

**Texas State Soil and Water Conservation Board  
Clean Water Act §319(h) Nonpoint Source Grant Program  
FY 2021 Workplan 21-07**

SUMMARY PAGE						
Title of Project	Implementing Agricultural Nonpoint Source Components of the Cedar Bayou and Double Bayou Watershed Protection Plans					
Project Goals	<ul style="list-style-type: none"> <li>• Provide technical assistance to agricultural producers for the development of Water Quality Management Plans (WQMPs) and implementation of Best Management Practices (BMPs) and track progress</li> <li>• Revise existing WQMPs in both watersheds</li> <li>• Provide educational programs to increase stakeholders and citizens knowledge about water quality issues in the watershed</li> <li>• Conduct status reviews on WQMPs to track implementation success</li> <li>• Foster coordinated technical assistance activities between TSSWCB, the local SWCD, and NRCS</li> <li>• Inform and coordinate project efforts with the Cedar Bayou and Double Bayou Watershed Steering Committees, Watershed Coordinators, and Feral Hog Extension Assistant</li> </ul>					
Project Tasks	(1) Project administration; (2) Promotion and implementation of the TSSWCB WQMP Program					
Measures of Success	<ul style="list-style-type: none"> <li>• Provide needed technical assistance to agricultural producers;</li> <li>• Development and implementation of WQMPs;</li> <li>• Implementation of management measures outlined in the Cedar Bayou and Double Bayou WPPs;</li> <li>• Reduction in potential pollutant loads of streams from NPS pollution from agricultural operations</li> </ul>					
Project Type	Implementation (X); Education ( ); Planning ( ); Assessment ( ); Groundwater ( )					
Status of Waterbody on 2020 Texas Integrated Report	<u>Segment ID</u>	<u>Parameter of Impairment or Concern</u>	<u>Category</u>			
	0901 Cedar Bayou Tidal 0901A Cary Bayou 0902 Cedar Bayou above Tidal 2422B Double Bayou West Fork 2422D Double Bayou East Fork	Bacteria, Depressed Dissolved Oxygen	5c, 5b			
Project Location (Statewide or Watershed and County)	Cedar Bayou, Double Bayou and their tributaries in Chambers, Harris and Liberty Counties.					
Key Project Activities	Hire Staff (X); 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 style="list-style-type: none"> <li>• Component 1 – Long Term Goal – Objectives 1, 2, 3</li> <li>• Component 1 – Short Term Goal 2 – Objectives A, B, D</li> <li>• Components 2, 3 and 4</li> </ul>					
Project Costs	<u>Federal</u>	\$157,164	<u>Non-Federal</u>	\$0	<u>Total</u>	\$157,164
Project Management	Trinity Bay Soil and Water Conservation District					
Project Period	September 13, 2021 – December 31, 2024					

**Part I – Applicant Information**

Applicant							
Project Lead		Otho Turner					
Title		Chairman					
Organization		Trinity Bay Soil & Water Conservation District					
E-mail Address		trinitybay@swcd.texas.gov					
Street Address		PO Box 1366					
City	Anahuac	County	Chambers	State	Texas	Zip Code	77514-1366
Telephone Number	409-267-3581			Fax Number	409-267-4139		

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.
Trinity Bay Soil and Water Conservation District (SWCD #434)	Supervise one technician. Develop, implement and maintain WQMPs. Conduct status reviews. Responsible for all project deliverables.
Harris County Soil and Water Conservation District (#442) and Lower Trinity Soil and Water Conservation District (#435)	Collaborate with SWCD #434 to promote stakeholder participation in WQMPs and support the work of the technician in the Cedar Bayou and Double Bayou Watersheds.
United States Department of Agriculture-Natural Resources Conservation Service (NRCS)	Support SWCD Technician in the development, implementation, and maintenance of WQMPs. Provide training as necessary to the technician.
Houston Advanced Research Center Houston-Galveston Area Council	Support the SWCD Technician in educational program and resource development and delivery and in maintaining communication with the Steering Committee and Watershed Coordinator.
Cedar Bayou and Double Bayou Watershed Steering Committees	Collaborate as critical local stakeholders and play a lead role in communicating with other local stakeholders.

## Part II – Project Information

Project Type							
Surface Water	X	Groundwater					
Does the project implement recommendations made in: (a) a completed WPP; (b) an adopted TMDL; (c) an approved I-Plan; (d) a Comprehensive Conservation and Management Plan developed under CWA §320; (e) the <i>Texas Coastal NPS Pollution Control Program</i> ; or (f) the <i>Texas Groundwater Protection Strategy</i> ?				Yes	X	No	
If yes, identify the document.		<i>Watershed Protection Plan for Cedar Bayou; Watershed Protection Plan for Double Bayou; Texas Coastal NPS Pollution Control Program</i>					
If yes, identify the agency/group that developed and/or approved the document.		Cedar Bayou-Houston-Galveston Area Council (HGAC); Double Bayou-Houston Advanced Research Center (HARC)		Year Developed	2015		

Watershed Information				
Watershed or Aquifer Name(s)	Hydrologic Unit Code (12 Digit)	Segment ID	Category on 2020 IR	Size (Acres)
Cedar Bayou	12040203	0901; 0902	5c	110,754
Double Bayou	12040202	2422A; 2422B	5b, 5c	89,325

Water Quality Impairment
Describe all known causes (i.e., pollutants of concern) and sources (e.g., agricultural, silvicultural) of water quality impairments or concerns from any of the following sources: <i>2020 Texas Integrated Report</i> , Clean Rivers Program Basin Summary/Highlights Reports, or other documented sources.
The 2020 Texas Water Quality Inventory lists Segment 0901, Cedar Bayou Tidal, list as Category 5c for bacteria, PCBs in edible tissue, and Dioxins in edible tissue.
The 2020 Texas Water Quality Inventory lists Segment 2422B, Double Bayou West Fork as category 5c impaired for Bacteria, PCBs in edible tissue and dioxin in edible tissue and 5a for Depressed Dissolved Oxygen and a Concern for Chlorophyll-a. Additionally, Segment 2422D, Double Bayou East Fork is listed for Bacteria.

## Project Narrative

### Problem/Need Statement

The Cedar Bayou Watershed covers approximately 200 square miles and drains into the Galveston Bay system. The Galveston Bay system is a major economic asset for the City of Houston and the surrounding metropolitan area, as well as being a vital ecological component of the Gulf Coast area. Oyster production, recreational activities, and commercial fishing are significant economic assets of the area. Additionally, the estuaries of Cedar Bayou and surrounding areas are considered a critical wildlife habitat area for migratory birds and other wildlife by the Texas Parks and Wildlife Department, and a large portion of the watershed is considered an environmentally sensitive area in general.

Beginning in 2010, H-GAC, TSSWCB, and a group of local stakeholders engaged in developing a watershed protection plan for Cedar Bayou. This effort happened in conjunction with other local activities, including the PCB/Dioxin TMDLs for the Galveston Bay system, the Oyster Waters TMDL for Galveston Bay, and a variety of efforts by local partners to address various issues contributing to water quality. Over the course of the development process, sources of contamination were identified, and voluntary solutions were proposed to address them. The primary focus was placed on bacteria, given the concurrent TMDL activities for PCBs/dioxins. The draft decisions by the stakeholder group currently call for a variety of bacteria BMPs, targeting multiple sources. The WPP has been completed and submitted to EPA for review.

The Double Bayou watershed is located on the Upper Texas Gulf Coast and is part of the Galveston Bay watershed. Situated in the eastern portion of the Lower Galveston Bay, it is comprised of two main subwatersheds; East Fork and West Fork, which are also the primary waterways in the watershed. The Double Bayou watershed drains directly into the Trinity Bay system and ultimately into Galveston Bay. The majority (93%) of the watershed lies within Chambers County, Texas. The remaining 7% of the watershed is located in Liberty County, Texas. The Double Bayou watershed drains 98 square miles of predominantly rural and agricultural landscape. However, several residential centers are located in the watershed.

Since 2012, GTRI has worked with the USGS and Shead Conservation Solutions with funding from multiple sources to develop a Watershed Protection Plan (WPP) for Double Bayou. Through the WPP process, stakeholders in the Double Bayou watershed including community leaders, elected officials, landowners, nonprofit organizations, and representatives of relevant local, state, and federal agencies met through a series of larger stakeholder meetings and smaller workgroup meetings to collaborate on the development of the WPP. Water quality was monitored on both the East and West Forks throughout the WPP process, and stakeholders were informed about results of the water quality monitoring and analysis. Working with the stakeholders, ideas for water quality management measures were discussed and analyzed by the three main workgroups (Ag/Wildlife/Feral Hog, Recreation/Hunting and WWTF/Septic) for inclusion in the Double Bayou WPP.

As identified during development of the WPPs, agricultural nonpoint sources of pollutant loading may be addressed by implementing best management practices. Agricultural producers, along with SWCDs, TSSWCB and NRCS, have been collaborating to protect the natural resources in Texas for decades. Through the TSSWCB's WQMP Program, farmers and ranchers routinely implement BMPs on their land utilizing financial and technical assistance programs of SWCDs who receive state and federal funds from TSSWCB, EPA, and NRCS. A WQMP is a site-specific plan developed through, and approved by, SWCDs which includes appropriate land treatment practices, production practices, management measures, and technologies that prevent and abate agricultural and silvicultural nonpoint source pollution. The BMPs prescribed in a WQMP are defined in the NRCS Field Office Technical Guide. SWCDs provide technical assistance to producers seeking to develop a WQMP. TSSWCB and NRCS have various financial assistance programs that help producers implement a WQMP. Because of this, and similar programs, the State of Texas has been able to demonstrate major successes in the improvement of water quality conditions through on-the-ground conservation results.

Expanding participation of agricultural producers in WPP implementation is essential to achieve water quality improvement. As an established and well-known local entity, the Trinity Bay SWCD is uniquely situated to engage and

support agricultural producers in watershed restoration and protection efforts, including implementation of appropriate BMPs to address nonpoint source pollution.

Technical support from the Trinity Bay, Harris County and Lower Trinity SWCDs and NRCS personnel is critical for proper selection and placement of appropriate management measures on individual agricultural properties. However, due to the number of management plans that will be needed, a new position dedicated specifically to WQMP development in the watershed will be necessary to provide direct assistance to agricultural producers, with emphasis on the sources and geographical areas within the watershed identified through the Cedar and Double Bayou WPPs.

## **Project Narrative**

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

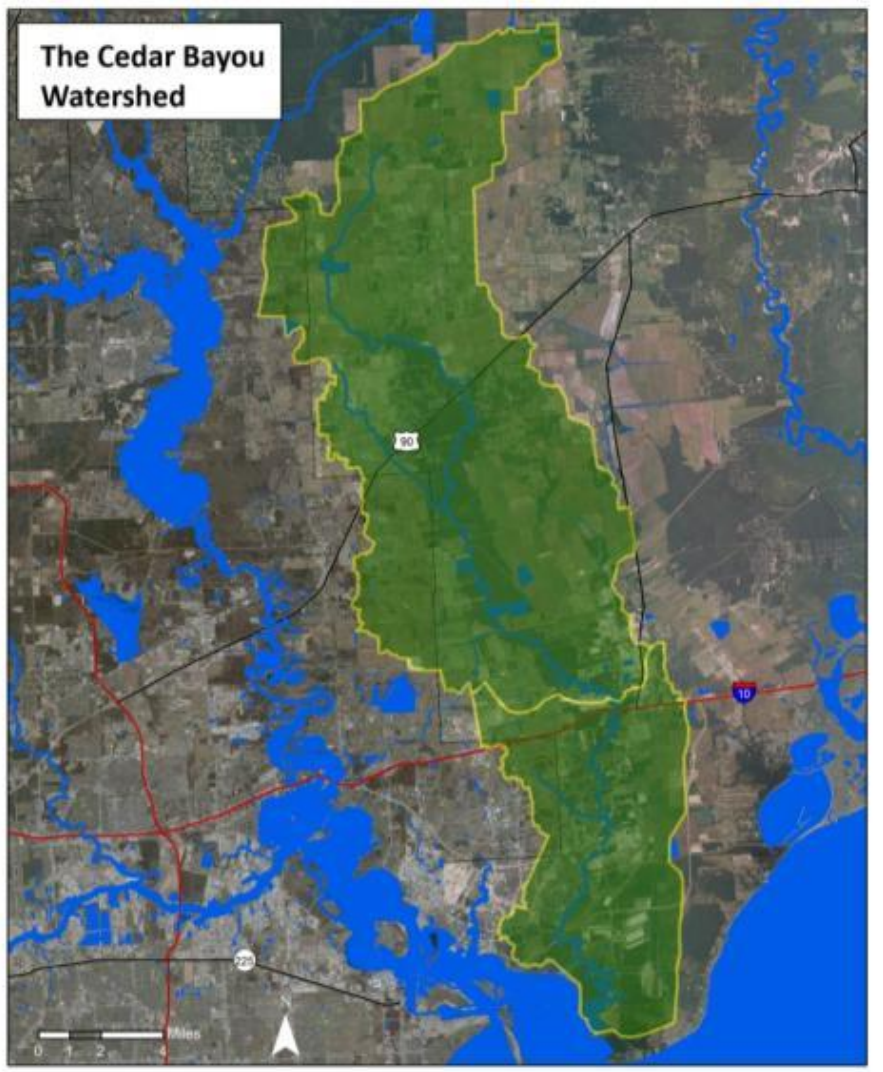
A comprehensive watershed approach focused on the most significant potential sources of NPS pollution contributing to the current impairments was used for WPP development. Recommended BMPs were identified for implementation by the Steering Committee, focus groups and partner agencies. This project provides funding to support implementation of recommended agricultural management measures identified for action in the WPP during the 10-year implementation schedule.

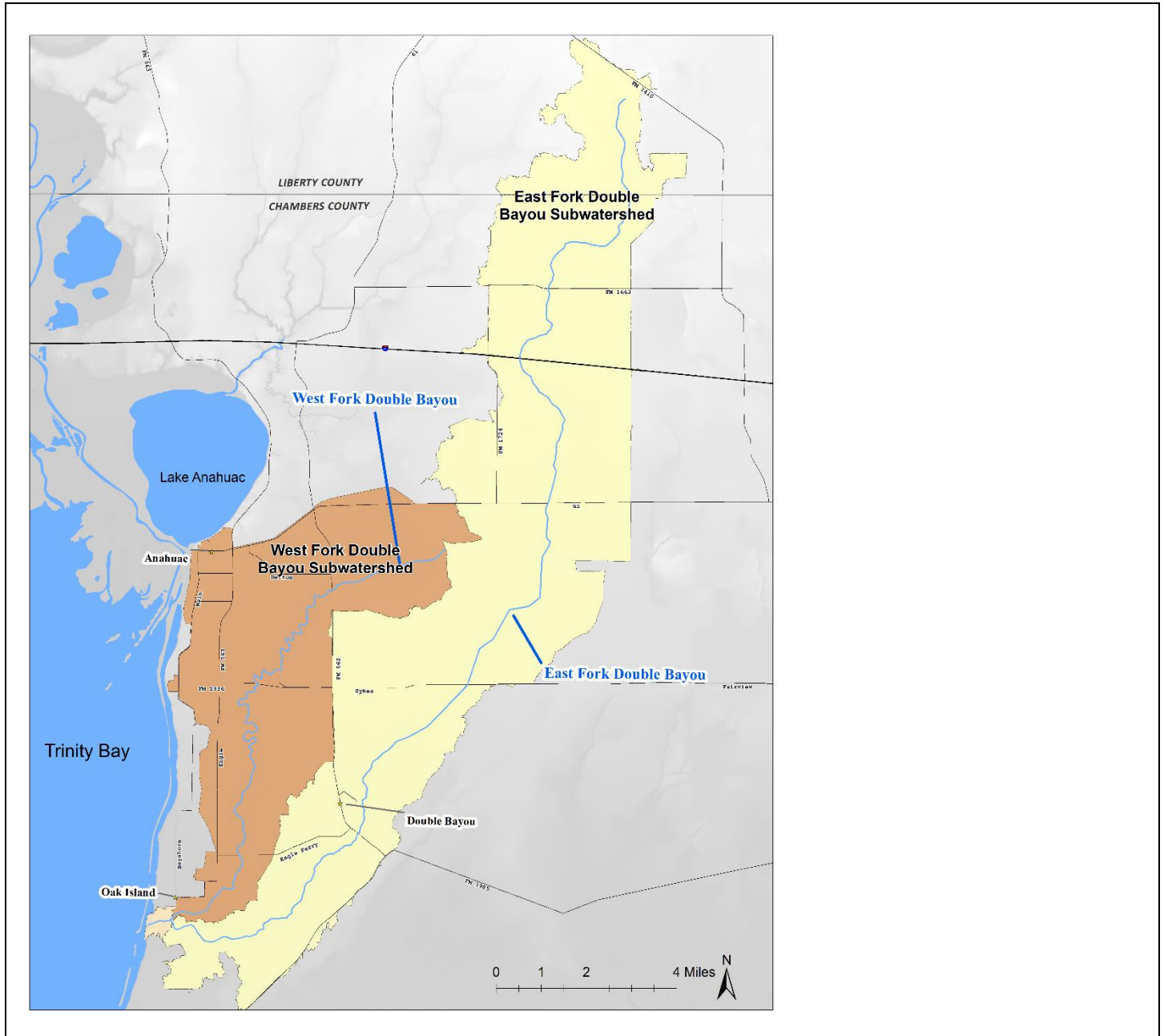
To achieve this goal, the TSSWCB will administer federal CWA §319(h) funds through the Trinity Bay SWCD #434 for support of one District Technician who will provide technical assistance to agricultural producers in developing and implementing WQMPs and Prescribed Grazing Plans in the Cedar Bayou and Double Bayou Watersheds. WQMPs are developed according to the NRCS Field Office Technical Guide. Once the WQMP is developed, it will be sent to the appropriate TSSWCB regional office for technical review and certification. Upon certification of the WQMP, the District Technician will work with the landowners to implement the BMPs prescribed in the WQMP.

The District Technician will be placed in the Trinity Bay SWCD office and will work under the direction of the SWCD, with assistance from the TSSWCB, Trinity Bay, Harris County, and Lower Trinity SWCDs, NRCS, and Watershed Coordinators, as needed. The District Technician also will assist landowners in applying for and obtaining financial incentives to aid in implementation of BMPs prescribed in WQMPs.

The District Technician will conduct annual status reviews on all WQMPs developed and certified through the course of this project to ensure that landowners implement BMPs as specified and agreed to in the WQMP implementation schedule. The District Technician will track utilization of obligated financial incentives and assist landowners in utilizing these funds on schedule. The District Technician will complete an aggregate final report which describes the success of the project including WQMPs developed, BMPs implemented, and financial incentives funds obligated and utilized.

The District Technician also will work with TSSWCB, NRCS and the Watershed Coordinator to educate agricultural producers about water quality issues and how WQMPs and BMPs address NPS pollution from agriculture. The Technician will work with commodity organizations, such as Texas and Southwestern Cattle Raisers Association (TSCRA), Independent Cattlemen's Association of Texas (ICA), Texas Farm Bureau (TFB), and others to educate their members about how BMPs can protect and enhance the value of their operation and achieve water quality goals for the watershed at the same time. The Technician will cooperate and communicate with the Cedar Bayou and Double Bayou Watershed Steering Committees in order to effectively and efficiently achieve project goals and to summarize activities and achievements made throughout the course of this project.





Tasks, Objectives and Schedules						
Task 1	Project Administration					
Costs	Federal	\$15,773	Non-Federal	\$0	Total	\$15,773
Objective	To effectively administer, coordinate and monitor all work performed under this project including technical and financial supervision and preparation of status reports.					
Subtask 1.1	The Trinity Bay SWCD 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 Date:	Month 40		
Subtask 1.2	The Trinity Bay SWCD will perform accounting functions and will submit appropriate Reimbursement Forms to TSSWCB at least monthly.					
	Start Date:	Month 1	Completion Date:	Month 40		
Subtask 1.3	The Trinity Bay SWCD will host coordination meetings or conference calls with the TSSWCB Project Manager, and TSSWCB Field Representative, at least quarterly, to discuss project activities, project schedule, communication needs, deliverables, and other requirements. The Lower Trinity SWCD will develop lists of action items needed following each project coordination meeting and distribute to project personnel.					
	Start Date:	Month 1	Completion Date:	Month 40		
Subtask 1.4	Trinity Bay SWCD will complete one financial audit during the project period.					
	Start Date:	Month 1	Completion Date:	Month 40		
Subtask 1.5	The Trinity Bay SWCD will develop a final report at the culmination of the project. At a minimum the Final Report shall describe the success of the project including WQMPs developed and BMPs implemented.					
	Start Date:	Month 1	Completion Date:	Month 40		
Deliverables	<ul style="list-style-type: none"> <li>• Quarterly Progress Reports in electronic format</li> <li>• Reimbursement forms and necessary documentation in hard copy format</li> <li>• Final Report in electronic and hard copy formats</li> </ul>					



<b>Tasks, Objectives and Schedules</b>						
Task 2	Promotion and Implementation of the TSSWCB WQMP Program					
Costs	Federal	\$141,391	Non-Federal	\$0	Total	\$141,391
Objective	To promote WQMP development and implementation, encourage participation, and provide technical assistance to agricultural producers for the development and implementation of WQMPs. Promote the availability of financial incentives to support BMP implementation. Track implementation of WQMPs to achieve load reductions as identified in the Cedar Bayou and Double Bayou WPPs.					
Subtask 2.1	The Trinity Bay SWCD will hire one District Technician to promote, develop, and implement WQMPs.					
	Start Date:	Month 1	Completion Date:	Month 40		
Subtask 2.2	The District Technician will identify landowners in priority areas to distribute notifications announcing the availability of technical assistance and financial incentives for developing and implementing WQMPs. The District Technician will develop and distribute flyers, brochures, letters, news releases and other appropriate promotional publications to encourage participation from agricultural producers. TSSWCB must approve all announcements, letters and publications prior to distribution.					
	Start Date:	Month 1	Completion Date:	Month 40		
Subtask 2.3	The District Technician will work with TSSWCB, NRCS and the Cedar Bayou and Double Bayou Watershed Coordinators to educate producers about water quality issues and how WQMPs and BMPs address pollutant contamination from agriculture.					
	Start Date:	Month 1	Completion Date:	Month 40		
Subtask 2.4	The District Technician will work with commodity organizations, such as Texas and Southwestern Cattle Raisers Association (TSCRA), Independent Cattlemen's Association of Texas (ICA), and Texas Farm Bureau (TFB), to educate their members on this opportunity to enhance the value of their operation and achieve water quality goals for the watershed at the same time.					
	Start Date:	Month 1	Completion Date:	Month 40		
Subtask 2.5	The District Technician, with assistance from NRCS and TSSWCB, will assist landowners in the development of WQMPs and associated Prescribed Grazing Plans. The District Technician will develop at least 2 WQMPs but shall strive to develop additional WQMPs beyond the 2.					
	Start Date:	Month 1	Completion Date:	Month 40		
Subtask 2.6	The District Technician, with assistance from NRCS and TSSWCB, will assist landowners in applying for and obtaining financial incentives to aid in implementation of BMPs prescribed in WQMPs. \$75,000 in CWA §319(h) funding (TSSWCB project 21-02) is available as financial incentive through the TSSWCB WQMP Program. Landowners shall be eligible to receive a maximum financial incentive amount of \$30,000 from the TSSWCB §319(h) funds. The maximum financial incentive rate shall not exceed 60% of the cost of implementation of the BMPs. The remaining 40% will be provided by the landowner. Financial incentives will be based on actual costs not to exceed the average cost of the practice.					
	Start Date:	Month 1	Completion Date:	Month 40		
Subtask 2.7	The District Technician will prioritize WQMP development and financial incentive applications consistent with the priority areas identified in the WPP.					
	Start Date:	Month 1	Completion Date:	Month 40		
Subtask 2.8	The District Technician will conduct annual status reviews on all WQMPs developed and certified through the course of this project and any existing WQMPs (certified prior to this project) in the Cedar and Double Bayou watersheds to ensure that landowners implement BMPs as specified and agreed to in the WQMP implementation schedule. The District Technician will document any follow-up technical assistance needed or necessary modifications to the WQMP implementation schedule.					
	Start Date:	Month 1	Completion Date:	Month 40		

Subtask 2.9	The District Technician will track utilization of obligated financial incentives. The District Technician, with assistance from TSSWCB and NRCS, will assist landowners in utilizing obligated financial incentives on schedule.			
	Start Date:	Month 1	Completion Date:	Month 40
Subtask 2.10	The District Technician will create a spreadsheet and map describing and showing the location of all WQMPs developed and BMPs implemented through the project. The map will not reveal the identity or exact location of any producer.			
	Start Date:	Month 1	Completion Date:	Month 40
Subtask 2.11	The District Technician will meet monthly with the Trinity Bay SWCD and as needed with Harris County and Lower Trinity SWCDs and other parties to efficiently and effectively achieve project goals; summarize activities and achievements made throughout the course of this project; and discuss project activities, project schedule, communication needs, deliverables, and other requirements.			
	Start Date:	Month 1	Completion Date:	Month 40
Subtask 2.12	The District Technician will cooperate and communicate with the Cedar Bayou and Double Bayou Watershed Coordinators in order to efficiently and effectively achieve project goals and to summarize activities and achievements made throughout the course of this project. Specifically, the District Technician will, at least, participate in any stakeholder meetings held under the auspices of the Cedar Bayou and Double Bayou Watershed stakeholders.			
	Start Date:	Month 1	Completion Date:	Month 40
Deliverables	<ul style="list-style-type: none"> <li>• Promotional and educational publications, as developed and distributed</li> <li>• Status reviews for WQMPs</li> <li>• Map of project area showing location of WQMPs developed; map will not reveal the identity of any landowner</li> </ul>			

**Project Goals (Expand from Summary Page)**

- Provide technical assistance to agricultural producers for the development of Water Quality Management Plans (WQMPs) and implementation of Best Management Practices (BMPs) and track progress
- Provide educational programs to increase stakeholders and citizens knowledge about water quality issues in the watershed
- To conduct status reviews on WQMPs to track implementation success
- To foster coordinated technical assistance between TSSWCB, SWCDs and NRCS
- Inform and coordinate project efforts with the Double Bayou and Cedar Bayou Watershed stakeholders and Watershed Coordinators

**Measures of Success (Expand from Summary Page)**

- Provide needed technical assistance to agricultural producers
- Development and implementation of WQMPs
- Implementation of agricultural management measures outlined in the Double Bayou and Cedar Bayou WPPs
- Reduction in potential pollutant loads of streams from NPS pollution from agricultural operations

**2017 Texas NPS Management Program Reference (Expand from Summary Page)**

**Components, Goals, and Objectives**

Component One – Explicit short- and long-term goals, objectives and strategies that protect surface and ground water. Long-Term Goal – 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 2 – Support the implementation of state, regional, and local programs to prevent NPS pollution through assessment, implementation, and education.
- 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..

Short-Term Goal Two – Implementation – Coordinate the NPS Program to support the implementation of TMDL I-Plans ...and other state, regional, and local plans/programs to reduce NPS pollution ...[by] target[ing] implementation activities to the areas identified as impacted

- Objective A – Work with regional and local entities to determine priority areas and develop and implement strategies to address NPS pollution in those areas.
- Objective B – Develop and implement BMPs to address constituents of concern or waterbodies not meeting water quality standards in watersheds identified as impacted by NPS pollution
- Objective D – Implement TMDL I-Plans, WPPs, and other state, regional, and local plans developed to restore and maintain water quality in waterbodies identified as impacted by NPS pollution.

Short-Term Goal Three – Education – Conduct education and technology transfer activities to increase awareness of NPS pollution and activities which contribute to the degradation of water bodies, including aquifers, by NPS pollution

- Objective A – Enhance existing outreach programs at the state, regional, and local levels to maximize the effectiveness of NPS education.
- 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.

Component Two – Working partnerships and linkages to appropriate state, regional, and local entities, private sector groups, and federal agencies.

Component Three – Balanced approach that emphasizes both statewide NPS programs and on-the-ground management of individual watersheds.

Component Four – Abatement of water quality impairments from NPS pollution and prevention of significant threats to water quality from present and future NPS activities.

**Estimated Load Reductions Expected (Only applicable to Implementation Project Type)**

Estimated load reductions expected from implementing this project are based on information in the Cedar Bayou and Double Bayou WPPs.

The goals of the Cedar Bayou and Double Bayou WPPs are to reduce nonpoint source loadings of bacteria (impairment) from identified sources within the watershed. Management measures contained in the WPPs focus on bacteria reduction, but through implementing the management measures, reductions in nutrient loading will also be realized. This proposal will address nonpoint source loadings from agricultural nonpoint sources through development of Water Quality Management Plans for agricultural operations in the watersheds. Currently there are 9 certified WQMPs in the Cedar Bayou watershed, and 29 in the Double Bayou Watershed.

In order to calculate estimated load reductions, we assumed that, consistent with Subtask 2.5, all 2 WQMPs to be implemented are assumed to be in subwatersheds with the greatest number of operations, operations with the greatest number of animal units, and particularly those located closest to streams and drainage areas. The load reduction from the District Technician agricultural education component in this project is consistent with the total load reduction (over the 10 year implementation schedule).

Participation in the TSSWCB WQMP Program by individual ranchers and farmers is voluntary. The decision to participate is based on a number of factors, including the producer's ability to provide the cost-share match (40% in this project). Adoption of BMPs and participation in the WQMP Program by producers is highly dependent on the success or failure of outreach and education initiatives and social marketing campaigns. Effectiveness of particular BMPs in reducing pollutants is dependent on a myriad of factors, including natural weather phenomena and the ability of producers to correctly install, operate, maintain or manage the BMP. There will be complementary nitrogen and sediment load reductions achieved from livestock and cropland WQMPs, and supplementary bacteria load reductions achieved from livestock and cropland WQMPs. With these factors accounted for, the estimated load reductions to be expected, as presented above, should be regarded as the "best case scenario" with probability that actual load reductions achieved will be less.

The mechanism for reporting pollutant load reductions achieved through implementation of BMPs funded with CWA §319(h) monies is through the EPA Grants Reporting and Tracking System (GRTS). Actual load reductions achieved can only be reported after the BMPs are installed and operational.

**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**

<b>Budget Summary</b>			
Federal	\$ 157,164	% of total project	100%
Non-Federal	\$ 0	% of total project (≥ 40%)	0%
Total	\$ 157,164	Total	100%
Category	Federal	Non-Federal	Total
Personnel	\$ 130,309	\$ 0	\$ 130,309
Fringe Benefits	\$ 11,141	\$ 0	\$ 11,141
Travel	\$ 9,174	\$ 0	\$ 9,174
Equipment	\$ 0	\$ 0	\$ 0
Supplies	\$ 2,540	\$ 0	\$ 2,540
Contractual	\$ 4,000	\$ 0	\$ 4,000
Construction	\$ 0	\$ 0	\$ 0
Other	\$ 0	\$ 0	\$ 0
Total Direct Costs	\$ 157,164	\$ 0	\$ 157,164
Indirect Costs (≤ 15%)	\$ 0	\$ 0	\$ 0
Total Project Costs	\$ 157,164	\$ 0	\$ 157,164

<b>Budget Justification (Federal)</b>		
Category	Total Amount	Justification
Personnel	\$ 130,309	1 full-time technician for 3 years (\$130,309)
Fringe Benefits	\$ 11,141	Fringe benefits calculated
Travel	\$ 9,174	5,000 miles/yr @ state rate (\$8,400) Per diem @ \$46/day and hotel expenses @ \$83/night for 6 overnight trips (\$774)
Equipment	\$ 0	N/A
Supplies	\$ 2,540	Office supplies include pens, pencils, paper, printer cartridges, folders, envelopes, mailing labels, flash drives, etc. for SWCD @ \$15/month for 3 years (\$540,); laptop and printer @ \$2,000
Contractual*	\$ 4,000	Financial audit for Trinity Bay SWCD
Construction	\$ 0	N/A
Other	\$ 0	N/A
Indirect	\$ 0	N/A

<b>Budget Justification (Non-Federal)</b>		
Category	Total Amount	Justification
Personnel	\$ 0	N/A
Fringe Benefits	\$ 0	N/A
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	\$ 0	N/A

