



2018 Application for Section 205(j) Water Quality Planning Grant

Division of Water Resources
North Carolina Department of Environmental Quality

1. Basic Information			
Project Title:	<i>Elkin & Jonesville: Stormwater Infrastructure Mapping & Assessment</i>		
Project start date:	<i>February 15, 2019</i>	Project end date:	<i>June 30, 2020</i>
Project Abstract:			
<p>The Yadkin Valley Sewer Authority (YVSA) operates a collective sewer system for the Towns of Elkin, Jonesville, and Ronda, and their associated counties, Surry, Yadkin, and Wilkes. The YVSA's wastewater treatment facility treats approximately 650,000 gallons of wastewater on average. However, after heavy rain storms, this number can increase to as high as 2,000,000 gallons, well above the YVSA's 1.8 million gallons per day capacity. This has unfortunately resulted in sanitary sewer overflows through and out of manhole covers, spilling into Big Elkin Creek and the Yadkin River. These two water sources provide drinking water for all three towns and surrounding area and are critical resources to the region.</p> <p>In order to prevent future overflows and better protect water resources, the Sewer Authority would like to investigate any potential leaks/connections between local stormwater and sewer systems in order to repair/disconnect them, as well as encourage local municipalities to pursue policies and projects to reduce overall stormwater loads. The Sewer Authority has a Stormwater Pollution Prevention Plan (SWPP) in place for their own treatment facility, however, the Towns of Elkin, Jonesville, and Ronda, do not have a stormwater management plan at this time and are not large enough to fall under Phase II regulations.</p> <p>To address these concerns, the Piedmont Triad Regional Council (PTRC) is proposing to partner with the Yadkin Valley Sewer Authority and its two largest municipalities, the Town of Elkin & Jonesville, to inventory and map local stormwater infrastructure and identify any potential maintenance needs focused on reducing stormwater loads on wastewater facilities. To complement this effort, the PTRC will also analyze land use contributions to stormwater loads and review and update potential opportunities for additional stormwater control measures (SCMs) to the <i>Elkin & Jonesville Water Supply Protection Plan</i>. Our hope is that this collaborative effort will not only help address immediate water quality concerns, but also motivate both towns to pursue additional stormwater management measures in the future. The PTRC has worked successfully with both towns in the past to protect water resources through the development of the <i>Elkin & Jonesville Water Supply Protection Plan</i>, which identified a need for both towns to adopt stormwater management programs in 2015. Watershed NOW, a local non-profit whose mission is to protect, enhance, and preserve the Big Elkin Creek Watershed, has also been working proactively with the Town of Elkin and Jonesville to revise and enhance town zoning ordinances to better protect water resources.</p> <p>Both towns have agreed to commit local public works staff time to support the project as in-kind match funding. Collected data will be mapped and hosted through ArcGIS online, which is viewable from any desktop or mobile device, to ensure easy access and enable local partners to integrate stormwater infrastructure data into existing maintenance procedures and planning processes. The stormwater infrastructure geodatabase, as well as the assessment report, will be valuable resources as both communities continue to develop their stormwater management systems, mitigate sewer overflows, and improve water quality.</p>			
205(j) Grant Funds Requested	\$18,826		
Match (optional, recommended)	\$10,091		
Total Project Cost	\$28,916		



Water Resources
ENVIRONMENTAL QUALITY

2018 Application for Section 205(j) Water Quality Planning Grant

Division of Water Resources
North Carolina Department of Environmental Quality

2a. Primary Contact or Project Manager: <i>A one-page Statement of Qualifications must be provided in Section 4 of the application form to confirm that anyone designing, installing, or monitoring the proposed project is qualified to do so.</i>					
Name	Cameron Colvin				
Title	Regional Planner I				
Organization Name	Piedmont Triad Regional Council				
Mailing Address	1398 Carrollton Crossing Drive				
City	Kernersville	State	NC	ZIP	27284
Email Address	ccolvin@ptrc.org				
Telephone	336-904-0300	FAX No.	336-904-0309		

2b. Administrative Address: <i>Address where contract will be mailed for signature.</i>					
Name	Matthew L. Dolge				
Title	Executive Director				
Organization Name	Piedmont Triad Regional Council				
Mailing Address	1398 Carrollton Crossing Drive				
City	Kernersville	State	NC	ZIP	27284
Email Address	mdolge@ptrc.org				
Telephone	336-904-0300	FAX No.			
Federal Tax ID Number	56-1241166				

2c. Payment Address: <i>Address where invoice payments will be mailed.</i>					
Name	Jarrod Hand				
Title	Assistant Finance Director				
Organization Name	Piedmont Triad Regional Council				
Mailing Address	1398 Carrollton Crossing Drive				
City	Kernersville	State	NC	ZIP	27284
Email Address	jhand@ptrc.org				
Telephone	336-904-0300	FAX No.			

3. Statement of Qualifications for project manager and primary partners

Please include qualifications of people, not organizations. Do not copy and paste entire CVs. Briefly describe relevant experience, noting any relevant 205(j) grant funded projects.

Piedmont Triad Regional Council

Cameron Colvin, Regional Planner I will serve as the Project Manager for this project and ensure its timely delivery, including all quarterly reports. Mr. Colvin currently manages PTRC's Water Resources Program, administrating and producing meaningful deliverables both for project stakeholders and grant agencies on a variety of water quality projects. He holds a B.S. in Sustainable Development from Appalachian State University and Master's of City and Regional Planning from Clemson University.

His immediate duties for this project will be to work with local planning and public works departments to collect stormwater infrastructure field data, assist with GIS mapping and analysis, and develop a final report for both Towns to identify potential maintenance needs or other opportunities to address stormwater concerns. Mr. Colvin has worked on a number of federal and state planning grants to improve water resources, including several 205(j)-funded technical projects that have enabled better stormwater management. Relevant projects include:

- Madison & Mayodan: Stormwater Mapping & Analysis (Ongoing) - \$17,579 205(j) Grant
- Southwest High Point Green Infrastructure Plan (Ongoing) - \$69,500 Clean Water Grant
- Eden Watershed Outreach & Education (Ongoing) - \$12,576 205(j) Grant
- Swearing Creek Watershed Restoration Plan (2018) - \$75,000 Clean Water Grant
- Guilford County Watershed Prioritization Plan (2017) - \$19,404 205(j) Grant

Malinda Ford, GISP, Senior Regional Planner has nearly 10 years of experience in GIS analysis, mapping, and database management. She received her B.A. in Environmental Biology and Master's in Geography with a Certificate in GIS from the University of North Carolina – Greensboro and supports a variety of planning projects related to transportation, environmental, land use, recreation and economic issues.

Ms. Ford has been the technical lead on seven 205(j)-supported GIS-based water resources projects the PTRC has been involved with, using ESRI ArcGIS to anticipate watershed management needs based upon land use and land cover data. She won a National Association of Development Organizations' Innovation Award for this work. She will be providing a similar role for this project, developing a stormwater infrastructure geodatabase and analyzing watershed conditions to inform stormwater management needs.

- Madison & Mayodan: Stormwater Mapping & Analysis (Ongoing) - \$17,579 205(j) Grant
- Swearing Creek Watershed Restoration Plan (2018) - \$75,000 Clean Water Grant
- Guilford County Watershed Prioritization Plan (2017) – 19,404 205(j) Grant
- Eden Area Watershed Restoration Plan (2014) – \$29,000 Clean Water Grant
- Piedmont Triad Regional Watershed Assessment (2013) – \$6,750 205(j) Grant
- Upper Cape Fear River Basin Assessment (2012) – \$42,315 205(j) Grant
- Dan River Basin Conservation & Restoration Plan (2012) – \$29,050 205(j) Grant
- Yadkin River Basin Priority Watershed Analysis (2010) - \$51,100 205(j) Grant
- Lower Abbotts Creek Watershed Plan (2010) – \$27,000 Clean Water Grant

Additional project support will be provided by local public works staffs and an AmeriCorps Service Member, who will accompany PTRC staff in the field to collect stormwater infrastructure data. The Yadkin Valley Sewer Authority, who operates the collective sewer system for Elkin, Jonesville, and Ronda, will provide technical assistance and help identify potential leaks/connections between local stormwater and sewer systems. Members of Watershed NOW, a local non-profit that protects water quality, will provide additional project feedback and help coordinate efforts between the two towns and sewer authority to prevent future sewer overflows.

4. Project Partner Information:

If further space is needed to adequately describe partners' role/contribution to project, please include in the Statement of Qualifications section.

Agency Name	Town of Elkin		
Agency Address	226 North Bridge Street, Elkin, NC, 28621		
Role/contribution to Project	Public Works staff will assist with field data collection		
Contact Person	Brent Cornelison	Phone No.	336-794-6461
E-mail address	bcornelison@elkinnc.org		
Agency Name	Town of Jonesville		
Agency Address	1503 NC Highway 67, Jonesville, NC, 28642		
Role/contribution to Project	Public Works staff will assist with field data collection		
Contact Person	Michael Pardue	Phone No.	336-835-3426
E-mail address	townmanager@jonesvillenc.gov		
Agency Name	Yadkin Valley Sewer Authority		
Agency Address	500 NC Hwy 268 W, Elkin, NC, 28621		
Role/contribution to Project	Staff will serve on project steering committee and help investigate potential stormwater leaks/connections to sewer system		
Contact Person	Nicole Johnston	Phone No.	336-835-9819
E-mail address	Nicole.Johnston@yvsa.org		
Agency Name	Watershed NOW		
Agency Address	151 Hillcrest Drive, Elkin, NC, 28621		
Role/contribution to Project	Coordination with local governments & other water quality initiatives		
Contact Person	Woodruff Faulk	Phone No.	336-941-7710
E-mail address	xhelwood@aol.com		

5. General Goal of the Project (per the Clean Water Act Section 604(b)/205(j) grant purpose)

Identify most cost effective and locally acceptable facility and nonpoint source measure to meet and maintain water quality standards	Develop implementation plan to obtain state and local financial and regulatory commitments to implement measures identified	Determine the nature, extent, and cause of water quality problems in various areas of the state	Other—please specify water quality planning purpose
X		X	

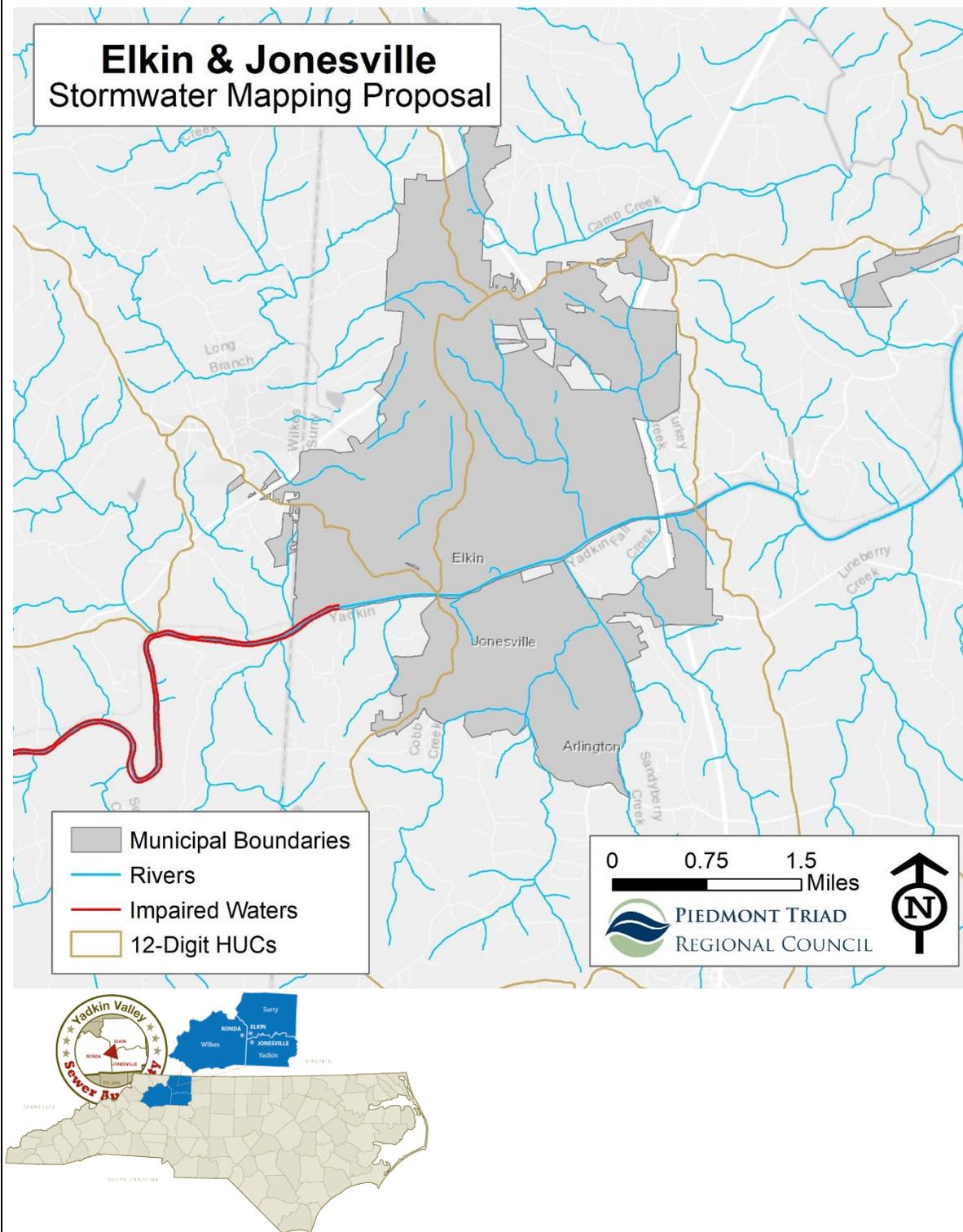
NC Application for Section 205(j) Planning Grant

6. Project Area	
Results Site-Specific, Regional, or Statewide?	Specific to two sites – Town of Elkin, Town of Jonesville
River Basin	Yadkin River Basin
Need identified in Basin Plan? (Y/N; note plan name, date, pg#)	Y, "Improved management of stormwater runoff, especially in urban and suburban areas"; Upper Yadkin Pee-Dee River Basin Restoration Priorities 2009; February 2009, pg. 3
Watershed name	Elkin Creek-Yadkin River (10-digit HUC)
Watershed size	135.9 square miles
(For site-specific projects only) 12 digit USGS HUC(s)	030401010504, 030401010604, 030401010605, 030401010606, 030401010607
County	Yadkin & Surry County

7. Project Milestone Schedule		
<i>If anticipating starting project in second quarter, can leave first quarter blank. Please note anticipated dollar amount, percent of grant spent that quarter, and cumulative percent of grant spent for project. Quarterly invoices will only be reimbursed up to percent indicated. Unused funds will carry forward to next quarter. Note that 10% of grant will be held until receipt of Final Project Report.</i>		
Quarter	Activities or outputs to be accomplished	Anticipated \$ amount / % of funding spent / cumulative % spent
First Quarter Jan-Mar 2019	Project kick-off meeting with Town Public Works staffs; geodatabase design/creation; and begin scheduling dates for field work	\$3,171 16.8% 16.8% cumulative
Second Quarter Apr-June 2019	Begin collecting stormwater infrastructure data (location & attribute); Begin analyzing and mapping existing conditions including land cover/use, elevation, soil type, and any other relevant features.	\$3,171 16.8% 33.6% cumulative
Third Quarter Aug-Jul - Sept 2019	Continue collection of stormwater infrastructure field data (location and attribute); Review & update restoration projects from Water Supply Protection Plan and identify any additional SCM opportunities through GIS modeling, aerial analysis, and field visits	\$3,121 16.6% 50.2% cumulative
Fourth Quarter Oct - Dec 2019	Complete collection of field data; Review and process collected data; Digitize any remaining features and map stormwater flows	\$3,121 16.6% 66.8% cumulative
Fifth Quarter Jan - Mar 2020	Create map deliverables including an indexed map book, ESRI file geodatabase, and ArcGIS Online Map;	\$3,121 16.6% 83.4% cumulative
Sixth Quarter Apr - Jun 2020	Draft final report summarizing needed infrastructure improvements and potential SCM opportunities	\$3,121 16.6% 100% cumulative

NC Application for Section 205(j) Planning Grant

8. Map of project area: Please copy map into document as a small image file.



NC Application for Section 205(j) Planning Grant

9. Detailed description of the project

(Note: if developing a Watershed Restoration Plan, please also complete section 16)

The Piedmont Triad Regional Council (PTRC) proposes to map the entire stormwater network within the town limits of Elkin and Jonesville, noting any infrastructure upgrade or maintenance needs, analyze existing land use contributions to stormwater loads, and identify additional opportunities to reduce stormwater loads and improve water quality through stormwater control measures (SCMs).

In order to do so, a Stormwater Infrastructure Geodatabase will be created in ESRI's ArcGIS 10.x to inventory and manage the collected stormwater data. A Trimble R1 Integrated GNSS device will be utilized, in combination with a tablet and ArcGIS Online, to capture features at a horizontal accuracy level of 50cm in the field. Stormwater features mapped will include all inlets, outlets, culverts, major ditchlines, present BMPs, retention basins and swales within town limits. In instances where a culvert from outside town limits flows into an inlet or to an outlet within town limits, that culvert will be collected and traced up-flow to its point of origin/source outside town limits. Public Works staff from each town will assist PTRC with feature locations, traffic control, pipe measurements, and grate lifting as necessary.

Stormwater attribute data collected in the field will consist of stormwater inlet and outlet type, location (x-y coordinates), culvert material, diameter, shape, and condition, manhole size, depth, and shape, description of problems/failures (rusted out, section separation, debris blockage), stormwater flow direction, surface or stream outfall, presence of erosion or sinkholes, evidence of major sediment runoff, stream name for stream outfalls, hydrologic unit code, and a high-resolution hyperlinked photo of each stormwater feature. Each stormwater inlet and outlet feature will be assigned a unique identification number. Culverts will be digitized based on correct direction of flow, which will enable the towns to trace stormwater flow from the point of origin to the surface or stream outfall.

PTRC will then review all collected data to ensure all inlet and outlet points are joined to culverts or ditchlines to ensure topological integrity of the GIS network data. Data edits will be performed and metadata will be comprised for the Stormwater Infrastructure Geodatabase. In an effort to increase accessibility, PTRC will host all collected data through ArcGIS Online, which is viewable from all desktop and mobile devices. This will allow both towns to view and query infrastructure location, attributes, and hyperlinked photos as needed. An indexed map book will also be produced to catalogue and symbolize stormwater features for field use.

To complement the collected stormwater data and recommendations, the PTRC will analyze and map existing environmental and land use conditions that influence stormwater volumes and identify any additional opportunities for stormwater control measures (SCMs). Features examined will include: topography, catchment areas and drainage lines, soil types, land cover, and land use. The *Elkin & Jonesville Water Supply Protection Plan* helped identify potential restoration projects throughout both towns and counties. The PTRC will review and update projects that were identified within town limits and determine any additional opportunities through a combination of GIS modeling, aerial imagery, and field visits. Site selection will consider factors such as parcel size, soil type, land use/cover, topography, property ownership, hydrology, flood frequency, and property vacancy.

A final Stormwater Assessment Report will be generated by PTRC for the two towns identifying, by unique identification number, all stormwater infrastructure features in need of improvement as assessed during field collection, environmental factors contributing to stormwater flows, and additional SCM projects to reduce stormwater loads and improve water quality. After completion of this project, PTRC will continue its close working relationship with Elkin & Jonesville to assist with routine data maintenance to keep the stormwater network up-to-date, and provide on-going technical support as needed for implementation. This project will be an important step in addressing sewer overflows and other water quality concerns in the area and equip the Towns of Elkin & Jonesville to begin developing their own stormwater management programs.

NC Application for Section 205(j) Planning Grant

10a. Related Projects in the Watershed

Please note any other water quality or conservation projects in the same watershed that contribute to the same goals as the proposed project. These could be own or partners' related water quality planning or implementation projects. If few or none, note how this project will fill a need.

- **Elkin & Jonesville Water Supply Protection Plan**
- **Surry & Yadkin County Farmland Preservation Plans**

Although previous water quality and conservation projects have been completed within the watershed, few have directly targeted stormwater runoff. The proposed project will help fill this need and be a significant step in developing stormwater management programs in the Towns of Elkin & Jonesville.

10b. Relevance to Proposed Project (if applicable)

Help reviewers understand local capacity:

- How might these projects benefit or complement the proposed project?
- When were they completed?
- Who implemented/maintains them?

Elkin & Jonesville Water Supply Protection Plan (2015)

The *Elkin & Jonesville Water Supply Protection Plan* was a planning effort conducted by the PTRC in 2015, which analyzes historic and current land uses and policies, identifies a number of conservation and restoration projects, and outlines policy and ordinance recommendations to better protect water supply resources. One of the needs identified in this plan was to update and improve local development ordinances to better manage stormwater runoff. The Towns of Elkin & Jonesville are responsible for implementing the recommendations of this plan, with technical support from the PTRC and other organizations like Watershed NOW. Mapping existing stormwater networks will be one of the first collaborative efforts to begin implementing Water Supply Protection recommendations and will help inform future stormwater projects. The proposed project will also update and incorporate restoration projects from this plan's *Project Atlas* that are within town limits and suitable as SCM sites.

Surry & Yadkin County Farmland Preservation Plans (2012 & 2015)

The Piedmont Land Conservancy helped develop Farmland Preservation Plans for both Surry and Yadkin County in 2012 & 2015 respectively. These two plans analyze land development patterns in both counties and provide tools and policy recommendations to help conserve farmland in the area. Conservation of farmland ensures that it will not be converted to more urban uses, which helps maintain and reduce stormwater flows within the watershed. The PLC, Yadkin, and Surry County Soil & Water help maintain and implement this plan and have secured multiple conservation easements along the Yadkin River and Big Elkin Creek.

NC Application for Section 205(j) Planning Grant

11. What funding sources exist to implement the results of the project?

There are a variety of funding sources that could be used to maintain and improve stormwater infrastructure networks and implement stormwater control measures, including:

Local Sources

- Town of Elkin Capital Improvement Budget (no stormwater fee currently)
- Town of Jonesville Capital Improvement Budget (no stormwater fee currently)
- Yadkin Valley Sewer Authority Funding
- Yadkin County Soil & Water (NC Ag Cost Share Program or CCAP program)
- Surry County Soil & Water (NC Ag Cost Share Program & others)

State & Federal Sources

- Clean Water State Revolving Fund
- Clean Water Management Trust Fund (if innovative)
- 319 Grant Program (Once an approved watershed plan is in place. The Elkin & Jonesville Water Supply Protection Plan meets many of the 9-element requirements already.)

Other Sources

- Duke Energy Water Resources Fund

12. (Optional) Photos or diagrams: *include photos or diagrams if they would supplement project narrative and improve reviewers' understanding of your project.*

NC Application for Section 205(j) Planning Grant

13. Funding Requested					
<i>Note: If a significant portion of funding is in contractual line, please break down contractual line items in section 15.</i>					
Budget Categories (itemize all categories)	Section 205(j)		Non-Federal Match (recommended, but not required)	Total	Justification (Include explanation for each budget line item)
	Year 1	Year 2			
Personnel/Salary	\$3,785	\$7,572	\$5,100	\$16,453	In-kind stakeholder staff time to serve on steering committee, & assist with field work & data coordination (~50hrs for each Town, rates vary)
Fringe Benefits	\$1,647	\$3,293	-	\$4,940	PTRC fringe benefit (43.5%)
Supplies	\$100	-	-	\$100	Paper, ink, bug spray, sunscreen
Equipment	-	-	-	-	
Travel	\$267	\$533	-	\$800	Mileage at \$0.535/mile
Contractual	-	-	-	-	
Other	-	-	-	-	
Total Direct	\$5,799	\$11,397		\$17,196	
Indirect (max. 10% of direct costs, per 40 CFR 35.268)	\$543	\$1,086	\$4,991	\$6,620	PTRC's portion of indirect costs not covered by grant (rate is 38.5%)
Annual Totals	\$6,342	\$12,484	-	\$18,826	
Grand Total	\$18,826		\$10,091	\$28,916	
% of Total Budget	65%		35%	100%	

NC Application for Section 205(j) Planning Grant

14. Match summary (if applicable—recommended, but not required)	
Total Match amount	\$10,091
Cash Match	\$4,991
Source(s):	PTRC indirect services to support staff not eligible for grant support
In-kind Match	\$5,100
Source(s):	Town of Elkin, Town of Jonesville, Yadkin Valley Sewer Authority, and Watershed NOW staff time spent at meetings, assisting with field data collection, and coordinating data sharing and other water quality efforts.

NC Application for Section 205(j) Planning Grant

15. Contractual budget – IF APPLICABLE					
<i>If a significant portion of funding is in contractual line, please break down contractual line items here.</i>					
Budget Categories (itemize all categories)	Section 205(j)		Non-Federal Match (recommended, but not required)	Total	Justification (Include explanation for each budget line item)
	Year 1	Year 2			
Personnel/Salary					
Fringe Benefits					
Supplies					
Equipment					
Travel					
Contractual					
Other					
Total Direct					
Indirect (max. 10% of direct costs, per 40 CFR 35.268)					
Annual Totals					
Grand Total					
% of Total Budget	%		%	100%	

NC Application for Section 205(j) Planning Grant

16. (Only for applicants developing a 9-Element Watershed Restoration Plan) Please indicate below what sources you will use to find or develop the information necessary to meet EPA's 9 Key Elements.	
1	An identification of the causes and sources or groups of similar sources that will need to be controlled to achieve the load reductions estimated in the watershed
2	A description of the NPS management measures that will need to be implemented to achieve load reductions as well as to achieve other watershed goals identified in the watershed based plan
3	An estimate of the load reductions expected for the management measures
4	An estimate of the amount of technical and financial assistance needed associated costs and or sources and authorities that will be relied upon, to implement the plan
5	An information/education component that will be used to enhance public understanding of the project
6	A schedule for implementing the NPS management measures identified in this plan that is reasonably expeditious

NC Application for Section 205(j) Planning Grant

7	A description of interim, measurable milestones for determining whether NPS management measures or other control actions are being implemented
8	A set of criteria that can be used to determine whether loading reductions are being achieved overtime and substantial progress is being made towards attaining water quality standards
9	A monitoring component to evaluate the effectiveness of the implementation efforts over time measured against the criteria established under item 8.

If you have questions or need assistance filling out this application, please do not hesitate to contact 205(j) grant administrator Maya Cough-Schulze at (919) 807-6442 or maya.cough-schulze@ncdenr.gov.

Town of Elkin

TOWN MANAGER
Brent Cornelison

TOWN ATTORNEY
Raymond A. Parker



MAYOR
Sam Bishop

COMMISSIONERS
Terry Kennedy
Tommy Wheeler
Cicely McCulloch
Jeff Eidson
Dr. Skip Whitman

Ms. Maya Cough-Schulze
20Sj Water Quality Planning Grant Administrator
Nonpoint Source Planning Branch
NC Division of Water Resources - Water Planning Section
1617 Mail Service Center
Raleigh, NC 27699-1617

Dear Ms. Cough-Schulze:

I am writing in support of the Piedmont Triad Regional Council's 20Sj grant proposal to map stormwater infrastructure for the Towns of Elkin & Jonesville. During heavy rains, our Town often experiences high levels of stormwater runoff, which can cause flooding in certain areas of town, erode local streambanks, and occasionally cause sanitary sewer overflows for our collective Sewer Authority. We have worked collaboratively with PTRC and Jonesville in the past to proactively address these concerns and further protect Big Elkin Creek and the Yadkin River, which supply drinking water for both of our towns.

The proposed project would provide Elkin with an opportunity to more accurately inventory existing infrastructure, capacity, and connections, as well as identify any maintenance needs or opportunities for stormwater retention. If awarded, we are greatly looking forward to having an easily accessible database to assist our Public Works and Planning departments.

To serve this project, we are willing to dedicating the time and resources of our Public Works staff at a minimum of fifty (50) hours to serve on the project's steering committee and aid in field work data collection. This dedication of in-kind support over the grant term is valued at \$2,000.

If you have any questions or concerns regarding the Town of Elkin's commitment to this project, please feel free to contact me.

Sincerely,

Brent Cornelison
Town Manager
Town of Elkin



TOWN OF JONESVILLE

1503 NC Hwy. 67
Jonesville NC 28642
(336) 835-3426
(336) 835-3231 - Fax

August 14, 2018

Ms. Maya Cough-Schulze
205j Water Quality Planning Grant Administrator
Nonpoint Source Planning Branch
NC Division of Water Resources -Water Planning Section
1617 Mail Service Center
Raleigh, NC 27699-1617

Dear Ms. Cough-Schulze,

I am writing to express my support for the Piedmont Triad Regional Council's (PTRC) proposal to map stormwater infrastructure for the Towns of Jonesville & Elkin. The Town of Jonesville is located along the Yadkin River, which serves as our primary source of drinking water. During large storm events, our town receives excessive amounts of rain which can overload stormwater systems, degrade local stream banks, and occasionally cause sewer overflows.

This 205j grant would provide Jonesville with an opportunity to better inventory existing infrastructure and identify any improvements that may be needed or opportunities for best management practices. An online database with this information will also make routine maintenance more efficient for Town staff. We have previously worked with PTRC and the Town of Elkin to develop the *Elkin & Jonesville Water Supply Protection Plan* and look forward to the opportunity of working with them again to further protect water resources.

In order to support this project, we are willing to dedicate a minimum of fifty (50) hours of Public Works staff time to serve on the project's steering committee and aid in field work data collection. This dedication of in-kind support over the project's 15-month timeline is valued at \$2,000.

Please let me know if you have any questions or concerns regarding the Town of Jonesville's commitment to this project.

Sincerely,

Michael Pardue
Town Manager
Town of Jonesville

EXECUTIVE DIRECTOR
Nicole Johnston

TREASURER
Wayne Moore

SECRETARY
Woody Faulk

ADMINISTRATIVE ASSISTANT
Susan White



CHAIRMAN
J. L. Lowe, Jr.

VICE-CHAIR
Wayne Moore

DIRECTORS
Anita Darnell
Woody Faulk
Victor Varela

Ms. Maya Cough-Schulze
205j Water Quality Planning Grant Administrator
Nonpoint Source Planning Branch
NC Division of Water Resources -Water Planning Section
1617 Mail Service Center
Raleigh, NC 27699-1617

Dear Ms. Cough-Schulze,

I am writing to express the Yadkin Valley Sewer Authority's support for the Piedmont Triad Regional Council's 205j grant proposal to map stormwater infrastructure for the Towns of Elkin & Jonesville. The Yadkin Valley Sewer Authority manages wastewater collections and treatment for both towns, as well as the Town of Ronda, in an effort to provide more efficient and cost-effective sewer service. Our current wastewater treatment plant has the capacity to treat 1.8 million gallons of wastewater per day, while averaging about 763,000 gallons per day. However, during heavy rainfall events this number can increase up to 2 million gallons and overload the system, resulting in sewer overflows.

It is suspected that some of this additional water is a result of stormwater infiltrating through our aging infrastructure throughout each of the towns. This 205j grant will provide an opportunity to better assess existing infrastructure, investigate any potential legacy connections, and address them, reducing our overall wastewater load.

In order to support this project, we are willing to dedicate up to twenty (20) hours of staff time over the project's duration to serve on the project's steering committee and provide project input. This dedication of in-kind services is valued at \$500.

If you have any questions or concerns regarding the Yadkin Valley Sewer Authority's commitment to this project, please contact me.

Sincerely,

A handwritten signature in blue ink that reads "Nicole Johnston".

Nicole Johnston
Executive Director
Yadkin Valley Sewer Authority



August 23, 2018

Ms. Maya Cough-Schulze
205j Water Quality Planning Grant Administrator
Nonpoint Sourcing Planning Branch
NC Division of Water Resources – Water Planning Section
1617 Mail Service Center
Raleigh, NC 27699-1617

Dear Ms. Cough-Schulze:

I am writing in support of the Piedmont Triad Regional Council's proposal to map stormwater infrastructure for the Towns of Elkin, Jonesville and Ronda. Watershed NOW is a non-profit organization whose mission is to inspire local action by educating our community on the importance and need for clean water. We have been heavily involved within the Town of Elkin and surrounding region, working with several schools, churches, property owners, and other community groups to provide environmental learning opportunities. We are currently working with the Town of Elkin to revise and enhance their zoning and development ordinances to better protect the water supply of Elkin and improve water quality.

It is our hope that Elkin, along with Jonesville and Ronda, will take proactive steps to manage stormwater runoff and protect local water resources. This 205j grant will provide these three towns with an opportunity to better assess existing stormwater conditions and identify areas where infrastructure improvements are needed or where best management practices could be incorporated. Updated stormwater maps will also help inform local storm water management policies, which are necessary to reduce potential sewer overflows and pollutants entering the water supply of Elkin, Jonesville and Ronda.

In order to support this effort, Watershed NOW is willing to commit a minimum of thirty (30) hours of staff time to serve on the project's steering committee and assist with stakeholder engagement. This commitment of in-kind support over the project's fifteen (15) month timeline is valued at \$600.

Please let me know if you have any questions or concerns regarding Watershed NOW's commitment to this project.

Sincerely,

A handwritten signature in black ink that reads "Woodruff Faulk". The signature is written in a cursive style with a large, prominent "F".

Woodruff Faulk
Watershed Now

Note from Cameron about Elkin & Jonesville application:

Maya,

I was not sure where to mention it in the application, but I wanted to make you aware that we did discuss the Elkin & Jonesville project with High Country COG. Based on their suggestions, we elected to not include the Town of Ronda, because of their small size and lack of staff capacity to utilize and implement project deliverables. High Country COG will work with them in the future to map what stormwater infrastructure they have and reduce stormwater loads in their area.

Sincerely,

Cameron Colvin

Regional Planner I

PTRC Regional Planning Department

1398 Carrollton Crossing Drive | Kernersville, NC 27284

Phone: 336.904.0300 | Fax: 336.904.0309

ccolvin@ptrc.org | www.ptrc.org |

