## Texas State Soil and Water Conservation Board Clean Water Act §319(h) Nonpoint Source Grant Program FY 2020 Workplan 20-08

	SUM	MARY PAGE					
Title of Project	Coordinating Implementa	Coordinating Implementation of the Geronimo and Alligator Creeks Watershed Protection Plan					
Project Goals	<ul> <li>Facilitate continued implementation of management measures identified in the Geronimo and Alligator Creeks Watershed Protection Plan.</li> <li>Conduct educational programs to stakeholders, provide updates on progress, and seek stakeholder input and recommendations on needed activities.</li> <li>Assist the Partnership in identifying and developing proposals to acquire funding for implementation projects, and in managing and tracking implementation efforts.</li> <li>Coordinate and/or conduct water resources and related environmental outreach/education efforts across the watershed.</li> <li>Communicate water quality conditions to the public and the Partnership in order to support adaptive management and expand public knowledge and participation in the Geronimo and Alligator Creeks project.</li> </ul>						
Project Tasks	Implementation	(1) Project Administration; (2) Facilitate and Promote Watershed Protection Plan					
Measures of Success	<ul><li>Provide technical ass</li><li>Evaluate progress to</li></ul>	<ul> <li>Evaluate progress toward achieving milestones</li> <li>Increase watershed stewardship among Geronimo and Alligator Creeks watershed</li> </ul>					
Project Type	Implementation (X); Edu	cation (X); Planning (); Assessment (); G	roundwater ()				
Status of Waterbody on	Segment ID	Parameter of Impairment or Concern	Category				
2014 Texas Integrated Report	1804A	Bacteria Nitrate-nitrogen	5c CN				
Project Location (Statewide or Watershed and County)	Geronimo Creek in Guad	alupe and Comal Counties					
Key Project Activities	Hire Staff (); Surface Water Quality Monitoring (); Technical Assistance (X); Education (X); Implementation (X); BMP Effectiveness Monitoring (); Demonstration (); Planning (); Modeling (); Bacterial Source Tracking (); Other ()						
2017 Texas NPS Management Program Reference	<ul><li>Component 1 LTG 1</li><li>STG 2, Objective D</li></ul>	<ul> <li>Component 1 LTG 1, Objectives 1, 3, 6, 7</li> <li>STG 2, Objective D</li> </ul>					
Project Costs	Federal \$318,440		otal \$530,734				
Project Management	Texas A&M AgriLife Ex	tension Service, Department of Soil and C	rop Sciences				
Project Period	February 22, 2021 – Octo						

# **Part I – Applicant Information**

Applicant									
Project Lead	ł	Jake Mowrer	ake Mowrer						
Title		Assistant Profess	Assistant Professor & Specialist, Soil Nutrient and Water Resource Management					ment	
Organization	n	Texas A&M Ag	Texas A&M AgriLife Extension Service						
E-mail Add	ress	Jake.mowrer@ta	<u>mu.edu</u>						
Street Addre	ess	Extension Soil a	nd Crop So	ciences					
		2474 TAMU							
City	College Sta	tion	County	Brazos		State	Texas	Zip Code	77843
Telephone Number 979-845-2425			Fax	x Number	979-845-	0604			

Project Co-	Lead	Annalee Epps	Annalee Epps						
Title		Extension Progr	Extension Program Specialist I						
Organizatio	on	Texas A&M Ag	Texas A&M AgriLife Extension Service						
E-mail Add	lress	annalee.epps@	annalee.epps@ag.tamu.edu						
Street Adda	ess	Extension Soil a	nd Crop So	ciences					
		2474 TAMU	_						
City	College St	ation	n County Brazos State			State	Texas	Zip Code	77843
Telephone	Number	979-845-2862			Fax	x Number	979-845-	-0604	

Project Partners	
Names	Roles & Responsibilities
Texas State Soil and Water Conservation Board (TSSWCB)	Provide state oversight and management of all project activities and ensure coordination of activities with related projects and TCEQ.
Texas A&M AgriLife Extension Service, Department of Soil and Crop Sciences (Extension)	Provide project management and oversight. Serve as watershed coordinator, project reporting, provide assistance for stakeholder relations, and support the implementation of the WPP. Provide coordination of ongoing implementation efforts.
Guadalupe-Blanco River Authority (GBRA)	Collaborate with Extension to facilitate the Partnership, provide educational opportunities in the watershed and to interpret and communicate water quality data collected through the Clean Rivers Program.
Geronimo and Alligator Creeks Watershed Partnership	Collaborate as critical local stakeholders and play a lead role in communicating with other local stakeholders.
Comal-Guadalupe Soil and Water Conservation District (SWCD 306)	Collaborate with SWCD 306 to track implementation of BMPs, and to provide equipment and technical assistance.

## **Part II – Project Information**

Project Type							
Surface Water X Grou							
Does the project implement recommendations made in: (a) a completed WPP; (b) an adopted							
TMDL; (c) an approved I-Plan; (							
developed under CWA §320; (e)							
Texas Groundwater Protection S							
If yes, identify the document.							
If yes, identify the agency/group							
developed and/or approved the document.							
Surface WaterXGrouDoes the project implement recoTMDL; (c) an approved I-Plan; (developed under CWA §320; (e)Texas Groundwater Protection SIf yes, identify the document.If yes, identify the agency/group							

Watershed Information				
Watershed or Aquifer Name(s)	Hydrologic Unit Code (12 Digit)	Segment ID	Category on 2014 IR	Size (Acres)
Geronimo Creek (including its tributary, Alligator Creek)	121002020110, 121002020111	1804A	5c	44,152

т т т		of water quality					
impairments or concerns from any of the following sources: Draft 2016 Texas Integrated Report, Clean Rivers Program							
Impairment	Category <b>Category</b>	Year Listed					
bacteria	5c	2006					
nitrate	CS						
ne at the very lo	wermost point of	on Geronimo					
b	bacteria nitrate ne at the very lo pacteria loading	bacteria 5c					

on stakeholder input during WPP development, key potential sources of loading were identified and grouped into three major categories: urban nonpoint sources, on-site wastewater, and agricultural nonpoint sources. Within these three categories, the following sources were identified for management measure development: pet waste, urban stormwater, faulty wastewater collection systems, failing septic systems, livestock (cattle, horses, and goats), and native and non-domestic wildlife. The Spatially Explicit Load Enrichment Calculation Tool (SELECT) was utilized to estimate distributions and degree of contribution of these potential pollutant sources within the watershed.

**2017 GBRA CRP Basin Highlights Reports** - The Clean Rivers Program Basin Highlights Report for the Guadalupe River Basin since 2004 comments on elevated nitrate-nitrogen concentrations suggesting the source appears to be groundwater seepage from the Leona Aquifer. Private wells that have been monitored in the area are shallow and have concentrations in excess of 20 mg/L. In 2015, GBRA partnered with USGS to investigate the source(s) of nitrate in the Plum Creek Watershed and the Geronimo Creek Watershed, in a TSSWCB project titled, *Investigation into* 

*Contributions of Nitrate-Nitrogen to Plum Creek, Geronimo Creek and the Underlying Leona Aquifer.* The final report published in 2017 indicate that sources of nitrate in Geronimo Creek is predominantly from fertilizer applications, as well as from septic systems.

## **Project Narrative**

### Problem/Need Statement

In 2007, the TSSWCB Regional Watershed Coordination Steering Committee, using established criteria, ranked Geronimo Creek in the top 3 watersheds for WPP development. TSSWCB project 08-06 entitled *Development of a Watershed Protection Plan for Geronimo Creek* was begun in June 2008. The project included water quality monitoring, water quality modeling, and WPP development. WPP development was a stakeholder driven process led by Extension with vital support from the GBRA. The Geronimo and Alligator Creeks Watershed Partnership Steering Committee includes local officials, land and business owners and citizens and is supported by state and federal agency partners. With technical assistance from project staff, the Steering Committee identified issues that are of particular importance to the surrounding communities, contributed information on land use and activities that helped determine potential sources of the nutrient and bacteria impairment, and guided development of the WPP. TSSWCB Project 11-06 titled *Water Quality Monitoring in the Geronimo Creek Watershed and Facilitation of the Geronimo and Alligator Creeks Watershed Partnership* provided funding to continue stakeholder meetings in order to complete development of the Geronimo and Alligator Creeks Watershed Partnership provided funding to continue stakeholder meetings in order to complete development of the Geronimo and Alligator Creeks WPP which was approved and signed by the Steering Committee in August of 2012 and accepted by EPA in September of 2012.

Historical data identified the bacteria impairment and a concern for nitrate-nitrogen. Water quality monitoring by GBRA attempted to fill gaps in the historical data in spite of record drought conditions. Routine ambient water quality data are collected at one site (12576) by GBRA as part of the Clean Rivers Program (CRP). Through project 08-06, GBRA conducted an 18-month water quality monitoring task that included an additional seven monthly routine ambient and six targeted stream sites on Geronimo and Alligator Creeks and three tributaries, and quarterly monitoring of two springs, three wells, and the single point source in the watershed. Project 11-06 provided funding to continue water quality monitoring. Results from the water quality monitoring support the continued need for full implementation of the Geronimo and Alligator Creeks Watershed Protection Plan provided funding to continue with implementation efforts, as well as Project 14-08 titled *Coordinating Implementation of the Geronimo and Alligator Creeks Watershed Protection Plan*, which was completed in 2018. Project 17-07 titled *Coordinating Implementation of the Geronimo and Alligator Creeks Watershed Protection Plan*, which was completed in 2018. Project 17-07 titled *Coordinating Implementation of the Geronimo and Alligator Creeks Watershed Protection Plan*, which was completed in 2018. Project 17-07 titled *Coordinating Implementation of the Geronimo and Alligator Creeks Watershed Protection Plan*, which was completed in 2018. Project 17-07 titled *Coordinating Implementation of the Geronimo and Alligator Creeks Watershed Protection Plan*, which was completed in 2018. Project 17-07 titled *Coordinating Implementation of the Geronimo and Alligator Creeks Watershed Protection Plan*, 2020.

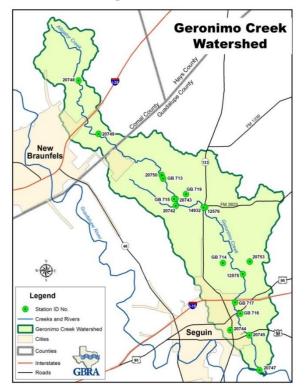
Through the WPP development process, stakeholders identified three categories of potential nonpoint sources of bacteria and nitrate-nitrogen in the watershed: urban, on-site wastewater, and agricultural. SELECT was utilized to estimate distributions and the degree of contribution of these potential pollutant sources within the watershed. Management measures were then identified to address each potential source. The timeline for full implementation of all management measures in the WPP is 10 years; this proposal supports that ongoing process.

An active and involved stakeholder group is essential for successful implementation of the Geronimo and Alligator Creeks WPP. Communication among project stakeholders and agency partners must be actively maintained to make progress and sustain momentum. Collaborative efforts among project partners will be essential to implement management measures for all three key source categories with specific emphasis on measures identified in Tables 8.1 and 8.2 of the WPP. Substantial emphasis also will be needed on education and training to enable all stakeholder groups and agency partners to work effectively toward full implementation of the Geronimo and Alligator Creeks WPP and ultimately to achieve the water quality goals that have been established.

## **Project Narrative**

### General Project Description (Include Project Location Map)

Extension will continue to facilitate the Geronimo and Alligator Creeks Watershed Partnership through coordination with all key stakeholder groups (cities, counties, agricultural groups, local businesses, HOAs, etc.) and partner agencies (GBRA, NRCS, SWCDs, TCEQ, etc.). This will include organizing and conducting public meetings with the Partnership, as well as other planning and implementation meetings, as necessary and appropriate. Extension will promote public participation in meetings, events, and implementation activities through extensive use of various communication mechanisms, including a semi-annual newsletter, news releases, radio and other mass media, the project website, direct telephone, mail and e-mail contact, and social media.



Extension will facilitate collaborative efforts among project partners to implement management measures for all three key categories of nonpoint source pollution: urban, wastewater, and agricultural, including specific emphasis on measures identified in Tables 8.1 and 8.2 of the WPP. In particular, this will include working closely with city and county personnel, as well as local and regional state staff (including the SWCD District Technician funded in a separate grant) and federal agency staff.

Extension will assist governmental and non-governmental organizations in the Geronimo and Alligator Creeks watershed with acquisition of resources to enable WPP implementation. This will include the identification of potential funding sources and assistance with the development of proposals and plans of work to secure supplemental funding from both internal (local) and external (state, federal, etc.) sources, as well as tracking and reporting for successful projects, as appropriate.

Extension will facilitate and coordinate outreach and education activities in the watershed to promote implementation of recommended management measures. This will include active use of local media outlets (newspapers, newsletters, radio, etc.) to

communicate project planning efforts and activities, and development and dissemination of factsheets and other educational resources at public events and through the project website. Extension also will facilitate and/or conduct a wide range of targeted educational programs consistent with the WPP including: a Texas Watershed Steward Training Workshop, urban sector nutrient and pesticide management training, Smart Growth workshops, Master Gardner/Master Naturalist Programs, an annual stream cleanup event, septic system workshops, soil and water testing campaigns and workshops, agriculture nutrient management education, crop management seminars, livestock grazing management education, and feral hog management through TSSWCB Project 15-06 titled *Continued Statewide Delivery of the Lone Star Healthy Streams Program*.

Extension will work with GBRA to track changes in water quality identified through monitoring, communicate results to stakeholders, and facilitate adaptive management activities to continue progress toward addressing nonpoint source water quality concerns in the watershed. GBRA is currently collecting water samples for submission to Texas A&M University Soil & Aquatic Microbiology Laboratory for the purpose of conducting bacterial source tracking (BST) on bacteria found in the samples. Preliminary raw data from this project indicates a large variety of sources are contributing to Geronimo Creek, and reducing inputs from these sources will be explored through this project.

Extension will, at the discretion of SWCD 306, provide cattle radio tracking collars for the purpose of assisting local agricultural producers with identifying cattle grazing patterns. This confidential information could be potentially useful

to the producer to better understand the need for alternative water supplies located upland, and would serve to reduce time cattle spent in or around the creek.

Extension will work to identify landowners with septic systems that are on property adjacent to Geronimo Creek, in light of the most recent BST results and USGS study. Extension will work to assist and encourage proper maintenance of those systems, and identify if repairs are necessary.

Tasks, Objec	tives and Schedule	S							
Task 1	Project Administra	Project Administration							
Costs	Federal	\$47,766	Non-Federal	\$31,844 To		al \$79,610			
Objective	To effectively adm technical and finar				under this	project including			
Subtask 1.1	QPRs shall docum	Extension will prepare electronic quarterly progress reports (QPRs) for submission to the TSSWCB. QPRs shall document all activities performed within a quarter and shall be submitted by the 1 <sup>st</sup> of January, April, July and October. QPRs shall be distributed to all Project Partners.							
	Start Date		Month 1	Completion I	Date	Month 45			
Subtask 1.2	Extension will per Reimbursement Fo	•	· • •		submit ap	ppropriate			
	Start Date		Month 1	Completion I	Date	Month 45			
Subtask 1.3	discuss project act	ivities, project se elop lists of acti	chedule, commun	ication needs, deliv	verables, a	with Project Partners to nd other requirements. ination meeting and			
	Start Date		Month 1	Completion I	Date	Month 45			
Subtask 1.4						conclusions reached of success have been			
	Start Date		Month 1	Completion I	Date	Month 45			
Deliverables		ent Forms and ne	ecessary documen l hard copy formation	tation in hard copy	·				

Tasks, Objec	tives and Schedules						
Task 2	Facilitate and Prome	ote Watershed	Protection Plan Ir	nplementation			
Costs	Federal \$2	270,674	Non-Federal	\$180,450	То	tal	\$451,124
Objective	Facilitate the Geron	imo and Alliga	tor Creeks Waters	shed Partnership ar	nd promo	ote stakeł	nolder
	implementation of t	he WPP.					
Subtask 2.1	Extension will facili	itate the Geroni	imo and Alligator	Creeks Watershed	Partners	ship and o	entities
	identified in the WP	PP and work in	cooperation with	partner agencies to	promote	e plan im	plementation.
	Extension will coor	dinate meetings	s of the Partnershi	p and meetings of	other par	rties, as r	needed.
	Start Date		Month 1	Completion Date		]	Month 45
Subtask 2.2	Extension will assis						
	Creeks watershed in	n identification	and acquisition of	f resources to enable	le WPP i	implemen	ntation.
	Extension will activ	vely seek and pu	ursue funding opp	ortunities and worl	k with pa	artners to	develop grant
	proposals.						
	Start Date		Month 1	Completion D	Date	]	Month 45
Subtask 2.3	Extension will evalu						
	GBRA to assess wa	<b>1</b>	U		0		Ų
	load reductions, and	l provide updat	es to stakeholders	regarding the Ger	onimo ar	nd Alliga	tor Creeks
	WPP.						
	Start Date		Month 1	Completion D	Date	]	Month 45

Subtask 2.4	Extension will facilitate an	nd coordinate education and	nd outreach activities as ide	ntified in the Geronimo						
	and Alligator Creeks WPF	tables 8.1 and 8.2. Spec	ifically, Extension will cont	inue to submit updates,						
	reports, meeting materials	, and other project related	information to GBRA for p	oosting to the Geronimo						
	and Alligator Creeks Watershed Partnership website and publish a semi-annual newsletter. Extension									
	0	will develop and distribute press releases and news articles when warranted to promote implementation								
		*	vities and successes. Extens	<b>.</b>						
	•		vers Program Basin Highlig	*						
	will conduct a series of wo	orkshops targeting key iss	ues, including: one Texas V	Vatershed Stewards						
	workshop, one Lone Star	Healthy Streams program,	, and rainwater harvesting p	orograms (1/year).						
	Extension will collaborate	with NRCS and SWCD 3	306 to conduct educational	events focused on						
	bacteria, nutrient, and pest	icide management for for	age crops (2/year); and, nut	rient, pesticide and						
	sediment management for	row crops (2/year), and p	rovide them with livestock	radio tracking collars to						
	be used at their discretion.	Extension will coordinate	e annual soil testing campai	gns targeting both urban						
	and agricultural fertilizer u	sers in Comal and Guada	lupe Counties. Extension v	will collaborate with						
	project partners to provide	a Smart Growth worksho	op (1 every 2yrs), and Maste	er Gardner/Master						
	Naturalist programs (1/yea	ar). Extension will collabo	brate with GBRA to provide	watershed residents with						
	septic system workshops,	giving focus to identifying	g and providing training to	owners of systems						
			ear). Extension will collabor							
	conduct a stream cleanup	event (1/year). In addition	n, Extension will provide/ d	istribute Geronimo and						
	Alligator Creeks WPP info	ormational materials at all	appropriate area events.							
	Start Date	Month 1	Completion Date	Month 45						
Deliverables	Agendas and attendance	e lists from steering com	mittee meetings, work group	p meetings, educational						
	÷	• Agendas and attendance lists from steering committee meetings, work group meetings, educational workshops, and other events.								
			ied, applied for, and resourd	ces obtained to support						
	plan implementation.	**		**						

• Newsletters, press releases, and other publications developed.

## **Project Goals**

- Coordinate implementation of the Geronimo and Alligator Creeks WPP.
- Inform, educate and encourage active involvement of the public in implementation of the WPP.
- Communicate water quality conditions to the public and Partnership to support adaptive management of the WPP.
- Facilitate the Partnership and foster coordinated activities and actions between and among the cities, counties, GBRA, TSSWCB, local SWCDs, and NRCS.
- Conduct Partnership meetings to provide regular updates on progress, and seek stakeholder input and recommendations on needed activities.
- Develop and/or assist with the development of proposals to acquire funding for implementation of management measures, and with managing and tracking implementation projects. Assist those entities in completing the deliverables required by funded projects.
- Conduct and/or facilitate education and training programs in order to encourage adoption of BMPs.
- Work with state and federal agencies, as appropriate, to secure and optimize the delivery of technical and financial resources for the watershed.
- Track and document implementation efforts to assess progress toward achieving milestones established in the WPP.
- Facilitate public awareness and participation in planning and implementation efforts by actively updating website content and producing a semi-annual newsletter.

### **Measures of Success**

- Technical assistance provided to the Partnership through identification and acquisition of resources and funding for implementation efforts.
- Communication of water quality data to the public and partnership, and use of those data to evaluate progress in achieving water quality restoration.
- Increased knowledge and adoption by citizens, landowners, and agricultural producers of management measures identified in the WPP as a result of outreach and education efforts.
- Development and dissemination of factsheets, news releases, newspaper and magazine articles, and a semiannual newsletter to maintain contact with Geronimo and Alligator Creek stakeholders and promote implementation of the WPP.
- Active management of the project website to announce education and training events, provide project updates, and disseminate educational resources to stakeholders.
- Provide regular updates to the Geronimo and Alligator Creeks Partnership that describe modifications/updates to goals and milestones, and document success in achieving goals and milestones for water quality improvement and load reductions.

### 2017 Texas NPS Management Program Reference

#### Components, Goals, and Objectives

Long-Term Goal One– Protect and restore water quality affected by NPS pollution through assessment, implementation, and education.

- Objective 1 Focus NPS abatement efforts, implementation strategies, and available resources in watersheds and aquifers identified as impacted by nonpoint source pollution.
- Objective 3 Support the implementation of state, regional, and local programs to reduce NPS pollution, such as the implementation of strategies defined in TMDL I-Plans, WPPs, and other water planning efforts in the state.
- Objective 6 Develop partnerships, relationships, memoranda of agreement, and other instruments to facilitate collective, cooperative approaches to manage NPS pollution.
- Objective 7 Increase overall public awareness of NPS issues and prevention activities.
- Short-Term Goal Two Implementation

• Objective D – Implement TMDL I-Plans, WPPs, and other state, regional, and local plans developed to restore and maintain water quality in water bodies identified as impacted by NPS pollution.

#### Short-Term Goal Three – Education

- Objective A Enhance existing outreach programs at the state, regional, and local levels to maximize the effectiveness of NPS education.
- Objective B Administer programs to educate citizens about water quality and their potential role in causing NPS pollution.
- Objective D Conduct outreach through the CRP, AgriLife Extension, SWCDs, and others to enable stakeholders and the public to participate in decision-making and provide a more complete understanding of water quality issues and how they relate to each citizen.
- Objective G Implement public outreach and education to maintain and restore water quality in water bodies by NPS pollution.

### **Estimated Load Reductions Expected**

Estimated load reductions expected from implementing measures identified in the Geronimo and Alligator Creeks WPP, primarily tables 8.1, 8.2, and 8.3.

The overall goal of the Geronimo and Alligator Creeks WPP is to reduce nonpoint source loadings of bacteria (impairment) and nitrate-nitrogen (concern) from identified sources within the watershed. Management measures contained in the WPP focus on bacteria reduction, but by implementing these management measures reductions in nitrate-nitrogen loading also will be realized. This proposal will address nonpoint source loadings from urban, agriculture, and wastewater. Additional load reductions from agricultural nonpoint sources are addressed under a separate project being conducted by the Comal-Guadalupe Soil and Water Conservation District.

In order to calculate estimated load reductions, some assumptions were made. Consistent with Table 8.1, approximately 50% of the pet waste management measures are assumed to be implemented in the first 3 years of implementation. Other urban stormwater management measures are assumed to be equally split among years 1-3, 4-6, and 7-10 of the implementation planning period. The load reduction from the agricultural education component in this proposal is estimated to be 25% of the total load reduction (over the 10 year implementation schedule) from this source category identified in Table 8.3. The remaining 75% is estimated to result from the implementation of WQMPs developed by the Comal-Guadalupe SWCD district technician. Wastewater management measures that are components of sanitary sewer overflow initiatives are assumed to be 50% implemented within years 1-3, and the remaining reductions split equally over the remaining implementation period. Wastewater management measures that deal with septic systems are assumed to achieve a 50% reduction during years 1-3, with the remaining load reduction split equally over years 4-6 and 7-10 of implementation.

	Management Measure	Estimated E. coli Load Reductions Expected (cfu/day)
Pet Waste	Full WPP Implementation	6.38 x 10 <sup>11</sup>
Pet waste	This Project	3.19 x 10 <sup>11</sup>
Urban Stormwater	Full WPP Implementation	1.87 x 10 <sup>12</sup>
Ulban Storniwater	This Project	6.22 x 10 <sup>11</sup>
SSO Initiatives	Full WPP Implementation	1.31 x 10 <sup>9</sup>
SSO minatives	This Project	$6.55 \ge 10^8$
Santia Sustama	Full Implementation	5.02 x 10 <sup>11</sup>
Septic Systems	This Project	2.51 x 10 <sup>11</sup>
Agricultural	Full Implementation	6.24 x 10 <sup>12</sup>
Education	This Project	5.15 x 10 <sup>11</sup>

Participation by individual entities involved in implementation activities is voluntary and dependent upon many factors such as financial ability, available personnel, and political will. Estimated load reductions can be impacted by a variety of factors including BMP placement within the watershed, proximity to a waterway, and weather conditions, etc.

EPA State Categorical Program Grants – Workplan Essential Elements FY 2018-2022 EPA Strategic Plan Reference

Strategic Plan Goal – Goal 1 Core Mission: Deliver a cleaner, safer, and healthier environment for all Americans and future generations by carrying out the Agency's core mission.

Strategic Plan Objective – Objective 1.2 Provide for Clean and Safe Water to ensure waters are clean through improved water infrastructure and, in partnership with states and tribes, sustainably manage programs to support drinking water, aquatic ecosystems, and recreational, economic, and subsistence activities.

# Part III – Financial Information

Budget Summary	7							
Federal	\$	318,	440	9	6 of total p	roject	60%	
Non-Federal	\$	212,	294	9	6 of total p	roject	40%	
Total	\$	530,	734		Total		100%	
Category			Federal			Non-Federal	Total	
Personnel		\$	199,80	)4	\$	81,873	\$ 281,677	
Fringe Benefits		\$	53,68	38	\$	31,202	\$ 84,890	
Travel		\$	10,39	92	\$	0	\$ 10,392	
Equipment		\$		0	\$	0	\$ 0	
Supplies		\$	1,65	50	\$	0	\$ 1,650	
Contractual		\$		0	\$	0	\$ 0	
Construction		\$		0	\$	0	\$ 0	
Other		\$	11,37	0'0	\$	0	\$ 11,370	
Total Direct Costs		\$	276,90	)4	\$	113,075	\$ 389,979	
Indirect Costs ( $\leq 1$	5%)	\$	41,53	86	\$	57,683	\$ 99,219	
Unrecovered IDC					\$	41,536	\$ 41,536	
Total Project Cost	s	\$	318,44	0	\$	212,294	\$ 530,734	

Budget Justification (Federal)					
Category	Total Amount		Justification		
Personnel	\$	199,804	One Extension Program Specialist I and CoPI (\$53,000/yr at 0.5-1.0 FTE total/year for three years), and two Extension Program Specialists (\$51,465 to \$98,201/yr at up to 0.025 FTE each/year for three years) and a student worker (15hrs/wk for 3 yrs \$21,150). PI Extension Associate Professor (\$96,813/yr at 0.083 FTE total years 2 and 3). Professor and Extension Specialist for LID workshops (\$100,113/yr at 0.02 FTE)		
Fringe Benefits	\$	53,688	Fringe benefits are calculated at a rate of 18.2% of salary to cover FICA, UCI, WCI, and retirement. An additional amount of \$746/month (prorated by % FTE) is calculated for group medical insurance. These estimates are in accordance with the TAMUS Office of Budget and Accounting estimating procedures established for FY2020.		
Travel	\$	10,392	<ul> <li>Travel to the watershed to perform project tasks.</li> <li>Watershed coordinator (up to 10 trips per year; car rental/mileage/fuel, hotel, meals/incidentals, parking, at the State rate/year), \$1,938/yr</li> <li>Educators / speakers (up to 2 trips per year; car rental/mileage/fuel, hotel, meals/incidentals, parking, at the State rate-/year), \$475/yr</li> <li>Watershed coordinator participation in state meetings (e.g., Clean Rivers Program Basin Steering Committees, the Texas Watershed Coordinator Roundtables, and the TSSWCB Regional Watershed Coordination Steering Committee) (up to 4 trips total during the project, car rental/mileage/fuel, hotel, meals/incidentals, parking, at the State rate included), \$433.33/yr</li> <li>Support of professional development for the Program Specialist at national and state conferences (up to 1 trip per year for lodging, transportation (either</li> </ul>		
			by state vehicle, rental, or airfare) and per diem airfare, hotel, meals/incidentals, taxi, parking, mileage/fuel at the State rate/year), \$618/yr		
Equipment	\$	0	N/A		
Supplies	\$	1,650	stream cleanup supplies (\$100/yr), printing supplies (\$450/yr)		
Contractual*	\$	0	N/A		
Construction	\$	0	N/A		
Other	\$	11,370	Phone service (\$600/year), advertising (\$1,350/yr), conference registration fees (\$892/year), facility rental for workshops (\$800/year), computer services (\$108/yr), and software licenses/computer services (\$120).		
Indirect	\$	41,536	Reimbursable indirect costs are limited to no more than 15% of total direct costs. State the rate and the base costs associated with the rate. Generally, indirect costs are based on personnel, fringe benefits, travel, supplies, other, and up to \$25,000 of each subcontract.		

Budget Justification (Non-Federal)					
Category	Total Amount		Justification		
Personnel	\$	81,873	Extension Program Director (\$75,000/yr at 0.06-0.08 FTE), Extension District		
			Manager (\$103,796/yr at 0.1 FTE), and three County Extension Agents		
			(Guadalupe and Comal Counties) (\$50,848 to \$73,256/yr at x 0.15 FTEs)		
Fringe Benefits	\$	31,202	Fringe benefits are calculated at a rate of 18.2% of salary to cover FICA, UCI,		
			WCI, and retirement. An additional \$746/month (prorated by % FTE) is		
			calculated for group medical insurance. Estimates are in accordance with		
			TAMUS Office of Budget & Accounting procedures established for FY2015.		
Travel	\$	0	N/A		
Equipment	\$	0	N/A		
Supplies	\$	0	N/A		
Contractual*	\$	0	N/A		
Construction	\$	0	N/A		
Other	\$	0	N/A		
Indirect	\$	57,683	50 -51.5% of Total Non- Federal Direct Costs		
Unrecovered	\$	41,536	Unrecovered Indirect Costs of 15% of Total Direct Costs (difference between		
IDC			project-allowed indirect costs (15%) and the standard Texas A&M AgriLife		
			Extension Service indirect cost rate of (30%).		