

Carters and Burton – Implementation Activities **Year 4 Check In**

Management Measures:

Responsible Parties	Implementation Measure	Implementation Milestones	Current Status
TCEQ NPS Program: <ul style="list-style-type: none"> • Funding 	<ul style="list-style-type: none"> • Coordinate and expand existing water quality monitoring in the watershed 	<ul style="list-style-type: none"> • Funding provided Schedule: Year 4: <ul style="list-style-type: none"> • If needed, conclude watershed monitoring and reconnaissance project. • Maintain Carters Creek Water Quality website. • Present project findings to watershed stakeholders. 	<ul style="list-style-type: none"> • Funded and in process • TWRI is monitoring <hr/> Monitoring continues and is scheduled through February 2015 <hr/> This has been completed and a second round has been initiated. <hr/> Yr. 4: Intensive monitoring completed in Summer/Fall 2015; monitoring transitioned to volunteer effort only in Fall 2016. Volunteers will monitor key areas identified during intensive sampling
TWRI: <ul style="list-style-type: none"> • project management, reporting, data collection 	<ul style="list-style-type: none"> • Coordinate and expand existing water quality monitoring in the watershed 	See above	<ul style="list-style-type: none"> • Monitoring was initiated in May 2013 and is continuing monthly • Volunteers are being trained (there are currently about 65 students) • There is a need for storm sampling, but that is dependent on the weather • Monitoring continues as planned • Planned number of storm samples to be collected reached • Project report will be drafted next spring <hr/> Same as year two. <hr/> Yr 4: Water quality reports from initial project complete and published as TWRI-485, 486, and 488
NRCS & AgriLife Extension: <ul style="list-style-type: none"> • technical assistance 	<ul style="list-style-type: none"> • Determine the water quality impacts of (1) modifications to tax valuation requirements for agricultural lands and (2) of transitioning from agriculture to wildlife valuations 	<ul style="list-style-type: none"> • Tax requirement discussions complete. • Educational material dissemination discussed. Schedule: Year 4: <ul style="list-style-type: none"> • If permissible, continue to provide educational materials to Brazos County Appraisal District for mailing. • If funded, complete work to define potential water quality changes because of land-use change from Ag to Wildlife uses. 	<ul style="list-style-type: none"> • This doesn't seem to be feasible, and might not be as necessary as previously believed, given the ongoing changes in the watershed <hr/> No further action, as tax office has declined the idea <hr/> No changes. <hr/> Yr 4: No changes.

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<p>TWRI:</p> <ul style="list-style-type: none"> Seek funding support 	<ul style="list-style-type: none"> Determine the water quality impacts of (1) modifications to tax valuation requirements for agricultural lands and (2) of transitioning from agriculture to wildlife valuations 	<ul style="list-style-type: none"> Same as above 	<ul style="list-style-type: none"> The institute has been working with an ag/econ professor on this, and they can't find anything yet, but there may be other opportunities An OSSF education grant application for 319 funding was submitted for FY14 <hr/> <ul style="list-style-type: none"> No funding sources identified for ag to wildlife valuation study OSSF education grant submitted in FY 14 not funded, resubmitted in FY 15 <hr/> <p>There is still no funding available, but it is discussed twice per year.</p> <hr/> <p>Yr. 4: No change. No suitable funding sources identified</p>

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<p>Brazos County Health Dept.:</p> <ul style="list-style-type: none"> • technical assistance, lead entity on all items. 	<ul style="list-style-type: none"> • Work to improve OSSF identification, inspection, pre-installation planning, education, operation, maintenance, and tracking to ensure proper system functioning 	<p>Schedule:</p> <p>Year 4:</p> <ul style="list-style-type: none"> • Complete efforts to identify all OSSFs in watershed; add new OSSFs to database as constructed. • Following amendment/establishment of ordinance requiring inspections on all OSSFs, begin notifying all OSSF owners of inspection requirements. • Implement OSSF sizing requirements following ordinance amendment. • Continue monitoring OSSF inspections as required by county ordinance. 	<ul style="list-style-type: none"> • Plans to work with TWRI on the GIS mapping database • The department has been going to cluster OSSF systems and checking them in person • Some properties might be joining with the city lines, but more information is needed on the city being able to cover these costs <hr/> <ul style="list-style-type: none"> • Working with the City of Bryan on GIS mapping database, and TWRI has already started • Visits to OSSFs outside city limits, as they're aware of the ones inside city limits • Putting things together for outreach and education, but need an opportunity to distribute <hr/> <p>Same as year two, and they are hiring someone to work on this (investigations, follow-ups).</p> <hr/> <ul style="list-style-type: none"> • Up-to-date on all of the OSSFs located in the watershed, identified systems that are abandoned, or have been replaced by sanitary sewer, and removed them from the database, and tracking new systems by address and GPS coordinates. • Hired a new inspector, and now seeing a huge uptick in compliance. • Discussions with county attorney, commissioners and count judge regarding sizing requirements, and they are interested in creating increased requirements for commercial septic systems. • In addition to increased enforcement of contract filings and compliance issues, also begun to enforce on service providers that we either not fulfilling their contract requirements or not filing service reports on time.

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<p>TWRI:</p> <ul style="list-style-type: none"> Seek funding; develop & administer focused project 	<ul style="list-style-type: none"> Work to improve OSSF identification, inspection, pre-installation planning, education, operation, maintenance, and tracking to ensure proper system functioning 	<p>Schedule:</p> <p>Year 4:</p> <ul style="list-style-type: none"> Deliver OSSF E&O as needed through identified mechanisms. 	<ul style="list-style-type: none"> In progress, and present coordination with BCHD OSSF identification and estimation effort continues Outcome will be included in report developed next spring <hr/> <p>They are developing a proposal to deliver this state-wide. It includes online education, homeowner training, hands on training for technical service providers, and targets elected officials for outreach.</p> <hr/> <p>Yr. 4: Statewide education and outreach proposal was not funded. Not resubmitted for funding consideration in FY 16. Is not considered priority in 319 funding program. Navasota WPP currently in development includes needs in this implementation measure and once accepted by EPA, will increase priority for 319 funding.</p>

<p>City Of Bryan:</p> <ul style="list-style-type: none"> • implement and fund its SSO initiative. <p>City Of College Station:</p> <ul style="list-style-type: none"> • Implement and fund its SSO initiative. 	<ul style="list-style-type: none"> • Implement sanitary sewer overflow (SSO) initiatives as appropriate across the watershed. 	<p>Schedule:</p> <p>Years 3+:</p> <ul style="list-style-type: none"> • Inflow and infiltration studies completed to target repairs • # SSO incidents tracked; cause and source identified • # of repairs documented and tracked • GIS of SSO initiative actions • # of E&O materials disseminated. • # of customers reached by E&O material delivery. 	<p>Bryan:</p> <ul style="list-style-type: none"> • The initiative is active and being maintained – there have been PSAs, over 1000 sewer stops, repairs to private lines, and many miles of pipelines have been cleaned <p>College Station:</p> <ul style="list-style-type: none"> • The initiative is active and being maintained – there have been PSAs, • See email if more details are needed. <p>Both Cities: GIS mapping with TWRI was started, but has been stalled. This might be able to get started back up</p> <hr/> <p>City of Bryan:</p> <ul style="list-style-type: none"> • # of sewer stops 977 • SSO response time 41:16 minutes • 27.8 miles of sewer pipe smoke tested; 151 cleanouts replaced, 74 private side defects repaired, 31 public defects identified, 20 manhole defects identified. Repair to public assets are made based on CIP planning and/or severity of damage • 124 manholes repaired • 195 grease traps inspected • All SSO sources identified, work orders documented in GIS and work order management system <p>City of College Station:</p> <ul style="list-style-type: none"> • Active line-cleaning work orders on spills, smoke testing and rehab program. <hr/> <p>CoB: 856 sewer stops, 19 cleanouts, 911 repairs, 202 manholes repaired, 234 grease trap inspections, etc.</p> <p>CoCS developed and submitted a plan to regional headquarters, but was informed it was unnecessary. They are working through similar programs as CoB on their own accord.</p> <hr/> <p>CoB: 846 sewer stops, 19 cleanouts, 190 private defects identified and repaired, 87 public defects identified and repaired, 76 miles of sewer pipe inspected, 189 grease traps inspected. Sewer services expanded along Highway 21. 29 septic tanks were removed from service and connected to the public line.</p> <p>CoCS: YR 4 (Sept 2015 – Aug 2016): CoCS has a work order system that tracks SSO incidents, smoke testing, repairs and rehab projects. This system can then be manipulated to determine areas based off date, type of work, etc as well as be mapped on GIS.</p>
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<p>Agencies (TPWD, TSSWCB, NRCS, Brazos Co. SWCD #450)</p> <ul style="list-style-type: none"> provide technical & financial assistance as available. 	<ul style="list-style-type: none"> Voluntary BMP implementation on private properties 	<p>Schedule: Year 4:</p> <ul style="list-style-type: none"> Make contact with priority 3 landowners informing them about availability of voluntary BMP implementation assistance program and need for participation. Continue working with willing landowners to develop and implement property-specific plans to improve water quality. Continue delivering E&O as appropriate. 	<p>YR 4 (Sept 2015 – Aug 2016): PSAs on City TV channel and utility bill inserts are part of the CoCS E&O activities.</p> <hr/> <ul style="list-style-type: none"> TSSWCB – no active BMPs, but ag land is declining in the watershed Prioritizing has been done, but nothing more since then <p>There are no BMPs that they know of as of now, but TPWD might be a resource for that (not present at meeting)</p> <hr/> <p>Lucas can check with TSSWCB and TPWD on this.</p> <p>One conservation plan was developed by NRCS this year. The following education and outreach events were held in the area:</p> <ul style="list-style-type: none"> Feral hog program: Sept 4, 2015: Bryan, TX Fall Cattle Clinic: Oct. 30, 2015: Bryan, TX Keeping a Happy, Healthy Horse: March 22, 2016: College Station, TX OD Butler Field Day (land management): May 27, 2016: Franklin, TX
<p>Brazos County</p> <ul style="list-style-type: none"> Ordinances in unincorporated areas of the county. Participating in assessment of local awards program. Planning/ delivery/ participation in E&O activities. 	<ul style="list-style-type: none"> Continue existing, and work to establish, mechanisms that encourage and promote future development and redevelopment that will mitigate adverse water quality impacts in the watershed 	<p>Schedule: Year 4:</p> <ul style="list-style-type: none"> Documentation of awards given annually. Winners publicly announced via available information outlets. Documentation of ordinance or rule modifications in support of SWMPs. Documentation of coordinated E&O activities held jointly between entities. 	<ul style="list-style-type: none"> No awards program – more information/assistance needed Active MS4 outreach BrazosCleanWater.org shows the outreach efforts and education including household hazardous waste programs and clean ups <hr/> <p>Developed newsletter for City of College Station planning and development that recognizes folks/businesses doing good practices for water quality improvement</p> <hr/> <p>Cleanwater.org is still up, and the program is continuing.</p> <p>Participated in Earth Day this year and brought out 300 lollipops with the Brazos Clean Water logo and website on them. Continue to do Water Quality Information Training throughout the county.</p>

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<p>COB</p> <ul style="list-style-type: none"> • Ordinances in city's jurisdiction. • Participating in assessment of local awards program. • Planning/ delivery/ participation in E&O activities. 	<ul style="list-style-type: none"> • Continue existing, and work to establish, mechanisms that encourage and promote future development and redevelopment that will mitigate adverse water quality impacts in the watershed 	<p>Schedule: Year 4:</p> <ul style="list-style-type: none"> • Documentation of awards given annually. • Winners publicly announced via available information outlets. • Documentation of ordinance or rule modifications in support of SWMPs. • Documentation of coordinated E&O activities held jointly between entities. 	<ul style="list-style-type: none"> • No awards program – more information/assistance needed • Active MS4 outreach • BrazosCleanWater.org shows the outreach efforts and education including household hazardous waste programs and clean ups <hr/> <ul style="list-style-type: none"> • \$5899 expensed in E&O materials and print • New brochure on property management and code enforcement created (English and Spanish) • PSA on building codes launched • New ordinance created for mobile food vending and revised oil & gas well ordinance • Submitted new SWMP for coverage under General Permit. Received preliminary approval from TCEQ Exec. Director for permit. Permit should be issued within 45 days <hr/> <p>Both CoCS and CoB: working on ordinance and policy changes to issue fines and stop permitting processes, building permits, etc. when necessary.</p> <p>CoB also printed project highlights in local newspaper and had a one hour call-in time to talk about wastewater, targeting Hispanic populations.</p> <hr/> <p>CoB and CoCS: working on ordinance and policy changes to issue fines and stop permitting processes, building permits, etc. when necessary.</p>

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<p>COCS</p> <ul style="list-style-type: none"> • Ordinances in city's jurisdiction • Participating in assessment of local awards program. • Planning/ delivery/ participation in E&O activities. 	<ul style="list-style-type: none"> • Continue existing, and work to establish, mechanisms that encourage and promote future development and redevelopment that will mitigate adverse water quality impacts in the watershed 	<p>Schedule: Year 4:</p> <ul style="list-style-type: none"> • # of acres tracked that are considered or are enrolled in 'Greenways' program. 	<ul style="list-style-type: none"> • No awards program – more information/assistance needed • Active MS4 outreach • BrazosCleanWater.org shows the outreach efforts and education including household hazardous waste programs and clean ups • Developed newsletters to acknowledge activities completed and a watershed tour of these for students <hr/> <ul style="list-style-type: none"> • Earth day activities, using utility bills to send educational materials (proven effective through responses) <hr/> <p>See above.</p> <p>YR 4 (Sept 2015 – Aug 2016): CoCS has issued no storm water ordinance changes in Yr4. However changes have been made to policy to issuing fines, and stop permitting processes when in violation including building permits, construction permits, etc. when necessary.</p> <p>YR 4 (Sept 2015 – Aug 2016): CoCS did not buy any acreage for the Greenways during Yr4 however worked on improving owned Greensways within the City. Currently, CoCS owns 650 acres of greenway.</p> <p>YR 4 (Sept 2015 – Aug 2016): A&M lectures, BrazosCleanWater.org, storm water and water quality education materials at public offices, utility bill inserts, household hazardous waste programs, organization of volunteer clean ups, and participation in Keep Brazos Beautiful awards program were all part of the CoCS E&O activities.</p>

Control Actions:

Responsible Parties	Implementation Measure	Implementation Milestones	Current Status
<p>Brazos County</p> <ul style="list-style-type: none"> Implementing its SWMP. Completing annual SWMP report. Revising and keeping its MS4 permit current. Coordinating with other MS4 entities. 	<ul style="list-style-type: none"> Implement entity-specific MS4 Phase II SWMPs throughout the watershed 	<p>Schedule:</p> <p>Year 4:</p> <ul style="list-style-type: none"> Annual reports to TCEQ documenting progress in implementing MCMs and BMPs. Actions of meetings documented and brazoscleanwater.org updated. Documentation of E&O efforts. # of E&O materials delivered. # of people/households reached through E&O efforts. 	<ul style="list-style-type: none"> The permit expired and now waiting on TCEQ to approve new permit See efforts through Brazos Clean Water program <hr/> <p>Permit submitted</p> <hr/> <p>Approved.</p> <hr/> <p>Current with existing MCMs and BMPs in our MS4 Report but, have not added any new ones.</p>
<p>COB</p> <ul style="list-style-type: none"> Implementing its SWMP. Completing annual SWMP report. Revising and keeping its MS4 permit current. Coordinating with other MS4 entities. operating Burton Creek WWTF. 	<ul style="list-style-type: none"> Implement entity-specific MS4 Phase II SWMPs throughout the watershed Continue monitoring WWTF effluent E. coli levels according to individual permit requirements 	<p>Schedule:</p> <p>Year 4:</p> <ul style="list-style-type: none"> Annual reports to TCEQ documenting progress in implementing MCMs and BMPs. Actions of meetings documented and brazoscleanwater.org updated. Documentation of E&O efforts. # of E&O materials delivered. # of people/households reached through E&O efforts. 	<ul style="list-style-type: none"> Monitoring is occurring and levels are looking good <hr/> <p>Permit resubmitted, should be renewed soon</p> <hr/> <p>Approved.</p> <hr/> <p>CoB adopted changes to its Municipal Stormwater Protection Ordinance expanding responsibilities and limitations for construction activities.</p>
<p>COCS</p> <ul style="list-style-type: none"> Implementing its SWMP. Completing annual SWMP report. Revising and keeping its MS4 permit current. Coordinating with other MS4 entities. Operating Carters Creek and Carter Lake WWTFs. 	<ul style="list-style-type: none"> Implement entity-specific MS4 Phase II SWMPs throughout the watershed Continue monitoring WWTF effluent E. coli levels according to individual permit requirements 	<p>Schedule:</p> <p>Year 4:</p> <ul style="list-style-type: none"> Annual reports to TCEQ documenting progress in implementing MCMs and BMPs. Actions of meetings documented and brazoscleanwater.org updated. Documentation of E&O efforts. # of E&O materials delivered. # of people/households reached through E&O efforts. <p>Schedule:</p> <p>All Years:</p> <ul style="list-style-type: none"> Operate their permitted discharges in accordance with their individual permits. Report <i>E. coli</i> levels in effluent as required by permit. 	<ul style="list-style-type: none"> Monitoring is occurring and levels are looking good <hr/> <p>Permit renewed in December</p> <hr/> <p>Approved.</p> <hr/> <p>YR 4 (Sept 2015 – Aug 2016): MS4 and City permits approved and current. State required recording complete and on file.</p>

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<p>Texas A&M</p> <ul style="list-style-type: none"> Implementing its SWMP. Completing annual SWMP report. Revising and keeping its MS4 permit current. Coordinating with other MS4 entities. operating the Texas A&M Central Utility. 	<ul style="list-style-type: none"> Implement entity-specific MS4 Phase II SWMPs throughout the watershed Continue operating the TAMU Central Utility according to individual permit requirements 	<p>Schedule:</p> <p>Year 4:</p> <ul style="list-style-type: none"> Annual reports to TCEQ documenting progress in implementing MCMs and BMPs. Actions of meetings documented and brazoscleanwater.org updated. Documentation of E&O efforts. # of E&O materials delivered. # of people/households reached through E&O efforts. <p>Schedule:</p> <p>All Years: Operate their permitted discharges in accordance with their individual permits.</p>	<ul style="list-style-type: none"> See efforts through Brazos Clean Water program Developed construction inspection program The permit expired and now waiting on TCEQ to approve new permit Outfall inspections are occurring Burton creek will have a stream clean event <hr/> <ul style="list-style-type: none"> SWMP has been implemented (revised and renewed, sent to TCEQ June 2014) Reports are done annually and submitted to TCEQ Construction inspection program has been established. All projects that disturb earth are inspected by EHS every two weeks New MS4 permit approved December 2013 <hr/> <p>Approved.</p> <ul style="list-style-type: none"> The annual meeting date was changed. Running ads year-round to advertise this. There is a working group for environmental compliance. They are focusing on construction permits and providing education about environmental impacts. <hr/> <ul style="list-style-type: none"> Permitted discharges have been operated in accordance with the permits. E&O materials were distributed during regular campus events such as Sustainability Day, Texas Recycles Day, Earth Day, and others.

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<p>TxDOT Bryan District</p> <ul style="list-style-type: none"> • Implementing its SWMP. • Completing annual SWMP report. • Revising and keeping its MS4 permit current. • Coordinating with other MS4 entities. 	<ul style="list-style-type: none"> • Implement entity-specific MS4 Phase II SWMPs throughout the watershed 	<p>Schedule:</p> <p>Year 4:</p> <ul style="list-style-type: none"> • Annual reports to TCEQ documenting progress in implementing MCMs and BMPs. • Actions of meetings documented and brazoscleanwater.org updated. • Documentation of E&O efforts. • # of E&O materials delivered. • # of people/households reached through E&O efforts. • 	<ul style="list-style-type: none"> • See efforts through Brazos Clean Water program • TCEQ received annual report with all MS4 information needed – checklist included <hr/> <ul style="list-style-type: none"> • There was an evidentiary file review with no findings. • The state-wide permit will be reviewed later this year. <hr/> <ul style="list-style-type: none"> • The annual report was submitted to TCEQ Austin HQ and Waco on November 7, 2016 • Participated with Brazos Clean Water at Earth Day 2016 and website. • Education materials delivered to construction site personnel for two project. • Participation with website http://www.brazoscleanwater.org/. • Delivered information through Statewide advertising http://dontmesswithtexas.org/

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<p>TCEQ</p> <ul style="list-style-type: none"> Ensuring permit compliance & enforcement. 	<ul style="list-style-type: none"> Ensure permit compliance for MS4s and TPDES permittees 	<ul style="list-style-type: none"> Perform inspections as required by permit <p>Schedule:</p> <ul style="list-style-type: none"> Receive and review annual reports for MS4s Perform inspections as required Review discharge monitoring data to ensure permit compliance 	<ul style="list-style-type: none"> No MS4s inspections this year, but FY14 for both College Station and Bryan For TPDES the following comprehensive compliance investigations were completed: City of Bryan Burton Creek WWTP, WQ0010426001 (3/7/13), City of College Station Carter Lake WWTP, WQ0013153001 (5/7/13); and Texas A&M Power Plant, WQ00040020000 (11/13/12) All necessary annual reports were submitted for MS4s <hr/> <p>For TPDES the following comprehensive compliance investigations were completed:</p> <ul style="list-style-type: none"> -Bryan Burton Creek WWTP, WQ0010426001 (10/14/14) -City of College Station Carter Lake WWTP, WQ0013153001 (5/7/13) -Texas A&M Power Plant, WQ0004002000 (11/13/12) -Carters Creek WWTP, WQ0010024006 (5/7/14) -Glenn Oaks MHP, WQ0012296001 (5/5/15) <p>For MS4 the following reconnaissance investigations were completed:</p> <ul style="list-style-type: none"> -City of College Station MS4, TXR040008 (11/8/13) -City of Bryan MS4, TXR040336 (11/8/13) -Texas A&M University MS4, TXR040237 (11/8/13) <hr/> <p>For TPDES the following comprehensive compliance investigations were completed:</p> <ul style="list-style-type: none"> -Bryan Burton Creek WWTP, WQ0010426001 (7/7/16) -Carters Creek WWTP, WQ0010024006 (2/23/16) -Glenn Oaks MHP, WQ0012296001 (3/22/16) <p>For MS4 the following comprehensive compliance investigations were completed:</p> <ul style="list-style-type: none"> -City of College Station MS4, TXR040008 (Will be conducted 2nd Quarter FY17) -City of Bryan MS4, TXR040336 (Will be conducted 2nd Quarter FY17) -Texas A&M University MS4, TXR040237 (4/26/16)

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<p>Owner/operator of Glen Oaks WWTF</p> <ul style="list-style-type: none"> operates WWTF 	<ul style="list-style-type: none"> Continue monitoring WWTF effluent E. coli levels according to individual permit requirements 	<ul style="list-style-type: none"> operate WWTF in compliance with permit <p>Schedule:</p> <p>All Years:</p> <ul style="list-style-type: none"> Operate their permitted discharges in accordance with their individual permits. 	<ul style="list-style-type: none"> Difficult to contact – can look at TCEQ records of compliance and complaints to check on this Records showed compliance <hr/> <p>No new information.</p> <p>The facility has reported discharge monitoring data quarterly, starting in May 2015, and there have been no violations.</p>