COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION CHESAPEAKE BAY OFFICE



319 NONPOINT SOURCE MANAGEMENT GOALS & ACCOMPLISHMENTS FORM

This	s form represents (choose one):
	Project Goals
	Project Accomplishments (to be submitted with final report)

Project Title: WIP Implementation Phase V South Branch Plum Creek

State Project Number: 2005

Contract Number: C990000000

Primary Subgrantee: Indiana County Conservation District

Project Manager Name: John Smith Project Manager Phone: 724-555-5555

Grant Amount (319(h) Federal Funds): \$280,000

Project Start Date: 4/1/2021 Project End Date: 6/30/2023

Kev Partners:

Partner Name* (Add additional rows if needed)	Role	Organization Type	Match/Partner Contributions 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 Land Holders	\$	In-Kind
		Choose an item.	\$	
		Choose an item.	\$	

^{*}Do not list individual volunteer or private land holder names.

Work Categories:

		Tronk Categorico.
Primary	Non-Primary	(Check all that apply. One must be marked primary.
		The rest of the applicable work categories are to be marked non-primary)
		319(h) National Monitoring Project
	\boxtimes	BMP Design
		BMP Effectiveness Monitoring
\boxtimes		BMP Implementation
		Education/Information
		GIS/Modeling
		Monitoring Design
		NPS State Staff Activities
		Regulatory/Enforcement
		Water Quality Assessment/Monitoring
		Watershed Planning

3000-FM-CB0019 5/2022 Form pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION

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Sources of NPS Pollution: (Provide Category percentages and check all applicable Secondary Categories.)

80%	Agriculture	%	Marinas and Recreational Boating
	☐ Aquaculture		☐ Boat Construction
	☑ Grazing Related Sources		☐ Boat Maintenance
	☐ Irrigated Crop Production		☐ Dredging
	☐ Non-Irrigated Crop Production		☐ Fueling
	☐ Pasture Grazing		☐ Other On-Vessel Discharges
	☐ Range Grazing		☐ Pumpouts
	☐ Specialty Crop Production		☐ Sanitary On-Vessel Discharges
	(e.g. horticulture/citrus/nuts/fruits)		
%	Animal Feeding Operations		☐ Shoreline Erosion
	(no secondary category)	%	Other NPS Pollution
%	Construction		□Atmospheric Deposition
	☐ Highways/Roads/Bridges		☐ Erosion From Derelict Land
	☐ Land Development or Redevelopment		☐ Forest fire/Wildfire
%	Historical Pollutants		☐ Groundwater Loadings
	☐ Clean Sediments		□ Natural Sources
	☐ Contaminated Sediments		Rec. & Tourism Activities (non-boating)
	☐ Other Historical Pollutants		Spills
%	Hydromodification		□ Wildlife
	☐ Channelization	%	Resource Extraction
	☐ Dam Construction		Abandoned Mine Drainage
	☐ Drainage/Filling of Wetlands		☐ Dredge Mining
	☐ Dredging		☐ Mill Tailings
	☐ Flow Regulations/Modification		☐ Mine Tailings
	☐ Groundwater Withdrawal		☐ Open Pit Mining
	☐ Other Habitat Modification		☐ Petroleum Activities
	☐ Removal of Riparian Vegetation		☐ Placer Mining
	☐ Streambank or Shoreline		☐ Sand/Gravel Mining
	Modification/Destabilization		
	☐ Upstream Impoundment		☐ Subsurface Mining
20%	Land Disposal/Storage Treatment		☐ Surface Mining
	☐ Hazardous Waste	%	Silviculture
	☐ Inappropriate Waste Disposal		☐ Forest Management
	☐ Industrial Land Management		☐ Harvesting/Residue Management
	☐ Landfills		☐ Reforestation
	☐ On-site/Decentralized Wastewater		☐ Road Construction Maintenance
	☐ Septage Disposal	%	Turf Management
	☐ Storage Tank Leaks (above ground)		☐ Golf Courses
	☐ Storage Tank Leaks (underground)		☐ Other Turf Management
	□ Wastewater		☐ Yard Maintenance
		%	Urban Runoff/Stormwater
			☐ Commercial
			☐ Dry Weather Flows
			☐ Highway/Road/Bridge Runoff
			☐ Illicit Connections/Illegal Hook-ups
			☐ Municipal
			☐ Post-Development Erosion and Sed.
			☐ Residential
			☐ Salt Storage Sites
		l	

Waterbodies:

Waterbody Name	Туре	ATTAINS ID
(Add additional rows if needed.)		
South Branch Plum Creek	Stream/Creek/River	PA-SCR-123861204
Leisure Run	Stream/Creek/River	PA-SCR-123851636
	Choose an item.	

Map Location & Drainage Areas: (Attach map(s) showing the location of the site(s).)

Site (Land Unit) Name (Add additional rows if needed.)	Latitude (decimal degrees)	Longitude (decimal degrees)	HUC12
WIP Site 38	40.772580	-79.109377	050100060901
WIP Site 89	40.770727	-79.129633	050100060901
WIP Site 51A	40.775748	-79.089861	050100060901

Watershed Plan:

319 Watershed Implementation Plan (WIP) Name	Status
Watershed Implementation Plan for South Branch Plum Creek	Implementing a Watershed Based Plan

Pollutants and Load Reductions:

(Implementation projects only. Check a	all that apply a	nd complete t	the required items.)	Post-Implem	nentation
Pollutant (Common pollutants are listed first.)	Estimated Load Reduction	Unit of Measure	Load Reduction Model*	Load Reduction Date	TMDL? Yes or No
Acidity		LBS/DAY			
Metals (Aluminum)		LBS/DAY			
Metals (Iron)		LBS/DAY			
Metals (Manganese)		LBS/DAY			
Nitrogen		LBS/YR			
Phosphorus		LBS/YR			
Sedimentation-Siltation	4.5	TONS/YR	MapShed		
Algal Growth/Chlorophyll					
Ammonia					
Bacteria					
Biochemical Oxygen Demand (BOD)					
Chemical Oxygen Demand (COD)					
Chlorine					
Conductivity (mohms/cm @ 25 °C)					
Dissolved Oxygen (Low)					
Fecal coliform					
Inorganics (Other)					
Metals (Arsenic)					
Metals (Cadmium)					
Metals (Chromium)					
Metals (Copper)					
Metals (Lead)					

Metals (Mercury)			
Metals (Other)			
Metals (Selenium)			
Metals (Zinc)			
Nitrate			
Oil and Grease			
Organics (Other Nonpriority)			
Organics (Other Priority)			
PCBs			
Pathogens (Coliform)			
Pathogens (E Coli)			
Pathogens (Other)			
Pesticides (Chlordane)			
Pesticides (DDT)			
Pesticides (Dianzinon)			
Pesticides (Dieldrin)			
Pesticides (Other)			
Phosphate			
Road Salt or Deicer			
Sulfates			
Suspended solids			
Total Kjeldahl Nitrogen			
Toxics (Total)			
Treated Wastewater			
Turbidity			
 		 T1451 1 11 1	

^{*}Model used to generate load reductions should be consistent with WIP or TMDL, where applicable and appropriate.

Related Best Management Practices (BMPs)
Check all that apply and attach map(s) detailing BMP locations within the site(s):

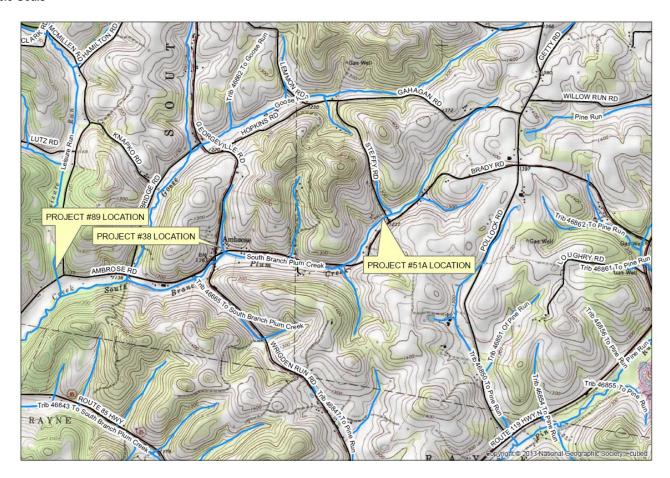
AMD Treatment/AML Practices	Planned On (date)	Implemented On (date)	Implemented Amount	Implemented Units of Measure
AMD treatment system, □ subtype active				quantity
AMD treatment system, □ subtype passive				quantity
land reconstruction, abandoned mined land (NRCS 543)				acres
Agricultural Practices	Planned On (date)	Implemented On (date)	Implemented Amount	Implemented Units of Measure
access control (NRCS 472)				acres
access road (NRCS 560)				feet
agrichemical handling facility (NRCS 309)				quantity
alley cropping (NRCS 311)				acres
animal mortality facility (NRCS 316)				quantity
closure of waste impoundment (NRCS 360)				quantity
composting facility (NRCS 317)				quantity

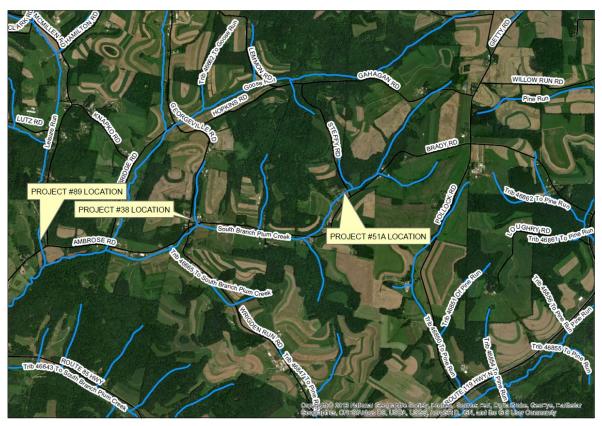
□ comprehensive nutrient management planwirtten (knRCS 102) quantity □ comprehensive nutrient management planapplied (knRCS 103) quantity □ conservation cover (knRCS 327) acres □ continuous cover crops (SQL02) acres □ continuous cover crops (SQL02) acres □ contour buffer strips (knRCS 333) acres □ cover crop (knRCS 340) acres □ cover crop (knRCS 342) 3/1/2023 □ deep tillage (knRCS 342) 3/1/2023 □ deep tillage (knRCS 342) acres □ diversion (knRCS 362) feet □ drainage water management (knRCS 554) acres □ feed management (knRCS 552) acres □ field border (knRCS 388) acres □ filter strip (knRCS 393) acres □ forage and biomass planting (knRCS 512) acres □ forage harvest management (knRCS 511) acres □ forage harvest management (knRCS 581) acres □ forage harvest management (knRCS 581) acres □ forage harvest management (knRCS 581) acres □ frigation reservoir (knRCS 4836) acres □ irrigation water conveyanc			1	1	T	
applied (NRCS 103) quantity quantity		written (NRCS 102)				quantity
□ conservation crop rotation (NRCS 328) acres □ continuous cover crops (SQL02) acres □ contour buffer strips (NRCS 332) acres □ contour farming (NRCS 340) acres □ contour farming (NRCS 340) acres □ cortical area planting (NRCS 342) acres □ deep tillage (NRCS 324) acres □ diversion (NRCS 362) feet □ drainage water management (NRCS 554) acres □ feed management (NRCS 382) animal units □ feed management (NRCS 382) apres □ field border (NRCS 388) acres □ filter strip (NRCS 383) acres □ filter strip (NRCS 383) acres □ forage and biomass planting (NRCS 511) acres □ forage and biomass planting (NRCS 511) acres □ forage harvest management (NRCS 511) acres □ forage and protection (NRCS 561) 10/1/2021 □ intercroppling to improve soil quality & increase biogiversity (SQL08) acres □ irrigation water conveyance (NRCS 430) feet □ irrigation system, sprinkler (NRCS 442) acres □ irrigation system, sprinkler (NRCS						quantity
□ continuous cover crops (SQL02) acres □ contour buffer strips (NRCS 332) acres □ contour farming (NRCS 340) acres □ cortour crop (NRCS 340) acres □ critical area planting (NRCS 342) 3/1/2023 acres □ deep tillage (NRCS 324) acres acres □ drainage water management (NRCS 554) acres feet □ drainage water management (NRCS 592) animal units feet □ fleed management (NRCS 382) \$/1/2021 feet □ fleed border (NRCS 386) acres acres □ fillter strip (NRCS 393) acres acres □ forage and biomass planting (NRCS 512) acres acres □ forage harvest management (NRCS 511) acres acres □ forage naryes management (NRCS 512) acres acres □ forage naryes management (NRCS 512) acres acres □ forage nar		conservation cover (NRCS 327)				acres
□ contour buffer strips (NRCS 332) acres □ contour farming (NRCS 330) acres □ cover crop (NRCS 340) acres □ cytical area planting (NRCS 342) 3/1/2023 acres □ deep tillage (NRCS 324) acres deep tillage (NRCS 324) acres □ diversion (NRCS 362) feet acres □ drainage water management (NRCS 554) acres □ feet of management (NRCS 592) animal units □ filed border (NRCS 382) §/1/2021 feet □ filed border (NRCS 383) acres □ filter strip (NRCS 383) acres □ filter strip (NRCS 383) acres □ forage and biomass planting (NRCS 512) acres □ forage harvest management (NRCS 511) acres □ forage harvest management (NRCS 511) acres □ fragation increase biodiversity (SQL08) acres □ heavy us a area protection (NRCS 551) 10/1/2021 □ intrigation water conveyance (NRCS 430) irrigation system, microirrigation (NRCS 443) □ irrigation system, surface and subsurface (NRCS 443) acres □ irrigation system, surface and subsurface (NRCS 443)		conservation crop rotation (NRCS 328)				acres
□ contour farming (NRCS 330) acres □ cover crop (NRCS 340) acres □ critical area planting (NRCS 342) 3/1/2023 acres □ deep tillage (NRCS 324) acres □ diversion (NRCS 362) feet □ drainage water management (NRCS 554) acres □ feed management (NRCS 592) animal units □ feed management (NRCS 386) acres □ field border (NRCS 386) acres □ filter strip (NRCS 386) acres □ forage and biomass planting (NRCS 512) acres □ forage and biomass planting (NRCS 512) acres □ forage harvest management (NRCS 511) acres □ forage harvest management (NRCS 561) 10/1/2021 □ forage harvest management (NRCS 561) 10/1/2021 □ feet micropoling to improve soil quality & increase blodiversity (SQL08) acres □ irrigation water conveyance (NRCS 430) feet □ irrigation water coveyance (NRCS 442) acres		continuous cover crops (SQL02)				acres
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□ deep tillage (NRCS 324) acres □ diversion (NRCS 362) feet □ drainage water management (NRCS 554) acres □ feed management (NRCS 92) animal units □ feet management (NRCS 386) feet □ filler strip (NRCS 386) acres □ filter strip (NRCS 393) acres □ forage and biomass planting (NRCS 512) acres □ forage harvest management (NRCS 511) acres □ grazing land mechanical treatment (NRCS 511) acres □ grazing land mechanical treatment (NRCS 511) acres □ feet intercropping to improve soil quality & increase biodiversity (SQL08) acres □ intrigation water conveyance (NRCS 430) acres □ irrigation reservoir (NRCS 436) gallons □ irrigation system, microirrigation (NRCS 441) acres □ irrigation system, sprinkler (NRCS 442) acres □ irrigation system, sprinkler (NRCS 449) acres □ irrigation water management (NRCS 449)		cover crop (NRCS 340)				acres
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□ drainage water management (NRCS 554) acres □ feed management (NRCS 592) animal units □ fence (NRCS 382) \$/1/2021 feet □ field border (NRCS 383) acres □ field border (NRCS 393) acres □ forage and blomass planting (NRCS 512) acres □ forage harvest management (NRCS 511) acres □ grazing land mechanical treatment (NRCS 545) acres □ heavy use area protection (NRCS 561) 10/1/2021 square feet □ intercropping to improve soil quality & intercropping to improve soil quality & intercropping to improve soil quality & intercase biodiversity (SQL08) acres □ irrigation water conveyance (NRCS 430) feet □ irrigation system, microirrigation (NRCS 441) acres □ irrigation system, microirrigation (NRCS 442) acres □ irrigation system, surface and subsurface (NRCS 449) acres □ irrigation water management (NRCS 449) acres □ lined waterway or outlet (NRCS 468) feet □ livestock shelter structure (NRCS 576) square feet		deep tillage (NRCS 324)		_		acres
□ feed management (NRCS 592) manimal units		diversion (NRCS 362)	1			feet
☑ fence (NRCS 382) \$9/1/2021 feet ☐ field border (NRCS 386) acres ☐ filter strip (NRCS 393) acres ☐ forage and biomass planting (NRCS 512) acres ☐ forage harvest management (NRCS 541) acres ☐ grazing land mechanical treatment (NRCS 548) acres ☑ heavy use area protection (NRCS 561) 10/1/2021 square feet ☑ intercropping to improve soil quality & increase biodiversity (SQL08) acres ☐ irrigation water conveyance (NRCS 430) feet ☐ irrigation reservoir (NRCS 436) gallons ☐ irrigation system, microirrigation (NRCS 441) acres ☐ irrigation system, sprinkler (NRCS 442) acres ☐ irrigation system, surface and subsurface acres ☐ (NRCS 443) acres ☐ irrigation water management (NRCS 449) acres ☐ illuestock shelter structure (NRCS 468) feet ☐ monitoring well (NRCS 535) quantity ☐ pasture & hayland management acres ☐ pipeline (NRCS 516) 8/1/2022 ☐ prescribed grazing (NRCS 528) 10/1/2021 acres ☐ residue and tillage		drainage water management (NRCS 554)				acres
☐ field border (NRCS 386) acres ☐ filter strip (NRCS 393) acres ☐ forage and biomass planting (NRCS 512) acres ☐ forage harvest management (NRCS 511) acres ☐ grazing land mechanical treatment (NRCS 541) acres ☑ prazing land mechanical treatment (NRCS 541) 10/1/2021 ☐ intercropping to improve soil quality & intercropping to improve soil quality & increase biodiversity (SQL08) acres ☐ irrigation water conveyance (NRCS 430) feet ☐ irrigation reservoir (NRCS 436) gallons ☐ irrigation system, microirrigation (NRCS 441) acres ☐ irrigation system, surface and subsurface (NRCS 443) acres ☐ irrigation water management (NRCS 442) acres ☐ irrigation water management (NRCS 449) acres ☐ irrigation water management (NRCS 448) feet ☐ illued waterway or outlet (NRCS 468) feet ☐ illued waterway or outlet (NRCS 576) squantity ☐ nutrient management (NRCS 590) acres ☐ pasture & hayland management acres ☐ pipeline (NRCS 516) 8/1/2022 feet ☐ prescribed grazing (NRCS 528) 10/1/2021 acres ☐ residue and tillage ma		feed management (NRCS 592)				animal units
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□ forage and biomass planting (NRCS 512) acres □ forage harvest management (NRCS 511) acres □ grazing land mechanical treatment (NRCS 548) acres ☑ heavy use area protection (NRCS 551) 10/1/2021 □ intercropping to improve soil quality & increase biodiversity (SQL08) acres □ irrigation water conveyance (NRCS 430) feet □ irrigation reservoir (NRCS 436) gallons □ irrigation system, microirrigation (NRCS 441) acres □ irrigation system, sprinkler (NRCS 442) acres □ irrigation system, surface and subsurface (NRCS 443) acres □ irrigation water management (NRCS 449) acres □ lined waterway or outlet (NRCS 468) feet □ livestock shelter structure (NRCS 576) square feet □ monitoring well (NRCS 535) quantity □ pasture & hayland management acres □ pipeline (NRCS 516) 8/1/2022 feet □ prescribed grazing (NRCS 528) 10/1/2021 acres □ prescribed grazing (NRCS 337) quantity □ silvopasture establishment (NRCS 574) 8/1/2022 quantity □ stormwater runoff control (NRCS 570) acres		field border (NRCS 386)				acres
□ forage harvest management (NRCS 511) acres □ grazing land mechanical treatment (NRCS 548) acres □ heavy use area protection (NRCS 561) 10/1/2021 square feet □ intercropping to improve soil quality & increase biodiversity (SQL08) acres □ irrigation water conveyance (NRCS 430) feet □ irrigation reservoir (NRCS 436) gallons □ irrigation system, microirrigation (NRCS 441) acres □ irrigation system, sprinkler (NRCS 442) acres □ irrigation system, surface and subsurface (NRCS 443) acres □ irrigation water management (NRCS 449) acres □ lined waterway or outlet (NRCS 448) feet □ livestock shelter structure (NRCS 576) square feet □ livestock shelter structure (NRCS 576) square feet □ monitoring well (NRCS 535) quantity □ nutrient management (NRCS 590) acres □ pipeline (NRCS 516) 8/1/2022 feet □ prescribed grazing (NRCS 528) 10/1/2021 acres □ residue and tillage		filter strip (NRCS 393)				acres
□ grazing land mechanical treatment (NRCS 548) acres □ heavy use area protection (NRCS 561) 10/1/2021 square feet □ intercropping to improve soil quality & increase biodiversity (SQL08) acres □ irrigation water conveyance (NRCS 430) feet □ irrigation reservoir (NRCS 436) gallons □ irrigation system, microirrigation (NRCS 441) acres □ irrigation system, sprinkler (NRCS 442) acres □ irrigation system, surface and subsurface (NRCS 449) acres □ irrigation water management (NRCS 449) acres □ lined waterway or outlet (NRCS 468) feet □ livestock shelter structure (NRCS 576) square feet □ monitoring well (NRCS 535) quantity □ nutrient management (NRCS 590) acres □ pasture & hayland management acres □ pipeline (NRCS 516) 8/1/2022 feet □ prescribed grazing (NRCS 528) 10/1/2021 acres □ residue and tillage management, no-till/strip till/direct seed (NRCS 367) quantity □		forage and biomass planting (NRCS 512)				acres
S48 Sequare Sequa		forage harvest management (NRCS 511)				acres
□ intercropping to improve soil quality & increase biodiversity (SQL08) acres □ irrigation water conveyance (NRCS 430) feet □ irrigation reservoir (NRCS 436) gallons □ irrigation system, microirrigation (NRCS 441) acres □ irrigation system, sprinkler (NRCS 442) acres □ irrigation system, surface and subsurface (NRCS 443) acres □ irrigation water management (NRCS 449) acres □ lined waterway or outlet (NRCS 468) feet □ livestock shelter structure (NRCS 576) square feet □ monitoring well (NRCS 535) quantity □ nutrient management (NRCS 590) acres □ pipeline (NRCS 516) 8/1/2022 □ prescribed grazing (NRCS 528) 10/1/2021 acres □ residue and tillage management, no-till/strip till/direct seed (NRCS 329) acres □ roofs and covers (NRCS 367) quantity □ silvopasture establishment (NRCS 574) 8/1/2022 quantity □ stormwater runoff control (NRCS 570) acres						acres
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□ irrigation reservoir (NRCS 436) gallons □ irrigation system, microirrigation (NRCS 441) acres □ irrigation system, surface and subsurface (NRCS 442) acres □ irrigation system, surface and subsurface (NRCS 443) acres □ irrigation water management (NRCS 449) acres □ lined waterway or outlet (NRCS 468) feet □ livestock shelter structure (NRCS 576) square feet □ monitoring well (NRCS 535) quantity □ nutrient management (NRCS 590) acres □ pasture & hayland management acres □ pipeline (NRCS 516) 8/1/2022 feet □ prescribed grazing (NRCS 528) 10/1/2021 acres □ residue and tillage management, no-till/strip till/direct seed (NRCS 329) acres □ roofs and covers (NRCS 367) quantity □ silvopasture establishment (NRCS 381) acres □ spring development (NRCS 574) 8/1/2022 quantity □ stormwater runoff control (NRCS 570) acres						acres
□ irrigation system, microirrigation (NRCS 441) acres □ irrigation system, sprinkler (NRCS 442) acres □ irrigation system, surface and subsurface (NRCS 443) acres □ irrigation water management (NRCS 449) acres □ lined waterway or outlet (NRCS 468) feet □ livestock shelter structure (NRCS 576) square feet □ monitoring well (NRCS 535) quantity □ nutrient management (NRCS 590) acres □ pasture & hayland management acres □ pipeline (NRCS 516) 8/1/2022 □ prescribed grazing (NRCS 528) 10/1/2021 □ residue and tillage management, no-till/strip till/direct seed (NRCS 329) acres □ roofs and covers (NRCS 367) quantity □ silvopasture establishment (NRCS 381) acres □ spring development (NRCS 574) 8/1/2022 quantity □ stormwater runoff control (NRCS 570) acres		irrigation water conveyance (NRCS 430)				feet
□ irrigation system, sprinkler (NRCS 442) acres □ irrigation system, surface and subsurface (NRCS 443) acres □ irrigation water management (NRCS 449) acres □ lined waterway or outlet (NRCS 468) feet □ livestock shelter structure (NRCS 576) square feet □ monitoring well (NRCS 535) quantity □ nutrient management (NRCS 590) acres □ pasture & hayland management acres ☑ pipeline (NRCS 516) 8/1/2022 ☑ prescribed grazing (NRCS 528) 10/1/2021 □ residue and tillage management, no-till/strip till/direct seed (NRCS 329) acres □ roofs and covers (NRCS 367) quantity □ silvopasture establishment (NRCS 381) acres ☑ spring development (NRCS 574) 8/1/2022 quantity □ stormwater runoff control (NRCS 570) acres		irrigation reservoir (NRCS 436)				gallons
□ irrigation system, surface and subsurface (NRCS 443) acres □ irrigation water management (NRCS 449) acres □ lined waterway or outlet (NRCS 468) feet □ livestock shelter structure (NRCS 576) square feet □ monitoring well (NRCS 535) quantity □ nutrient management (NRCS 590) acres □ pasture & hayland management acres □ pipeline (NRCS 516) 8/1/2022 feet □ prescribed grazing (NRCS 528) 10/1/2021 acres □ residue and tillage management, no-till/strip till/direct seed (NRCS 329) acres □ roofs and covers (NRCS 367) quantity □ silvopasture establishment (NRCS 381) acres □ spring development (NRCS 574) 8/1/2022 quantity □ stormwater runoff control (NRCS 570) acres		irrigation system, microirrigation (NRCS 441)				acres
□ irrigation water management (NRCS 449) acres □ lined waterway or outlet (NRCS 468) feet □ livestock shelter structure (NRCS 576) square feet □ monitoring well (NRCS 535) quantity □ nutrient management (NRCS 590) acres □ pasture & hayland management acres ☑ pipeline (NRCS 516) 8/1/2022 feet ☑ prescribed grazing (NRCS 528) 10/1/2021 acres □ residue and tillage management, no-till/strip till/direct seed (NRCS 329) acres □ roofs and covers (NRCS 367) quantity □ silvopasture establishment (NRCS 381) acres ☑ spring development (NRCS 574) 8/1/2022 quantity □ stormwater runoff control (NRCS 570) acres		irrigation system, sprinkler (NRCS 442)				acres
□ lined waterway or outlet (NRCS 468) feet □ livestock shelter structure (NRCS 576) square feet □ monitoring well (NRCS 535) quantity □ nutrient management (NRCS 590) acres □ pasture & hayland management acres ☑ pipeline (NRCS 516) 8/1/2022 ☑ prescribed grazing (NRCS 528) 10/1/2021 □ residue and tillage management, no-till/strip till/direct seed (NRCS 329) acres □ roofs and covers (NRCS 367) quantity □ silvopasture establishment (NRCS 381) acres ☑ spring development (NRCS 574) 8/1/2022 □ stormwater runoff control (NRCS 570) acres						acres
□ livestock shelter structure (NRCS 576) square feet □ monitoring well (NRCS 535) quantity □ nutrient management (NRCS 590) acres □ pasture & hayland management acres ☑ pipeline (NRCS 516) 8/1/2022 feet ☑ prescribed grazing (NRCS 528) 10/1/2021 acres □ residue and tillage management, no-till/strip till/direct seed (NRCS 329) acres □ roofs and covers (NRCS 367) quantity □ silvopasture establishment (NRCS 381) acres ☑ spring development (NRCS 574) 8/1/2022 quantity □ stormwater runoff control (NRCS 570) acres		irrigation water management (NRCS 449)				acres
□ monitoring well (NRCS 535) quantity □ nutrient management (NRCS 590) acres □ pasture & hayland management acres ☑ pipeline (NRCS 516) 8/1/2022 feet ☑ prescribed grazing (NRCS 528) 10/1/2021 acres □ residue and tillage management, no-till/strip till/direct seed (NRCS 329) acres □ roofs and covers (NRCS 367) quantity □ silvopasture establishment (NRCS 381) acres ☑ spring development (NRCS 574) 8/1/2022 quantity □ stormwater runoff control (NRCS 570) acres		lined waterway or outlet (NRCS 468)				feet
□ nutrient management (NRCS 590) acres □ pasture & hayland management acres ☑ pipeline (NRCS 516) 8/1/2022 feet ☑ prescribed grazing (NRCS 528) 10/1/2021 acres □ residue and tillage management, no-till/strip till/direct seed (NRCS 329) acres □ roofs and covers (NRCS 367) quantity □ silvopasture establishment (NRCS 381) acres ☑ spring development (NRCS 574) 8/1/2022 quantity □ stormwater runoff control (NRCS 570) acres		livestock shelter structure (NRCS 576)				square feet
□ pasture & hayland management acres ☑ pipeline (NRCS 516) 8/1/2022 feet ☑ prescribed grazing (NRCS 528) 10/1/2021 acres □ residue and tillage management, no-till/strip till/direct seed (NRCS 329) acres □ roofs and covers (NRCS 367) quantity □ silvopasture establishment (NRCS 381) acres ☑ spring development (NRCS 574) 8/1/2022 quantity □ stormwater runoff control (NRCS 570) acres		monitoring well (NRCS 535)				quantity
☑ pipeline (NRCS 516) 8/1/2022 feet ☑ prescribed grazing (NRCS 528) 10/1/2021 acres ☐ residue and tillage management, no-till/strip till/direct seed (NRCS 329) acres ☐ roofs and covers (NRCS 367) quantity ☐ silvopasture establishment (NRCS 381) acres ☒ spring development (NRCS 574) 8/1/2022 quantity ☐ stormwater runoff control (NRCS 570) acres		nutrient management (NRCS 590)				acres
☑ prescribed grazing (NRCS 528) 10/1/2021 acres ☐ residue and tillage management, no-till/strip till/direct seed (NRCS 329) acres ☐ roofs and covers (NRCS 367) quantity ☐ silvopasture establishment (NRCS 381) acres ☒ spring development (NRCS 574) 8/1/2022 quantity ☐ stormwater runoff control (NRCS 570) acres		pasture & hayland management				acres
residue and tillage management, no-till/strip till/direct seed (NRCS 329) roofs and covers (NRCS 367) silvopasture establishment (NRCS 381) spring development (NRCS 574) stormwater runoff control (NRCS 570) acres	\boxtimes	pipeline (NRCS 516)	8/1/2022			feet
till/direct seed (NRCS 329) roofs and covers (NRCS 367) silvopasture establishment (NRCS 381) spring development (NRCS 574) stormwater runoff control (NRCS 570) acres acres	\boxtimes	prescribed grazing (NRCS 528)	10/1/2021			acres
□ silvopasture establishment (NRCS 381) acres □ spring development (NRCS 574) 8/1/2022 quantity □ stormwater runoff control (NRCS 570) acres						acres
☑ spring development (NRCS 574) 8/1/2022 quantity □ stormwater runoff control (NRCS 570) acres		roofs and covers (NRCS 367)				quantity
□ stormwater runoff control (NRCS 570) acres		silvopasture establishment (NRCS 381)				acres
	\boxtimes	spring development (NRCS 574)	8/1/2022			quantity
☑ stream crossing (NRCS 578) 9/1/2021 quantity		stormwater runoff control (NRCS 570)				acres
		stream crossing (NRCS 578)	9/1/2021			quantity

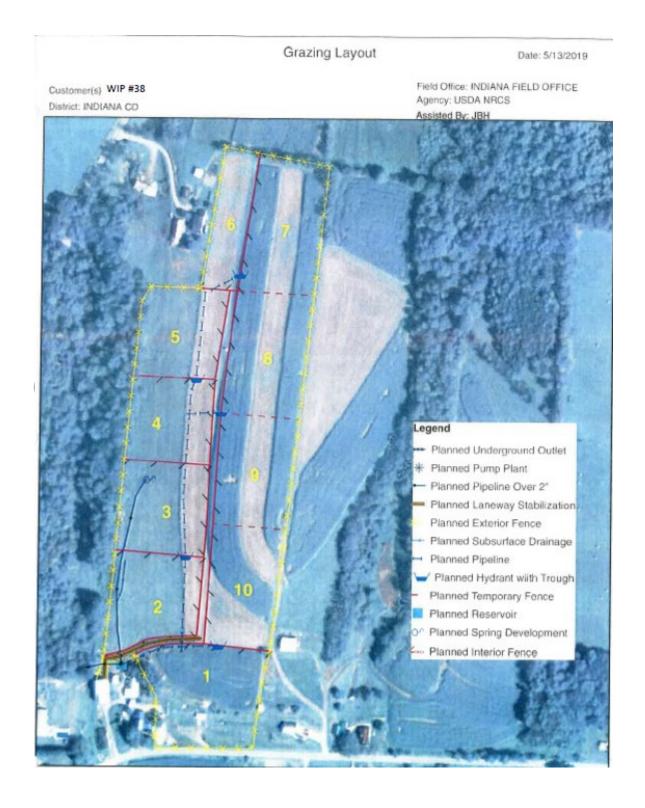
	stripcropping (NRCS 585)				acres
	structure for water control (NRCS 587)				quantity
\boxtimes	subsurface drain (NRCS 606)	8/1/2022			feet
	surface drain, field ditch (NRCS 607)				feet
	terrace (NRCS 600)				feet
	trails and walkways (NRCS 575)	9/1/2021			feet
	transition to organic cropping systems (WQL20)				acres
	transition to organic grazing systems (WQL19)				acres
	waste storage facility (NRCS 313)				quantity
	waste transfer (NRCS 634)				quantity
	waste treatment lagoon (NRCS 359)				quantity
	waste utilization (NRCS 633)				quantity
	water and sediment control basin (NRCS 638)				acres
	water well (NRCS 642)				quantity
	water well decommissioning (NRCS 351)				quantity
\boxtimes	watering facility (NRCS 614)	8/1/2022			quantity
	Stormwater Practices	Planned On (date)	Implemented On (date)	Implemented Amount	Implemented Units of Measure
	catch basin vacuum truck or unit				quantity
	constructed wetland (NRCS 656), ☐ subtype aerobic				acres
	constructed wetland (NRCS 656), ☐ subtype anaerobic				acres
	dry extended detention basin				acres
	impervious surface removal				square feet
	infiltration basin				acres
					40165
	planter boxes				quantity
	planter boxes pervious pavement				
					quantity
	pervious pavement				quantity square feet
	pervious pavement rain garden/bio-retention				quantity square feet square feet
	pervious pavement rain garden/bio-retention rooftop disconnection				quantity square feet square feet acres
	pervious pavement rain garden/bio-retention rooftop disconnection sediment basin (NRCS 350) sediment fore bay street sweeping				quantity square feet square feet acres quantity
	pervious pavement rain garden/bio-retention rooftop disconnection sediment basin (NRCS 350) sediment fore bay street sweeping subsurface infiltration bed				quantity square feet square feet acres quantity square feet
	pervious pavement rain garden/bio-retention rooftop disconnection sediment basin (NRCS 350) sediment fore bay street sweeping				quantity square feet square feet acres quantity square feet square feet
	pervious pavement rain garden/bio-retention rooftop disconnection sediment basin (NRCS 350) sediment fore bay street sweeping subsurface infiltration bed				quantity square feet square feet acres quantity square feet square feet acres
	pervious pavement rain garden/bio-retention rooftop disconnection sediment basin (NRCS 350) sediment fore bay street sweeping subsurface infiltration bed vegetated roof				quantity square feet square feet acres quantity square feet square feet acres square feet feet quantity
	pervious pavement rain garden/bio-retention rooftop disconnection sediment basin (NRCS 350) sediment fore bay street sweeping subsurface infiltration bed vegetated roof vegetated swale	Planned On (date)	Implemented On (date)	Implemented Amount	quantity square feet square feet acres quantity square feet square feet acres square feet quantity Implemented Units of
	pervious pavement rain garden/bio-retention rooftop disconnection sediment basin (NRCS 350) sediment fore bay street sweeping subsurface infiltration bed vegetated roof vegetated swale water quality inserts/inlets		The second secon		quantity square feet square feet acres quantity square feet square feet acres square feet quantity Implemented
	pervious pavement rain garden/bio-retention rooftop disconnection sediment basin (NRCS 350) sediment fore bay street sweeping subsurface infiltration bed vegetated roof vegetated swale water quality inserts/inlets Streams/Lakes/Ponds Practices		The second secon		quantity square feet square feet acres quantity square feet square feet acres square feet quantity Implemented Units of Measure
	pervious pavement rain garden/bio-retention rooftop disconnection sediment basin (NRCS 350) sediment fore bay street sweeping subsurface infiltration bed vegetated roof vegetated swale water quality inserts/inlets Streams/Lakes/Ponds Practices channel bed stabilization (NRCS 584)		The second secon		quantity square feet square feet acres quantity square feet square feet acres square feet quantity Implemented Units of Measure feet
	pervious pavement rain garden/bio-retention rooftop disconnection sediment basin (NRCS 350) sediment fore bay street sweeping subsurface infiltration bed vegetated roof vegetated swale water quality inserts/inlets Streams/Lakes/Ponds Practices channel bed stabilization (NRCS 584) channel floodplain restoration		The second secon		quantity square feet square feet acres quantity square feet square feet acres square feet quare feet feet quantity Implemented Units of Measure feet feet

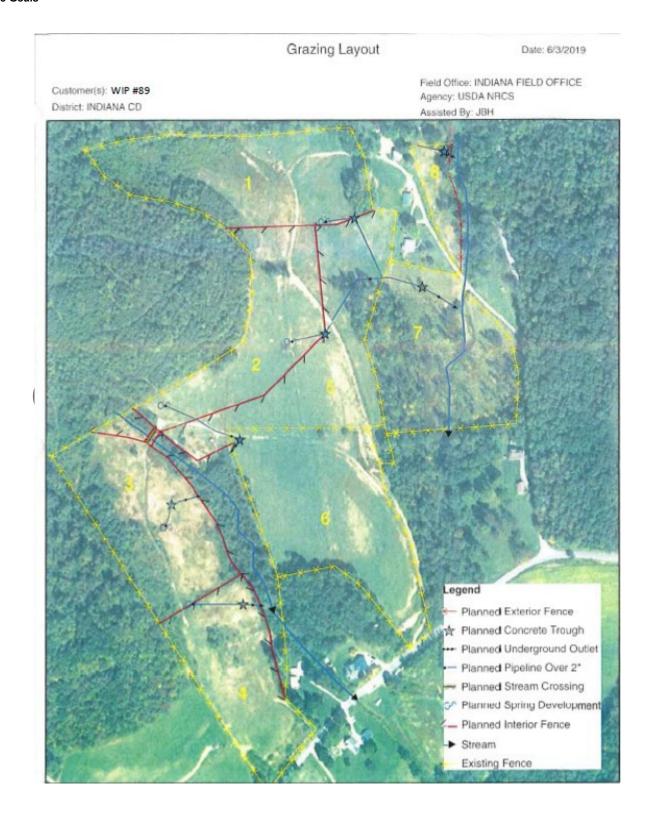
	fish passage (NRCS 396)				quantity
	in-lake alum treatment				acres
	lake aeration				acres
	pond (NRCS 378)				acres
	pond sealing or lining, flexible membrane (NRCS 521A)				square feet
	riparian forest buffer (NRCS 391)				acres
	riparian herbaceous cover (NRCS 390)				acres
\boxtimes	streambank and shoreline protection (NRCS 580)	6/30/2023			feet
	Wetland Practices	Planned On (date)	Implemented On (date)	Implemented Amount	Implemented Units of Measure
	wetland acquisition for protection				acres
	wetland creation (NRCS 658)				acres
	wetland enhancement (NRCS 659)				acres
	wetland restoration (NRCS 657)				acres
	wetland wildlife habitat management (NRCS 644)				acres
	Forestry Practices	Planned On (date)	Implemented On (date)	Implemented Amount	Implemented Units of Measure
	forest stand improvement (NRCS 666)				acres
	forest trails and landings (NRCS 655)				acres
	prescribed burning (NRCS 338)				acres
	Miscellaneous Practices	Planned On (date)	Implemented On (date)	Implemented Amount	Implemented Units of Measure
	dirt/gravel road maintenance				feet
	grade stabilization structure (NRCS 410)				quantity
	grassed waterway (NRCS 412)				acres
	hedgerow planting (NRCS 422)				feet
	integrated pest management (NRCS 595)				acres
	invasive species removal				square feet
	land reclamation, landslide treatment (NRCS 453)				acres
1				ı	i
	land reclamation, toxic discharge control (NRCS 455)				acres
					acres acres
	(NRCS 455) mulching (NRCS 484) pumping plant (NRCS 533)	8/1/2022			
	(NRCS 455) mulching (NRCS 484)	8/1/2022			acres
	(NRCS 455) mulching (NRCS 484) pumping plant (NRCS 533) restoration and management of rare or	8/1/2022			acres quantity
	(NRCS 455) mulching (NRCS 484) pumping plant (NRCS 533) restoration and management of rare or declining habitats	8/1/2022			acres quantity quantity

ACCOMPLISHMENTS ONLY (Post-Grant Completion) What differed between the final approved workplan and what was finally accomplished for this project? (eg. Clarify any amendments, project changes, deliverables.) Best Management Practices (Implementation projects only): If applicable, please explain why Installed BMPs were different than what was stated in the final approved work plan. **Deliverables:** Deliverables planned in the final approved Date deliverable workplan **Deliverables submitted to PADEP** was submitted to (Add additional rows if needed.) **PADEP** If applicable, please explain why the deliverables that were submitted to PADEP were different than what was committed to in the final approved workplan.









WIP Site 51A

