Project Information

Grant #: **00350015** Region: 03 State: WV Appropriation Year: 2015 Project #: 07

General Information

50/50 Funding Split: **Watershed Project Funds**

Project Title: **Piney Creek Barren Land Restoration**

State Project Number: **NPS1535**

Subgrantee(s): **PINEY CREEK WATERSHED ASSOCIATION** ☐ This Project Does Not Have a Subgrantee

Description: **Overview**
The proposed project will include reclamation and stormwater management BMPs. By addressing the erosion, an iron reduction is expected. Installation of grassy swales, check dams and level spreaders will reduce the sediment load leaving the area and stabilize the site for the additional phases. In addition to the reclamation activities: a walking trail with informational kiosks, butterfly garden and dog park are part of Phase 1 of this project. The location of this site is highly visible and has many visitors each year. [YMCA Paul Cline Soccer Complex, located at: lat 37.782424, long -81.142207]

Objectives
The goal of this project is to reduce the amount of sediment and therefore iron that reaches Piney Creek, and ultimately the New River. By using a variety of techniques to reduce the erosion and slow the transport of sediment leaving the site our projected load reduction for sediment is 27.18 ton/acre/year for the reclaimed areas. Initial sampling will allow for iron reduction calculations based on iron concentrations in the soil.

Methods
Monitoring will take place initially to establish the concentration of iron in the soils. Two samples will be taken in the two acre area and sent to a DEP approved lab.

Reclamation will include the use of heavy equipment, the creation of five grassy swales, 12 check dams, two level spreaders, and the application of lime, seed and mulch to stabilize the site. During the construction phase, stormwater permits with the City of Beckley and the WV DEP will be obtained and an Erosion and Sediment Control Plan will be established and implemented.

A butterfly garden and walking trails around the area will provide hands-on educational opportunities to learn about metamorphosis, butterfly food preferences and habitat needs, as well as migration patterns. Students and adults will learn about growing and caring for a variety of plants. The garden will contribute to the aesthetic appeal of the area.

Statewide: **N** This Project Will / Did Result in Pollutant Load Reductions: **Y**

Project Manager: **49526** Phone: 304-228-1680

State Project Manager: **31907** Phone: **304-926-0499**

Status of TMDL for Waterbody/Watershed: **Implementing a TMDL**

51% or More of Project Budget Used to Protect Unimpaired / High Quality Waterbodies: **N**

Budget

Grant Summary

Total 319 Grant Funds:	Total 319(h) Funds for all Projects:	**Grant Funds Remaining:**
$1,637,009	- **$1,627,009**	= **$10,000**

Project Budget

Appropriation Year: **2015**

Project budget includes **3**

319(h) Federal Funds: **$20,145**

EPA Other: **$0**

Other Federal: **$0**

State Funds: **$0**

State In-Kind: **$0**

Local Funds: **$13,800**

Local In-Kind: **$0**

Other Funds: **$0**

Total Budget: $33,945

Comments:

Work Categories *

Category of Work	Primary
BMP Design/Implementation	Y
Local (Specific Target) Education/Information Programs	N
Program Development Activities	N
Other Water Quality Assessment /Monitoring ()	N
Grade Stabilization	N
Erosion Control Projects	N

Quality Assurance Project Plan

Does the Project require a Quality Assurance Project Plan (•) **Yes** ( ) No

Sources of NPS Pollution *

Category Type	Secondary	Percent (%)
Urban Runoff/Stormwater	Post-Development Erosion and Sedimentation	100
		100

Key Partners

Organization Type	Partner Name	Partner Contribution	Description of Role/Notes
County/Municipal Agencies	BECKLEY SANITARY BOARD	$0	
Private land holders	YMCA	$0	
SWCs	SOUTHERN CONSERVATION DISTRICT	$0	
		$0	

Related Projects

No Related Projects found.

Attachments

Attachment Name	File Size	Document Type
YMCA proposal.docx	1,670.7KB	Work Plan

Planning

Watershed Plans *

Status	Plan Name	Attachment
-	*Piney Creek	-

Project Status

Status Type	Current Status	Status Date	Comment	Editor	Edited Date
Current	Accepted by EPA	08/01/2019	-	LESSENTH	08/22/2019
History	Completed	08/01/2019	-	TCRADDOC	08/14/2019
History	On Schedule	-	-	TCRADDOC	08/08/2017
History	Behind Schedule	11/01/2016	-	TCRADDOC	12/19/2016
History	Behind Schedule	11/01/2016	-	TCRADDOC	12/19/2016
History	On Schedule	06/08/2016	-	TCRADDOC	06/08/2016
History	On Schedule	09/30/2015	-	TCRADDOC	12/18/2015
History	Pending	10/24/2014	-	TCRADDOC	10/24/2014

Schedule *

Project Start Date: **11/30/2015**

Project End Date: **08/01/2019**

Comments:

Waterbody Information

No Waterbodies found.

Pollutants to be Addressed

No Pollutants to be Addressed found.

Planned Activities

No Planned Activities found.

Tasks

No Tasks found.

Project Evaluations

Evaluation	Evaluation Type	Reporting From	Reporting To	Creation Date	Attachments
Final report attached.	Final	04/01/2019	09/30/2019	08/14/2019	NPS1535_Final Report.pdf
The project is 90% complete. The drainage problems have been corrected and the site is revegetated. All state construction permits have been satisfied and closed. The remaining work, signs and educational trail, should be complete by September 2018.	Semi-Annual	10/01/2017	03/31/2018	06/29/2018	-
The project is nearly complete. Drainage problems have been addressed and the site is vegetated. All permits have been satisfied and closed. Remaining work includes signage and educational trails, which should be completed in spring 2018.	Semi-Annual	04/01/2017	09/30/2017	02/15/2018	-
The project remains behind schedule but should be completed within the required time frame. The project is in the construction phase and is about 75% complete. The wet weather in the area throughout the winter delayed the contractor's work on the project. PCWA has spent or 38% for the design, permit requests, and construction oversight. The Southern Conservation District has not provided their information on the matching funds they have expended since work is ongoing.	Semi-Annual	10/01/2016	03/30/2017	08/08/2017	-
The project is behind schedule as of October 2016 but construction is set to begin before the end of this reporting period. The project is currently 25% complete; the Design Phase is complete and construction is ready to begin. The delays through the summer were caused as PCWA worked through design and permit issues with the design firm. The floods in southern WV also caused the delay of the project as the contracted construction crew from the WV Southern Conservation District (SCD) was called out to assist with flood relief efforts. Note: This project was a site visit during the 2016 EPA tour.	Semi-Annual	04/01/2016	09/30/2016	-	-
The association conducted soil sampling to determine the condition of the site and provided the results to WVDEP. The Executive Director conducted a site survey and provided the results to WVDEP, the association Board of Directors, and other stakeholders (YMCA of Southern West Virginia) to inform them of the scope of the issues at the location. Members of the association then met with the stakeholders and conducted several site visits to get stakeholder input to the project. After getting the input, the Executive Director met with Alliance Consulting (Braden Hoffman-Senior Project Manager) and asked them to do the design for the project. While the design phase is ongoing, the association began removing debris from the site. Members of the association collected approximately 50 tires from the site which were later removed by WVDEP (REAP). The association also coordinated with the YMCA and other individuals who were storing items at the site to consolidate or remove their items so the project can commence.	Semi-Annual	10/01/2015	03/31/2016	-	-
The sub-grant award was signed Nov. 2015. There was some delays due to verification of the watershed groups procurement procedures. There is no progress to report on the project.	Semi-Annual	04/01/2015	09/30/2015	-	-
WVDEP recieved the full award in mid-May. The paperwork for this sub-grant award will be processed and delivered soon.	Semi-Annual	10/01/2014	03/31/2015	-	-

Environmental Results

Drainage Areas

Drainage number	Drainage area	Bmps	Pollutants
1	WVKN-26	Check Dam, Grassed Swale, Land Reclamation, Seeding (Re- Vegetation)	Metals (Iron), Sedimentation-Siltation

Drainage Area Pollutants

Drainage Area Name	Pollutant	Load Reduction Amount	Unit of Measure	Load Reduction Date	Round	Model	Comments
01-WVKN-26	Sedimentation-Siltation	.25	TONS/YR	01-AUG-19	1	Monitoring	-
01-WVKN-26	Metals (Iron)	11.5	LBS/YR	01-AUG-19	1	Monitoring	-

Best Management Practices

BMP Type	Number Installed	Units of Measure	Implementation Date	Drainage Area Name	BMP cost	Comments
Check Dam	12	UNITS	30-SEP-17	01-WVKN-26	-	-
Grassed Swale	5	UNITS	30-JUN-17	01-WVKN-26	-	-
Land Reclamation	3	AC	30-JUN-17	01-WVKN-26	-	-
Seeding (Re- Vegetation)	3	AC	30-SEP-17	01-WVKN-26	-	-

Ecoregions

No ecoregions found.

Counties

County Name	State
RALEIGH	WV

Project Information

Grant #:

00350016

Region:

03

State:

WV

Appropriation Year:

2016

Project #:

11

General Information *

* 50/50 Funding Split:

Watershed Project Funds

* Project Title:

Second Creek Karst II

State Project Number:

NPS1587

* Subgrantee(s):

WEST VIRGINIA CONSERVATION AGENCY

☐ This Project Does Not Have a Subgrantee

* Description:

Overview
Second Creek in Monroe and Greenbrier Counties of West Virginia is a large tributary of the Greenbrier River. This stream is heavily impacted by cattle and other livestock feeding on karst geology and in close proximity to karst windows and open sink holes. Agriculture in this area consists primarily of beef cattle operations.

Objectives
The primary goal of this project will be to reduce fecal coliform loads by 1.56E+14 Counts/year in order to bring it within allowable levels. This goal will be accomplished by precision soil sampling to develop nutrient maps, and nutrient management/grazing and winter feeding plans. These maps will allow a farmer to see where the nutrient "hot spots" are on the farm and alter their management practices to distribute these nutrients throughout their grazing land.

Methods
Best Management Practices (BMPs) will include prescribed grazing, nutrient management, and livestock alternative water development and pasture division fencing. Alternative water development and division fencing will be used to enact the prescribed grazing plans. Nutrient management will consist of precision soil sampling and nutrient mapping of the farms to determine if there is a need for land management changes such as feeding and grazing practices.

* Statewide:

N

* This Project Will / Did Result in Pollutant Load Reductions:

Y

Project Manager:

31988

Phone:

304-645-6172

State Project Manager:

31907

Phone:

304-926-0499

* Status of TMDL for Waterbody/Watershed:

Implementing a TMDL

* 51% or More of Project Budget Used to Protect Unimpaired / High Quality Waterbodies:

N

Budget *

Grant Summary

Total 319 Grant Funds:

$1,733,343

Total 319(h) Funds for all Projects:

- **$1,711,343**

Grant Funds Remaining:

= **$22,000**

Project Budget *

Appropriation Year:

2016

* Project budget includes

3

* 319(h) Federal Funds:

$127,600

* EPA Other:

$0

* Other Federal:

$0

* State Funds:

$85,568

* State In-Kind:

* Local Funds:

* Local In-Kind:

$0

* Other Funds:

Total Budget:

$213,168

Comments:

Work Categories *

Category of Work	Primary
BMP Design/Implementation	Y

Sources of NPS Pollution *

Category Type	Secondary	Percent (%)
Agriculture		100
		100

Key Partners

No Key Partners found.

Related Projects

No Related Projects found.

Attachments

No Attachments found.

Planning

Watershed Plans *

No Watershed Plans found.

Project Status

Status Type	Current Status	Status Date	Comment	Editor	Edited Date
Current	Completed	11/01/2019	-	TCRADDOC	11/07/2019
History	Behind Schedule	-	-	TCRADDOC	01/11/2019
History	On Schedule	11/15/2018	-	TCRADDOC	01/30/2018
History	Ahead of Schedule	06/01/2017	-	TCRADDOC	08/08/2017
History	On Schedule	11/01/2016	-	TCRADDOC	12/20/2016
History	On Schedule	11/01/2016	-	TCRADDOC	12/20/2016
History	Pending	03/21/2016	-	TCRADDOC	03/21/2016

Schedule *

Project Start Date:

08/09/2016

Project End Date:

11/01/2019

Comments:

Award signed 8/9/16

Waterbody Information

	Edit	Name	Type	ATTAINS ID	Size	Units
☐	✎	SECOND CK	Stream/Creek/River	WVKNG-23_00	23.7	MILES

1 - 1

Pollutants to be Addressed

No Pollutants to be Addressed found.

Planned Activities

No Planned Activities found.

Tasks

No Tasks found.

Project Evaluations

Evaluation	Evaluation Type	Reporting From	Reporting To	Creation Date	Attachments
Project complete. Final report attached.	Final	04/01/2019	09/30/2019	11/07/2019	WVCA_SecondCreekKarstFinalReport.pdf
Preliminary planning with contractors and landowners to implement planned BMPs is underway. There has been no movement on the project since the last reporting period.	Semi-Annual	04/01/2018	09/30/2018	10/01/2018	-
The West Virginia Conservation Agency is continuing to work with landowners who have existing contracts. All funding has been allocated and WVCA is currently trying to find willing contractors who will install the practices. This project is still on track to be completed on time.	Semi-Annual	10/01/2017	03/31/2018	07/02/2018	-
The project is on-schedule. Currently three contracts have been signed and are in progress and two additional plans are in development.	Semi-Annual	04/01/2017	09/30/2017	01/30/2018	-

Evaluation	Evaluation Type	Reporting From	Reporting To	Creation Date	Attachments
The project is on track to be completed prior to the performance deadline. Multiple contracts have been signed and are scheduled for construction by late summer 2017.	Semi-Annual	10/01/2016	03/30/2017	08/08/2017	-
No progress to report; however, statewide BMPs from WVCA's Ag Enhancement Programs have been implemented in the Upper Second Creek watershed.	Semi-Annual	04/01/2016	09/30/2016	-	-

Environmental Results

Drainage Areas *

Drainage number	Drainage area	Bmps	Pollutants
1	Upper Second Creek	Alternative Water Sources, Fence, Heavy Use Area Protection, Irrigation Pipeline, Pumping Plant, Water Well	Nitrogen, Pathogens (Coliform), Phosphorus, Sedimentation-Siltation

Drainage Area Pollutants *

Drainage Area Name	Pollutant	Load Reduction Amount	Unit of Measure	Load Reduction Date	Round	Model	Comments
01-Upper Second Creek	Nitrogen	689	LBS/YR	30-SEP-17	1	No model was used, N/A	-
01-Upper Second Creek	Nitrogen	8350	LBS/YR	30-MAR-18	2	WVCA	-
01-Upper Second Creek	Pathogens (Coliform)	3160000000000	CFU	30-SEP-17	2	No model was used, N/A	-
01-Upper Second Creek	Pathogens (Coliform)	4370000000000	CFU	30-MAR-18	1	WVCA	-
01-Upper Second Creek	Sedimentation-Siltation	70.9	TONS/YR	30-MAR-18	2	WVCA	-
01-Upper Second Creek	Phosphorus	301	LBS/YR	30-SEP-17	1	No model was used, N/A	-
01-Upper Second Creek	Phosphorus	1896	LBS/YR	30-MAR-18	2	WVCA	-
01-Upper Second Creek	Sedimentation-Siltation	318	TONS/YR	30-SEP-17	1	No model was used, N/A	-
01-Upper Second Creek	Pathogens (Coliform)	1180000000000	CFU	01-MAR-17	1	NA	-

Best Management Practices *

BMP Type	Number Installed	Units of Measure	Implementation Date	Drainage Area Name	BMP cost	Comments
Alternative Water Sources	10	UNITS	30-SEP-20	-	-	-
Alternative Water Sources	9	UNITS	30-MAR-18	01-Upper Second Creek	-	-
Fence	50000	FT	30-SEP-20	-	-	-
Fence	7648	FT	01-MAR-17	01-Upper Second Creek	-	-
Fence	820	FT	30-SEP-17	01-Upper Second Creek	-	-
Grazing Planned Systems	16	UNITS	30-SEP-20	-	-	-
Heavy Use Area Protection	4275	SQUARE FEET	30-MAR-18	01-Upper Second Creek	-	-
Irrigation Pipeline	4308	FT	30-MAR-18	01-Upper Second Creek	-	-
Nutrient Management	16	UNITS	30-SEP-20	-	-	-
Pumping Plant	2	UNITS	30-MAR-18	01-Upper Second Creek	-	-
Water Well	2	UNITS	30-MAR-18	01-Upper Second Creek	-	-

1 - 11

Ecoregions

No ecoregions found.

Counties

No counties found.

Project Information

Grant #:

00350018

Region:

03

State:

WV

Appropriation Year:

2018

Project #:

12

General Information *

* 50/50 Funding Split:

Watershed Project Funds

* Project Title:

Second Creek - Tall Hickory Farms

State Project Number:

NPS1686

* Subgrantee(s):

WEST VIRGINIA CONSERVATION AGENCY

☐ This Project Does Not Have a Subgrantee

* Description:

Overview
Second Creek in Greenbrier and Monroe Counties of West Virginia is a large tributary of the Greenbrier River (HUC-8: 05050003). This stream is heavily impacted by cattle and other livestock feeding on the karst geology, near karst windows, and open sink holes. Beef cattle operations and some dairy operations exist in this area.

Objectives
The goal of this project is to improve the water quality in Second Creek by evenly distribute grazing, improve manure management, and nutrient management capabilities, and limit the amount of nutrient rich runoff. WVCA estimates that soil erosion can be reduced by 6.44 tons/year on this project by proper pasture rotation and elimination of cattle being held in 3 main dirt lots. Total fecal coliform load reductions from this project are expected to be 8.89E+12 counts/year.

Methods
BMP's will include prescribed grazing, nutrient management, and heavy use area protection. Existing pasture division fences and alternative watering facilities will be utilized for the prescribed grazing plan. Nutrient management efforts will entail soils sampling, nutrient mapping, manure management, and proper nutrient application. Efforts to reduce nutrient and fecal coliform laden runoff entering the karst area will be addressed by installing a roofed feeding shed. The roofed feeding shed will allow the producer to better manage winter feeding and allow for a clean environment for incoming livestock by providing a roofed structure to feed under and store all manure produced to applied to crop fields or hauled out of the watershed.

* Statewide:

N

* This Project Will / Did Result in Pollutant Load Reductions:

Y

Project Manager:

52808

Phone:

304-539-2202

State Project Manager:

25286

Phone:

304-558-2204

* Status of TMDL for Waterbody/Watershed:

Implementing a TMDL

* 51% or More of Project Budget Used to Protect Unimpaired / High Quality Waterbodies:

N

Budget *

Grant Summary

Total 319 Grant Funds:

$1,850,542

Total 319(h) Funds for all Projects:

\- **$1,860,542**

Grant Funds Remaining:

= **-$10,000**

Project Budget *

Appropriation Year:

2018

* Project budget includes

3

* 319(h) Federal Funds:

$100,000

* EPA Other:

$0

* Other Federal:

$0

* State Funds:

$0

* State In-Kind:

$66,667

* Local Funds:

$0

* Local In-Kind:

$0

* Other Funds:

$0

Total Budget:

$166,667

Comments:

Work Categories *

Category of Work	Primary
BMP Implementation	Y
Education/Information	N
BMP Effectiveness Monitoring	N
BMP Design	N

Quality Assurance Project Plan

Does the Project require a Quality Assurance Project Plan

(•) **Yes** ( ) No

Sources of NPS Pollution *

Category Type	Secondary	Percent (%)
Agriculture		100
		100

Key Partners

No Key Partners found.

Related Projects

No Related Projects found.

Attachments

Attachment Name	File Size	Document Type
WVCA_TallHickorySecondCreekFY18319.pdf	645.2KB	Work Plan

Planning

Watershed Plans *

Status	Plan Name	Attachment
Implementing a Watershed Based Plan	*Second Creek Watershed	-

Project Status

Status Type	Current Status	Status Date	Comment	Editor	Edited Date
Current	On Schedule	-	-	TCRADDOC	01/29/2019

Schedule *

Project Start Date:

08/17/2018

Project End Date:

06/30/2022

Comments:

Award signed 08/17/18

Waterbody Information

	Edit	Name	Type	ATTAINS ID	Size	Units
		SECOND CK	Stream/Creek/River	WVKNG-23_00	23.7	MILES

1 - 1

Pollutants to be Addressed

Pollutant	Load Reduction Goal (Numeric, Total for ENTIRE Project)	Units
Pathogens (Coliform)		UNITS
Sedimentation-Siltation		TONS/YR

1 - 2

Planned Activities

BMP Type	Quantity Planned	Units of Measure
Heavy Use Area Protection		N/A
Manure (Waste) Transfer		UNITS
Nutrient Management		AC
Prescribed Grazing		AC

Tasks

No Tasks found.

Project Evaluations

Evaluation	Evaluation Type	Reporting From	Reporting To	Creation Date	Attachments
This project is still in the preliminary planning stage.	Semi-Annual	04/01/2018	09/30/2018	01/29/2019	-

Environmental Results

Drainage Areas *

Drainage number	Drainage area	Bmps	Pollutants
1	Lower Second Creek (050500030703)	Manure (Waste) Transfer, Nutrient Management, Prescribed Grazing	Pathogens (Coliform), Sedimentation-Siltation

Drainage Area Pollutants *

Drainage Area Name	Pollutant	Load Reduction Amount	Unit of Measure	Load Reduction Date	Round	Model	Comments
01-Lower Second Creek (050500030703)	Sedimentation-Siltation	-	TONS/YR	-	1	WVCA	-
01-Lower Second Creek (050500030703)	Pathogens (Coliform)	-	UNITS	-	1	WVCA	-

Best Management Practices *

BMP Type	Number Installed	Units of Measure	Implementation Date	Drainage Area Name	BMP cost	Comments
Manure (Waste) Transfer	-	UNITS	-	01-Lower Second Creek (050500030703)	-	-
Nutrient Management	-	AC	-	01-Lower Second Creek (050500030703)	-	-
Prescribed Grazing	-	AC	-	01-Lower Second Creek (050500030703)	-	-

1 - 3

Ecoregions

Ecoregion
Central Appalachians
Ridge and Valley

Counties

County Name	State
GREENBRIER	WV
MONROE	WV

Project Information

Grant #:

00350018

Region:

03

State:

WV

Appropriation Year:

2018

Project #:

10

General Information *

* 50/50 Funding Split:

Watershed Project Funds

* Project Title:

Upper Indian Creek

State Project Number:

NPS1650

* Subgrantee(s):

WEST VIRGINIA CONSERVATION AGENCY

☐ This Project Does Not Have a Subgrantee

* Description:

Overview
Indian Creek in Monroe County of West Virginia is a large tributary of the New River. This stream is heavily impacted by cattle and other livestock feeding on karst geology and near karst windows and open sink holes. Agriculture in this area consists primarily of beef cattle and sheep operations with limited dairy production. The goal of this project is to evenly distribute grazing throughout the karst area, spreading nutrients and bacteria laden waste in a manner that will reduce concentrated runoff and infiltration; and rehabilitate failing septic systems contributing to the bacteria load. Best Management Practices (BMPs) will include prescribed grazing, nutrient management, livestock water development, pasture division fencing and failing septic system rehabilitation. Alternative water development and division fencing will be used to enact the prescribed grazing plans. Nutrient management will consist of precision soil sampling and nutrient mapping of the farms to determine if there is a need for land management changes such as feeding and grazing practices. These nutrient maps will indicate where the "hot spots" of potential runoff are on the farm per current practices and allow the farmers to alter their current practices, then alter those practices to prevent excess runoff and achieve a total load reduction of 1.0401E+13.

Objectives
The primary goal of this project in these select portions of the Upper Indian Creek Watershed will be to reduce fecal coliform loads by 1.0401E+13Counts/year to bring it within allowable levels. This goal will primarily be accomplished by precision soil sampling to develop nutrient maps, and nutrient management/grazing and winter feeding plans.

Methods
These plans will allow a farmer to see where the nutrient "hot spots" are on the farm and alter their management practices to distribute these nutrients throughout their grazing land. Additionally, they will allow for variable rate nutrient application for areas that are lacking adequate nutrients for forage production. Prescribed grazing will be utilized to aid the farmer in altering his management practices by installing pasture division fences; enacting a grazing schedule and determining appropriate stocking rates. Water development will also be used to facilitate these more appropriate grazing practices.

* Statewide:

N

* This Project Will / Did Result in Pollutant Load Reductions:

Y

Project Manager:

31988

Phone:

304-645-6172

State Project Manager:

25286

Phone:

304-558-2204

* Status of TMDL for Waterbody/Watershed:

Implementing a TMDL

* 51% or More of Project Budget Used to Protect Unimpaired / High Quality Waterbodies:

N

Budget *

Grant Summary

Total 319 Grant Funds:

$1,850,542

Total 319(h) Funds for all Projects:

- **$1,860,542**

Grant Funds Remaining:

= **-$10,000**

Project Budget *

Appropriation Year:

2018

* Project budget includes

3

* 319(h) Federal Funds:

$100,000

* EPA Other:

$0

* Other Federal:

$0

* State Funds:

$66,668

* State In-Kind:

$0

* Local Funds:

$0

* Local In-Kind:

$0

* Other Funds:

$0

Total Budget:

$166,668

Comments:

Work Categories *

Category of Work	Primary
BMP Implementation	Y
BMP Design	N

Sources of NPS Pollution *

Category Type	Secondary	Percent (%)
Agriculture	Grazing-Related Sources Pasture Grazing	100
		100

Key Partners

No Key Partners found.

Related Projects

No Related Projects found.

Attachments

Attachment Name	File Size	Document Type
WVCA_UpperIndianCreekFY18319.pdf	698.1KB	Work Plan

Planning

Watershed Plans *

Status	Plan Name	Attachment
Implementing a Watershed Based Plan	Indian Creek	-

Project Status

Status Type	Current Status	Status Date	Comment	Editor	Edited Date
Current	On Schedule	-	-	TCRADDOC	01/29/2019

Schedule *

Project Start Date:

08/17/2018

Project End Date:

09/30/2022

Comments:

Award signed 08/17/18

Waterbody Information

	Edit	Name	Type	ATTAINS ID	Size	Units
☐	✎	BURNSIDE BRANCH	Stream/Creek/River	WVKN-51-S-1-(S)_00	6.2	MILES

1 - 1

Pollutants to be Addressed

Pollutant	Load Reduction Goal (Numeric, Total for ENTIRE Project)	Units
Pathogens (Coliform)		UNITS

1 - 1

Planned Activities

BMP Type	Quantity Planned	Units of Measure
Alternative Water Sources	15	UNITS
Fence	50000	FT
Nutrient Management	5000	AC
Prescribed Grazing	5000	AC

Tasks

No Tasks found.

Project Evaluations

Evaluation	Evaluation Type	Reporting From	Reporting To	Creation Date	Attachments
Ten different landowners have BMP's under contract with both the WVCA and NRCS. NRCS will be cost sharing with the water development and heavy use area protection practices and the WVCA will be assisting with the fencing practices utilizing 319 funds. Additionally the U.S. Fish and Wildlife Service has become a partner on the project providing fence post to help offset the cost of the fencing practices and extend 319 funds.	Semi-Annual	04/01/2018	09/30/2018	01/29/2019	-

Environmental Results

Drainage Areas

Drainage number	Drainage area	Bmps	Pollutants
1	Upper Indian Creek (050500020703)	Alternative Water Sources, Fence, Nutrient Management, Prescribed Grazing	fecal coliform

Drainage Area Pollutants

Drainage Area Name	Pollutant	Load Reduction Amount	Unit of Measure	Load Reduction Date	Round	Model	Comments
01-Upper Indian Creek (050500020703)	fecal coliform	-	UNITS	-	1	No model was used, N/A	-

Best Management Practices

BMP Type	Number Installed	Units of Measure	Implementation Date	Drainage Area Name	BMP cost	Comments
Alternative Water Sources	-	UNITS	-	01-Upper Indian Creek (050500020703)	-	-
Fence	-	FT	-	01-Upper Indian Creek (050500020703)	-	-
Nutrient Management	-	AC	-	01-Upper Indian Creek (050500020703)	-	-
Prescribed Grazing	-	AC	-	01-Upper Indian Creek (050500020703)	-	-

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Ecoregions

Ecoregion
Central Appalachians
Ridge and Valley

Counties

County Name	State
MONROE	WV

Project Information

Grant #: **00350019** Region: 03 State: WV Appropriation Year: 2019 Project #: 06

General Information

50/50 Funding Split: **Watershed Project Funds**

Project Title: **Burnside Branch - Indian Creek**

State Project Number: **NPS1706**

Subgrantee(s): **WV CONSERVATION AGENCY** ☐ This Project Does Not Have a Subgrantee

Description: **Overview: Indian Creek in Monroe County of West Virginia is a large tributary of the New River. This stream is heavily impacted by cattle and other livestock feeding on karst geology and near karst windows and open sink holes. Agriculture in this area consists primarily of beef cattle and sheep operations with limited dairy production.**
Objectives: The goal of this project is to evenly distribute grazing throughout the karst area, spreading nutrients and bacteria laden waste in a manner that will reduce concentrated runoff and infiltration; and rehabilitate failing septic systems contributing to the bacteria load.
Methods: BMPs will include prescribed grazing, nutrient management, livestock water development, pasture division fencing and failing septic system rehabilitation. Alternative water development and division fencing will be used to enact the prescribed grazing plans. Nutrient management will consist of soil sampling and nutrient mapping of the farms to determine if there is a need for land management changes such as feeding and grazing practices. These nutrient maps will indicate where the "hot spots" of potential runoff are on the farm per current practices and allow the farmers to alter their current practices, then alter those practices to prevent excess runoff and achieve a total load reduction of 1.0401E+13.

Statewide: **N** This Project Will / Did Result in Pollutant Load Reductions: **Y**

Project Manager: **31988** Phone: 304-645-6172

State Project Manager: **31907** Phone: **304-926-0499**

Status of TMDL for Waterbody/Watershed: **Implementing a TMDL**

51% or More of Project Budget Used to Protect Unimpaired / High Quality Waterbodies: **N**

Budget

Grant Summary

Total 319 Grant Funds: **$1,739,996**

Total 319(h) Funds for all Projects: - **$1,831,143**

Grant Funds Remaining: = **-$91,147**

Project Budget

Appropriation Year: **2019**

Project budget includes **3**

319(h) Federal Funds: **$202,917**

EPA Other: **$0**

Other Federal: **$0**

State Funds: **$81,147**

State In-Kind: **$0**

Local Funds: **$0**

Local In-Kind: **$0**

Other Funds: **$0**

Total Budget: **$284,064**

Comments:

Work Categories

Category of Work	Primary
BMP Implementation	Y
Education/Information	N
BMP Effectiveness Monitoring	N

Quality Assurance Project Plan

Does the Project require a Quality Assurance Project Plan ◉ **Yes** ○ No

Sources of NPS Pollution

Category Type	Secondary	Percent (%)
Agriculture	Grazing-Related Sources Pasture Grazing	100
		100

Key Partners

Organization Type	Partner Name	Partner Contribution	Description of Role/Notes
County/Municipal Agencies	MONROE COUNTY HEALTH DEPT	$0	
County/Municipal Agencies	GREENBRIER CONSERVATION DISTRICT	$0	
Other Federal Agencies	NATURAL RESOURCE CONSERVATION SERVICE	$0	
Other Federal Agencies	US FISH AND WILDLIFE SERVICE	$0	
Watershed Group	INDIAN CREEK WATERSHED ASSOCIATION	$0	
		$0	

Related Projects

No Related Projects found.

Attachments

Attachment Name	File Size	Document Type
BurnsideBranch_IndianCreek.pdf	618.4KB	Work Plan

Planning

Watershed Plans

Status	Plan Name	Attachment
Implementing a Watershed Based Plan	*Indian Creek	-

Project Status

Status Type	Current Status	Status Date	Comment	Editor	Edited Date
Current	On Schedule	06/12/2019	Award signed	TCRADDOC	08/13/2019

Schedule

Project Start Date: **06/01/2019**

Project End Date: **02/28/2023**

Comments:

Waterbody Information

☐	Edit	Name	Type	ATTAINS ID	Size	Units
☐	✎	BURNSIDE BRANCH	Stream/Creek/River	WVKN-51-S-1-(S)_00	6.2	MILES

1 - 1

Pollutants to be Addressed

Pollutant	Load Reduction Goal (Numeric, Total for ENTIRE Project)	Units
Pathogens (Coliform)		UNITS

1 - 1

Planned Activities

BMP Type	Quantity Planned	Units of Measure
Nutrient Management		AC
Onsite Waste Water Treatment System (New/Existing)		UNITS

BMP Type	Quantity Planned	Units of Measure
Onsite Waste Water Treatment System (pumpout)		UNITS
Prescribed Grazing		AC

Tasks

No Tasks found.

Project Evaluations

No Project Evaluations found.

Environmental Results

Drainage Areas

Drainage number	Drainage area	Bmps	Pollutants
1	Upper Indian Creek (050500020703)	Alternative Water Sources, Nutrient Management, Onsite Waste Water Treatment System (New/Existing), Onsite Waste Water Treatment System (pumpout), Prescribed Grazing	Pathogens (Coliform)

Drainage Area Pollutants

Drainage Area Name	Pollutant	Load Reduction Amount	Unit of Measure	Load Reduction Date	Round	Model	Comments
01-Upper Indian Creek (050500020703)	Pathogens (Coliform)	-	UNITS	-	1	Monitoring/WVCA modeling	-

Best Management Practices

BMP Type	Number Installed	Units of Measure	Implementation Date	Drainage Area Name	BMP cost	Comments
Alternative Water Sources	-	UNITS	-	01-Upper Indian Creek (050500020703)	-	-
Nutrient Management	-	AC	-	01-Upper Indian Creek (050500020703)	-	-
Onsite Waste Water Treatment System (New/Existing)	-	UNITS	-	01-Upper Indian Creek (050500020703)	-	-
Onsite Waste Water Treatment System (pumpout)	-	UNITS	-	01-Upper Indian Creek (050500020703)	-	-
Prescribed Grazing	-	AC	-	01-Upper Indian Creek (050500020703)	-	-

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Ecoregions

Ecoregion
Central Appalachians
Ridge and Valley

Counties

County Name	State
MONROE	WV

Project Information

Grant #: **00350019** Region: 03 State: WV Appropriation Year: 2019 Project #: 08

General Information

50/50 Funding Split: **Watershed Project Funds**

Project Title: **Second Creek Karst III**

State Project Number: **NPS1708**

Subgrantee(s): **WV CONSERVATION AGENCY** ☐ This Project Does Not Have a Subgrantee

Description: **Overview: Second Creek in Monroe and Greenbrier Counties of West Virginia is a large tributary of the Greenbrier River. This stream is heavily impacted by cattle and other livestock feeding on karst geology and near karst windows and open sink holes. Agriculture in this area consists primarily of beef cattle operations.**
Objectives: The goal of this project is to evenly distribute grazing throughout the karst area, spreading nutrients and bacteria laden waste in a manner that will reduce concentrated runoff and infiltration.
Methods: BMPs will include prescribed grazing, nutrient management, livestock water development and pasture division fencing. Alternative water development and division fencing will be used to enact the prescribed grazing plans. These practices will prevent excess runoff and achieve a total load reduction of 1.24E+14.

Statewide: **N** This Project Will / Did Result in Pollutant Load Reductions: **Y**

Project Manager: **31988** Phone: 304-645-6172

State Project Manager: **31907** Phone: **304-926-0499**

Status of TMDL for Waterbody/Watershed: **Implementing a TMDL**

51% or More of Project Budget Used to Protect Unimpaired / High Quality Waterbodies: **N**

Budget

Grant Summary

Total 319 Grant Funds:	Total 319(h) Funds for all Projects:	**Grant Funds Remaining:**
$1,739,996	- **$1,831,143**	= **-$91,147**

Project Budget

Appropriation Year: **2019**

Project budget includes **3**

319(h) Federal Funds: **$127,000**

EPA Other: **$0**

Other Federal: **$0**

State Funds: **$84,668**

State In-Kind: **$0**

Local Funds: **$0**

Local In-Kind: **$0**

Other Funds: **$0**

Total Budget: **$211,668**

Comments:

Work Categories

Category of Work	Primary
BMP Implementation	Y
Education/Information	N
BMP Effectiveness Monitoring	N

Quality Assurance Project Plan

Does the Project require a Quality Assurance Project Plan ◉ **Yes** ○ No

Sources of NPS Pollution

Category Type	Secondary	Percent (%)
Agriculture		100
		100

Key Partners

Organization Type	Partner Name	Partner Contribution	Description of Role/Notes
County/Municipal Agencies	GREENBRIER CONSERVATION DISTRICT	$0	
		$0	

Related Projects

No Related Projects found.

Attachments

Attachment Name	File Size	Document Type
SecondCreekKarst-III.pdf	255.5KB	Work Plan

Planning

Watershed Plans

Status	Plan Name	Attachment
Implementing a Watershed Based Plan	*Second Creek Watershed	-

Project Status

Status Type	Current Status	Status Date	Comment	Editor	Edited Date
Current	On Schedule	06/12/2019	Award signed	TCRADDOC	08/14/2019

Schedule

Project Start Date: **06/01/2019**

Project End Date: **02/28/2023**

Comments:

Waterbody Information

☐	Edit	Name	Type	ATTAINS ID	Size	Units
☐		SECOND CREEK	Stream/Creek/River	WVKNG-23_04	19	MILES

1 - 1

Pollutants to be Addressed

Pollutant	Load Reduction Goal (Numeric, Total for ENTIRE Project)	Units
Pathogens (Coliform)		UNITS

1 - 1

Planned Activities

BMP Type	Quantity Planned	Units of Measure
Alternative Water Sources		UNITS
Nutrient Management		AC
Prescribed Grazing		AC

Tasks

No Tasks found.

Project Evaluations

No Project Evaluations found.

Environmental Results

Drainage Areas

Drainage number	Drainage area	Bmps	Pollutants
1	Lower Second Creek (050500030703)	-	-

Drainage Area Pollutants

Best Management Practices

Ecoregions

Ecoregion
Central Appalachians
Ridge and Valley

Counties

County Name	State
GREENBRIER	WV
MONROE	WV