana County Conservation District	Grant Admin.	County/Municipal Agencies	\$10,000	cash
Americorps	Education	Non-Government Org. (NGO)	\$1,000	In-Kind
landowners		Private Landowner	\$	In-Kind
		Choose an item	\$	
		Choose an item	\$	

\*Do not list individual volunteer or private landowner names.

**Project Type** (check all that apply to the portion of the project being funded through this Growing Greener grant)

☐ Organization of a Watershed Group (**fill out Sheet A\***)

☐ Watershed Assessment and Development of Watershed Plan  
(check the applicable project subtype and **fill out sheet B\***)

☐ Assessment

☐ Development of Watershed Restoration Plan

☐ Development of Watershed Protection Plan

☒ Implementation of Restoration and/or Protection Project  
(check the applicable project subtype)

☒ Restoration (check all that apply)

☒ Design

☒ Permit

☒ Construction (**must complete Sheet H\***)

☐ Protection

☐ Operation, Maintenance, or Repair of existing Best Management Practices

Check any applicable implementation categories and (**fill out Sheets C, D, E, F, and/or G\***):

☐ AMD/AML (**fill out sheet C\***)

☐ Oil and Gas (**fill out sheet C\***)

☒ Agriculture (**fill out sheet D\***)

☐ Stormwater/Other (**fill out sheet E\***)

☒ Stream/Riparian (**fill out sheet F\***)

☐ Wetland (**fill out sheet G\***)

☐ Demonstration (**fill out Sheet I\***)

☒ Education/Outreach (**fill out Sheet J\***)

\*Please fill out all the appropriate information on the sheets corresponding to the project type. Leave blank any sheets or information on the sheets that do not apply to the specific project. If you have any questions, contact your DEP Project Advisor.

## Organization of a Watershed Group

Name of Group \_\_\_\_\_

Watershed Area \_\_\_\_\_ Square Miles

Membership \_\_\_\_\_ Number

Meetings Held \_\_\_\_\_ Number Held

\_\_\_\_\_ Attendance (Average)

Mission Defined ☐ Yes ☐ No

Incorporation ☐ Yes \_\_\_\_\_ Date

☐ Applied \_\_\_\_\_ Date

☐ No

Non-Profit Status ☐ Yes \_\_\_\_\_ Date

☐ Applied \_\_\_\_\_ Date

☐ No

Officers Elected ☐ Yes ☐ No

Strategic Plan Developed ☐ Yes ☐ No \_\_\_\_\_ Date

Newsletter \_\_\_\_\_ Number Printed

Brochures \_\_\_\_\_ Number Printed

Webpage \_\_\_\_\_ Web Address

Other Outreach ☐ Describe in Narrative

Describe activities not defined completely by above selections:

## Watershed Assessment and Development of Watershed Plan for Restoration and/or Protection

**Watershed Name** \_\_\_\_\_

**Watershed Area** \_\_\_\_\_ square miles

**Stream Reach** \_\_\_\_\_ feet

**GPS Coordinates at mouth of watershed** (decimal degrees, ex. 41.0258, -78.6556)

Latitude \_\_\_\_\_ Longitude - \_\_\_\_\_ (attach map detailing targeted watershed boundary)

**303(d) Listed** ☐ Yes ☐ No

**Chapter 93 designation** Aquatic Life Protected Use: Choose an item.

Special Protection Designation: Choose an item.

Problems Identified: ☐ AMD ☐ Trash ☐ Point Source Pollutants

☐ Erosion & Sedimentation ☐ Stormwater ☐ Temperature

☐ Data Gathered \_\_\_\_\_ briefly describe

☐ Monitoring Measurements \_\_\_\_\_ type

Stations Monitored: Chemistry \_\_\_\_\_ #/frequency

Biology \_\_\_\_\_ #/frequency

☐ Macroinvertebrates Identified \_\_\_\_\_ species

☐ Surveys Completed \_\_\_\_\_ type

☐ Fish Identified \_\_\_\_\_ species

☐ Nutrient Assessed \_\_\_\_\_ list below

☐ Maps Developed \_\_\_\_\_ number/type

☐ Stream Corridors Restored \_\_\_\_\_ feet planned

☐ Stream Corridors Protected \_\_\_\_\_ feet planned

☐ Riparian Buffers Restored \_\_\_\_\_ acres planned

☐ Riparian Buffers Protected \_\_\_\_\_ acres planned

☐ Education/Outreach \_\_\_\_\_ describe

☐ Public Input \_\_\_\_\_ describe

☐ TMDL Completed \_\_\_\_\_ describe

Describe activities not defined completely by above selections:

# Implementation - AMD Treatment / AML Practices / Oil and Gas

Receiving Stream Name \_\_\_\_\_

ATTAINS ID \_\_\_\_\_

Chapter 93 designation Aquatic Life Protected Use: Choose an item. **303(d) Listed** ☐ Yes ☐ No  
Special Protection Designation: Choose an item.

GPS Coordinates (decimal degrees, ex. 41.0258, -78.6556) Latitude \_\_\_\_\_ Longitude - \_\_\_\_\_

## Receiving Stream Benefits

Parameters	Upstream Quality		Downstream Quality	
	Before	After	Before	After
Fe (mg/L)				
pH (S.U.)				
Acid (mg/L as CaCO <sub>3</sub> )				
Alk (mg/L as CaCO <sub>3</sub> )				
Al (mg/L)				
Mn (mg/L)				

## Best Management Practices (BMPs) and Components

Check all that apply and attach location map and site map(s) detailing BMP locations within the site(s):

	AMD Treatment / AML Practices	Planned On (date)	Implemented On (date)	Implemented Amount	Implemented Units of Measure
<input type="checkbox"/>	<b>AMD treatment system,</b> <input type="checkbox"/> subtype active				<b>quantity</b>
	<input type="checkbox"/> anoxic intake				quantity
	<input type="checkbox"/> intake				quantity
	<input type="checkbox"/> chemical doser				quantity
	<input type="checkbox"/> chemical plant				quantity
	<input type="checkbox"/> channel				quantity
	<input type="checkbox"/> settling pond				quantity
	<input type="checkbox"/> dam intake				quantity
<input type="checkbox"/>	<b>AMD treatment system,</b> <input type="checkbox"/> subtype passive				<b>quantity</b>
	<input type="checkbox"/> constructed wetland				quantity
	<input type="checkbox"/> aerobic				quantity
	<input type="checkbox"/> anaerobic				quantity
	<input type="checkbox"/> limestone pond				quantity
	<input type="checkbox"/> alkalinity injection				quantity
	<input type="checkbox"/> anoxic intake				quantity
	<input type="checkbox"/> intake				quantity
	<input type="checkbox"/> anoxic limestone bed				quantity
	<input type="checkbox"/> autoflushing limestone SAPS				quantity
	<input type="checkbox"/> bioswale				quantity
	<input type="checkbox"/> oxic limestone bed				quantity
	<input type="checkbox"/> chemical doser				quantity
	<input type="checkbox"/> channel				quantity

<input type="checkbox"/>	limestone diversion tank				quantity
<input type="checkbox"/>	limestone downflow bioreactor				quantity
<input type="checkbox"/>	limestone downflow bed				quantity
<input type="checkbox"/>	flush pond				quantity
<input type="checkbox"/>	forebay				quantity
<input type="checkbox"/>	limestone horizontal flow bed				quantity
<input type="checkbox"/>	horizontal SAPS				quantity
<input type="checkbox"/>	limestone inclined bed				quantity
<input type="checkbox"/>	limestone bed				quantity
<input type="checkbox"/>	limestone diversion tank				quantity
<input type="checkbox"/>	limestone sand dosing				quantity
<input type="checkbox"/>	limestone open channel				quantity
<input type="checkbox"/>	oxidation channel				quantity
<input type="checkbox"/>	Mn removal				quantity
<input type="checkbox"/>	successive alkalinity producing system (SAPS)				quantity
<input type="checkbox"/>	settling pond				quantity
<input type="checkbox"/>	steel slag diversion tank				quantity
<input type="checkbox"/>	steel slag pond				quantity
<input type="checkbox"/>	sulfur reducing bioreactor				quantity
<input type="checkbox"/>	dam intake				quantity
<input type="checkbox"/>	limestone upflow bed				quantity
<input type="checkbox"/>	upflow SAPS				quantity
<input type="checkbox"/>	downflow SAPS				quantity
<input type="checkbox"/>	<b>abandoned mine land reclamation</b>				<b>acres</b>
<input type="checkbox"/>	capping				quantity
<input type="checkbox"/>	limestone land applied				cubic feet
<input type="checkbox"/>	limestone sand dosing				cubic feet
<input type="checkbox"/>	alkalinity injection				gallons
	<b>Oil and Gas</b>	<b>Planned On (date)</b>	<b>Implemented On (date)</b>	<b>Implemented Amount</b>	<b>Implemented Units of Measure</b>
<input type="checkbox"/>	<b>wells plugged</b>				quantity
	Total Flow:	Before _____ gpm		After _____ gpm	
	Contaminants Removed/Prevented:	Fe _____ ppd		Acidity _____ ppd	
	Excess Alkalinity Added:	_____ ppd			
<input type="checkbox"/>	<b>wildlife habitat planting</b>				acres

### AMD Treatment System Outputs

Total Treated Flow Rate (average) _____ gpm	Total Treated Flow Rate (high) _____ gpm
Predicted Life Span of System _____ years	Sludge Capacity _____ years
Contaminants Removed/Contained by System (average load reduction):	
Fe _____ ppd	Al _____ ppd
Mn _____ ppd	Acid _____ ppd
Excess Alkalinity Added _____ ppd	pH Change: Influent _____
	pH Change: Effluent _____

## Implementation - Agriculture

**Waterbody Name** Leisure Run & UNT to S. Br. Plum Creek

**ATTAINS ID** PA-SCR-1238851636  
& PA-SCR-123861204

**Chapter 93 designation** Aquatic Life Protected Use: CWF

Special Protection Designation: HQ

**303(d) Listed** ☒ Yes (Leisure Run) ☒ No (UNT to S. Branch Plum Creek)

**GPS Coordinates** (decimal degrees, ex. 41.0258, -78.6556) Latitude 40.770727 Longitude -79.129633

Latitude 40.772580 Longitude -79.109377

### Best Management Practices (BMPs)

*Check all that apply and attach location map and site map(s) detailing BMP locations within the site(s):*

	Agricultural Practices (Farmstead/Barnyard)	Planned On (date)	Implemented On (date)	Implemented Amount	Implemented Units of Measure
<input type="checkbox"/>	access road (NRCS 560)				feet
<input type="checkbox"/>	comprehensive nutrient management plan – written (NRCS 102)				quantity
<input type="checkbox"/>	comprehensive nutrient management plan – applied (NRCS 103)				quantity
<input type="checkbox"/>	cover crop (NRCS 340)				acres
<input checked="" type="checkbox"/>	critical area planting (NRCS 342)	4/1/2023			acres
<input type="checkbox"/>	diversion (NRCS 362)				feet
<input checked="" type="checkbox"/>	fence (NRCS 382)	9/1/2022			feet
<input checked="" type="checkbox"/>	heavy use area protection (NRCS 561)	10/1/2022			square feet
<input type="checkbox"/>	improve the plant diversity & structure of non-cropped areas for wildlife food and habitat				acres
<input type="checkbox"/>	integrated pest management (NRCS 595)				acres
<input type="checkbox"/>	lined waterway or outlet (NRCS 468)				feet
<input type="checkbox"/>	nutrient management (NRCS 590)				acres
<input checked="" type="checkbox"/>	prescribed grazing (NRCS 528)	10/1/2022			acres
<input type="checkbox"/>	residue and tillage management, no-till/strip till/direct seed (NRCS 329)				acres
<input type="checkbox"/>	roof runoff structure (NRCS 558)				quantity
<input type="checkbox"/>	roofs and covers (NRCS 367)				quantity
<input type="checkbox"/>	stormwater runoff control (NRCS 570)				acres
<input checked="" type="checkbox"/>	stream crossing (NRCS 578)	8/1/2022			quantity
<input type="checkbox"/>	terrace (NRCS 600)				feet
<input checked="" type="checkbox"/>	trails and walkways (NRCS 575)	8/1/2022			feet
<input type="checkbox"/>	underground outlet (NRCS 620)				feet
<input type="checkbox"/>	waste storage facility (NRCS 313)				quantity
<input checked="" type="checkbox"/>	watering facility (NRCS 614)	10/1/2022			quantity

## Implementation – Stormwater / Other

Waterbody Name \_\_\_\_\_

ATTAINS ID \_\_\_\_\_

Chapter 93 designation Aquatic Life Protected Use: Choose an item.

Special Protection Designation: Choose an item.

303(d) Listed ☐ Yes ☐ No

GPS Coordinates (decimal degrees, ex. 41.0258, -78.6556) Latitude \_\_\_\_\_ Longitude - \_\_\_\_\_

### Best Management Practices (BMPs)

*Check all that apply and attach location map and site map(s) detailing BMP locations within the site(s):*

	Stormwater Practices	Planned On (date)	Implemented On (date)	Implemented Amount	Implemented Units of Measure
<input type="checkbox"/>	constructed filter				quantity
<input type="checkbox"/>	constructed wetland (NRCS 656) (subtype): <input type="checkbox"/> aerobic <input type="checkbox"/> anaerobic				acres
<input type="checkbox"/>	conversion of dry retention to wet				acres
<input type="checkbox"/>	dry extended detention basin				acres
<input type="checkbox"/>	infiltration basin				acres
<input type="checkbox"/>	infiltration berm/retentive grading				acres
<input type="checkbox"/>	infiltration trench				feet
<input type="checkbox"/>	level spreader				feet
<input type="checkbox"/>	pervious pavement				square feet
<input type="checkbox"/>	rain garden/bio-retention				square feet
<input type="checkbox"/>	rooftop disconnection				acres
<input type="checkbox"/>	sediment fore bay				square feet
<input type="checkbox"/>	subsurface infiltration bed				acres
<input type="checkbox"/>	vegetated roof				square feet
<input type="checkbox"/>	vegetated swale				feet
<input type="checkbox"/>	water quality inserts/inlets				quantity
<input type="checkbox"/>	wet pond				acres
	<b>Other Practices</b>	<b>Planned On (date)</b>	<b>Implemented On (date)</b>	<b>Implemented Amount</b>	<b>Implemented Units of Measure</b>
<input type="checkbox"/>	dirt/gravel road maintenance				feet
<input type="checkbox"/>	home septic denitrification installed				quantity
<input type="checkbox"/>	nutrient management (NRCS 590)				acres
<input type="checkbox"/>	road bank stabilized				feet
<input type="checkbox"/>	sediment basin (NRCS 350)				quantity
<input type="checkbox"/>	septic pumping				gallons
<input type="checkbox"/>	septic systems connected to WWTP POTW				quantity



## Implementation – Stream/Riparian

**Waterbody Name** South Branch Plum Creek

**ATTAINS ID** PA-SCR-123861195

**Chapter 93 designation** Aquatic Life Protected Use: CWF

Special Protection Designation: HQ

**303(d) Listed** ☐ Yes ☒ No

**GPS Coordinates** (decimal degrees, ex. 41.0258, -78.6556) Latitude 40.7757 Longitude -79.0898

### Best Management Practices (BMPs)

*Check all that apply and attach location map and site map(s) detailing BMP locations within the site(s):*

	Stream/Riparian Practices	Planned On (date)	Implemented On (date)	Implemented Amount	Implemented Units of Measure
<input type="checkbox"/>	channel bed stabilization (NRCS 584)				feet
<input type="checkbox"/>	channel floodplain restoration				feet
<input type="checkbox"/>	dam removal				quantity
<input type="checkbox"/>	filter strip (NRCS 393)				acres
<input type="checkbox"/>	herbaceous weed control (NRCS 315)				acres
<input type="checkbox"/>	invasive species removal				square feet
<input type="checkbox"/>	lake aeration				acres
<input type="checkbox"/>	native planting (subtype):				acres
	<input type="checkbox"/> bareroot				quantity
	<input type="checkbox"/> container grown				quantity
	<input type="checkbox"/> protected root stock				quantity
	<input type="checkbox"/> live stakes				quantity
<input type="checkbox"/>	riparian forest buffer (NRCS 391)				acres
<input type="checkbox"/>	riparian herbaceous cover (NRCS 390)				acres
<input checked="" type="checkbox"/>	streambank and shoreline protection (NRCS 580)	6/30/2023			feet
<input type="checkbox"/>	fish habitat structure(s) (Provide total stream length. Select structure type(s) & quantity.)				feet
	<input type="checkbox"/> brush mattress				quantity
	<input type="checkbox"/> cross vane (stone or log)				quantity
	<input type="checkbox"/> deflector (stone or log)				quantity
	<input type="checkbox"/> j-hook				quantity
	<input type="checkbox"/> log vane				quantity
	<input type="checkbox"/> mud sill				quantity
	<input type="checkbox"/> random boulders				quantity
	<input type="checkbox"/> rock vane				quantity
	<input type="checkbox"/> root wad				quantity
	<input type="checkbox"/> toe crib structure				quantity
	<input type="checkbox"/> toe rock				quantity
<input type="checkbox"/>	trash removed				pounds

## Implementation – Wetlands

Waterbody Name \_\_\_\_\_

ATTAINS ID \_\_\_\_\_

Chapter 93 designation Aquatic Life Protected Use: Choose an item.

Special Protection Designation: Choose an item.

303(d) Listed ☐ Yes ☐ No

GPS Coordinates (decimal degrees, ex. 41.0258, -78.6556) Latitude \_\_\_\_\_ Longitude - \_\_\_\_\_

### Best Management Practices (BMPs)

*Check all that apply and attach location map and site map(s) detailing BMP locations within the site(s):*

	Wetland Practices	Planned On (date)	Implemented On (date)	Implemented Amount	Implemented Units of Measure
<input type="checkbox"/>	<b>wetland creation</b> (NRCS 658)				acres
<input type="checkbox"/>	<b>wetland enhancement</b> (NRCS 659) (subtype): <input type="checkbox"/> fencing <input type="checkbox"/> hydrologic manipulation <input type="checkbox"/> invasive species control <input type="checkbox"/> native planting				acres
<input type="checkbox"/>	<b>wetland protection</b>				acres
<input type="checkbox"/>	<b>wetland restoration</b> (NRCS 657)				acres

## Pollutants and Load Reductions

<i>(Construction/installation projects only. Check all that apply and complete required items.)</i>					<i>Post-Implementation</i>
	<b>Pollutant</b> <i>(Common pollutants are listed first.)</i>	<b>Estimated Load Reduction</b>	<b>Unit of Measure</b>	<b>Load Reduction Model</b>	<b>Load Reduction Date</b>
<input type="checkbox"/>	Acidity		LBS/DAY		
<input type="checkbox"/>	Metals (Aluminum)		LBS/DAY		
<input type="checkbox"/>	Metals (Iron)		LBS/DAY		
<input type="checkbox"/>	Metals (Manganese)		LBS/DAY		
<input type="checkbox"/>	Nitrogen		LBS/YR		
<input type="checkbox"/>	Phosphorus		LBS/YR		
<input checked="" type="checkbox"/>	Sedimentation-Siltation	4.5	TONS/YR	Mapshed	
<input type="checkbox"/>	Algal Growth/Chlorophyll				
<input type="checkbox"/>	Ammonia				
<input type="checkbox"/>	Bacteria				
<input type="checkbox"/>	Biochemical Oxygen Demand (BOD)				
<input type="checkbox"/>	Chemical Oxygen Demand (COD)				
<input type="checkbox"/>	Chlorine				
<input type="checkbox"/>	Conductivity (mohms/cm @ 25 °C)				
<input type="checkbox"/>	Dissolved Oxygen (Low)				
<input type="checkbox"/>	Fecal coliform				
<input type="checkbox"/>	Inorganics (Other)				
<input type="checkbox"/>	Metals (Arsenic)				
<input type="checkbox"/>	Metals (Cadmium)				
<input type="checkbox"/>	Metals (Chromium)				
<input type="checkbox"/>	Metals (Copper)				
<input type="checkbox"/>	Metals (Lead)				
<input type="checkbox"/>	Metals (Mercury)				
<input type="checkbox"/>	Metals (Other)				
<input type="checkbox"/>	Metals (Selenium)				
<input type="checkbox"/>	Metals (Zinc)				
<input type="checkbox"/>	Nitrate				
<input type="checkbox"/>	Oil and Grease				
<input type="checkbox"/>	Organics (Other Nonpriority)				
<input type="checkbox"/>	Organics (Other Priority)				
<input type="checkbox"/>	PCBs				
<input type="checkbox"/>	Pathogens (Coliform)				
<input type="checkbox"/>	Pathogens (E Coli)				
<input type="checkbox"/>	Pathogens (Other)				
<input type="checkbox"/>	Pesticides (Chlordane)				
<input type="checkbox"/>	Pesticides (DDT)				
<input type="checkbox"/>	Pesticides (Dianzinon)				

<i>(Construction/installation projects only. Check all that apply and complete required items.)</i>					<i>Post-Implementation</i>
	<b>Pollutant</b> <i>(Common pollutants are listed first.)</i>	<b>Estimated Load Reduction</b>	<b>Unit of Measure</b>	<b>Load Reduction Model</b>	<b>Load Reduction Date</b>
<input type="checkbox"/>	Pesticides (Dieldrin)				
<input type="checkbox"/>	Pesticides (Other)				
<input type="checkbox"/>	Phosphate				
<input type="checkbox"/>	Road Salt or Deicer				
<input type="checkbox"/>	Sulfates				
<input type="checkbox"/>	Suspended solids				
<input type="checkbox"/>	Total Kjeldahl Nitrogen				
<input type="checkbox"/>	Toxics (Total)				
<input type="checkbox"/>	Treated Wastewater				
<input type="checkbox"/>	Turbidity				

## Demonstration Project

Name of project: \_\_\_\_\_

Type of project \_\_\_\_\_

Mining Related ☐ Yes ☐ No

Nonpoint Source Pollution Related ☐ Yes ☐ No

Demonstrations Held \_\_\_\_\_ Number

Demonstration Attendees \_\_\_\_\_ Number

Publicity \_\_\_\_\_ Number

Newspapers \_\_\_\_\_ Number

Radio Spots \_\_\_\_\_ Number

TV Spots \_\_\_\_\_ Number

Internet \_\_\_\_\_ Number

Magazine Articles \_\_\_\_\_ Number

Other \_\_\_\_\_ Number

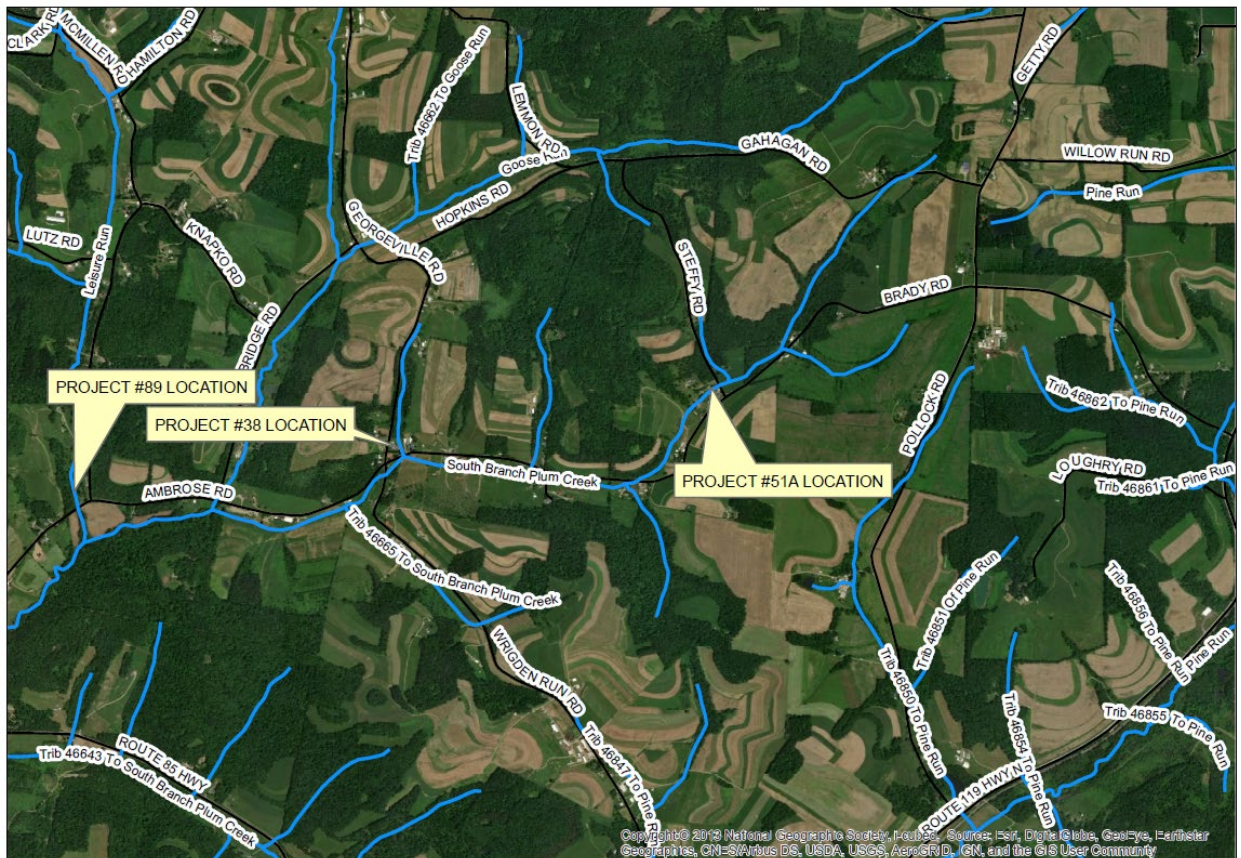
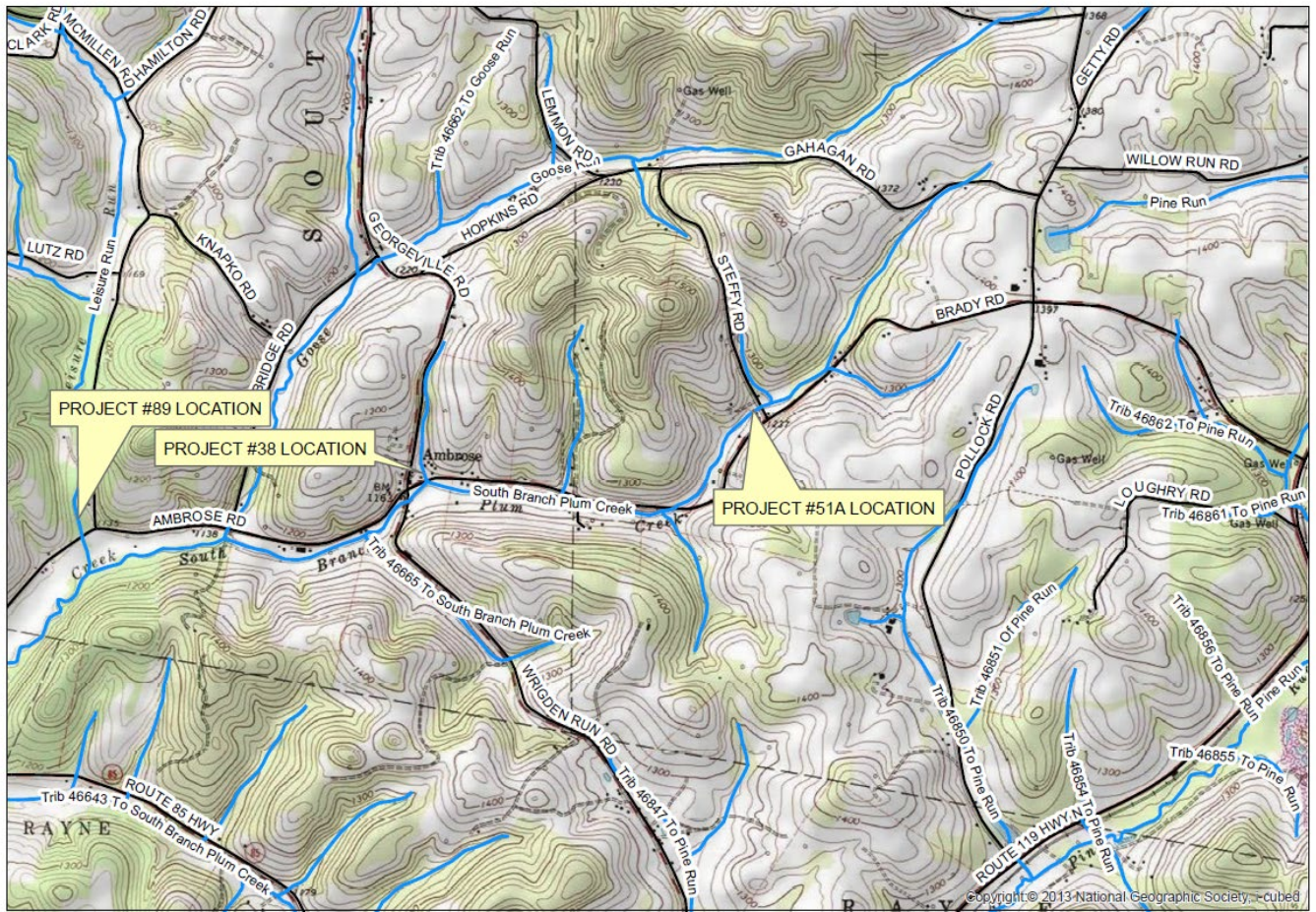
Describe activities not defined completely by above selections:

## Education Project/Outreach

Schools reached	_____	number
Children reached	_____	number
Adults reached	_____20	number
Brochures distributed	_____100	number
Newspaper articles	_____	number
Radio/TV spots	_____	number
Magazines	_____	number
Website hits	_____	number
Training sessions held	_____	number
Training session attendees	_____	number
Workshops held	_____	number
Workshop attendees	_____	number

Describe activities not defined completely by above selections:







## Grazing Layout

Date: 5/13/2019

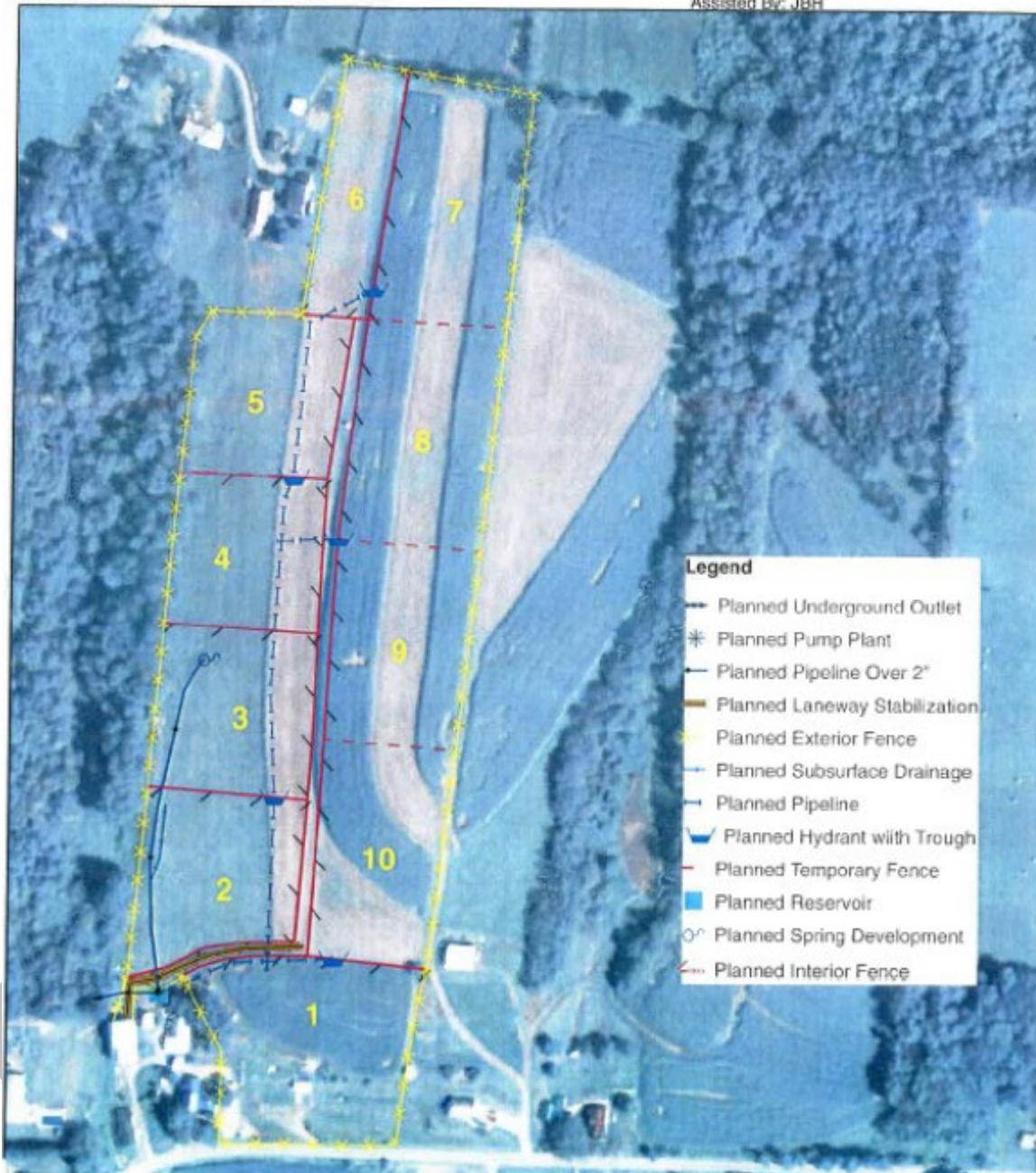
Customer(s) WIP #38

District: INDIANA CO

Field Office: INDIANA FIELD OFFICE

Agency: USDA NRCS

Assisted By: JBH



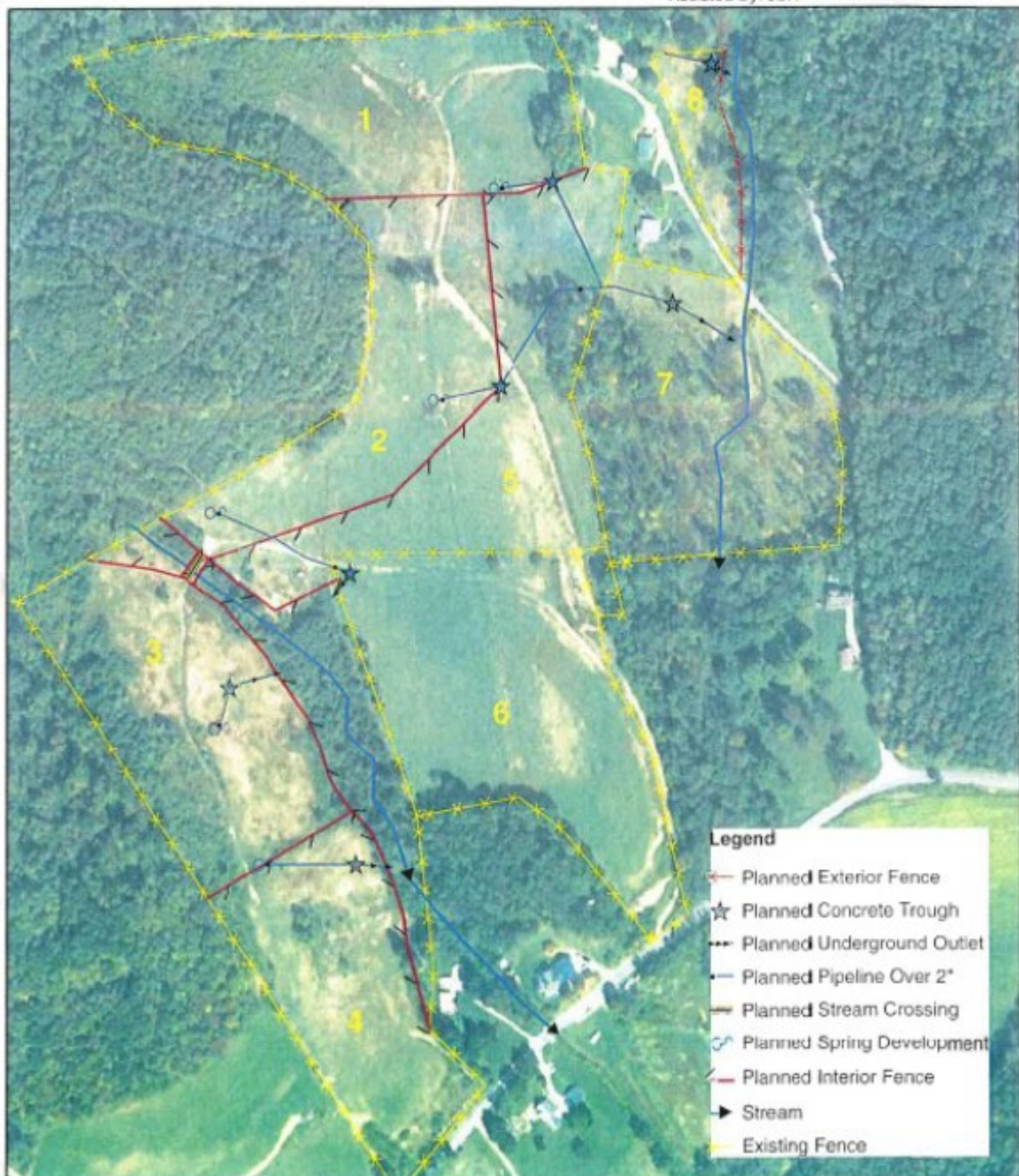


# Grazing Layout

Date: 6/3/2019

Customer(s): WIP #89  
District: INDIANA CD

Field Office: INDIANA FIELD OFFICE  
Agency: USDA NRCS  
Assisted By: JBH



# WIP Site 51A

