

Beaverdam Creek Watershed Management Plan July 2016





Beaverdam Creek Watershed Management Plan

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The purpose of developing the Beaverdam Creek Watershed Management Plan is to provide a tool that demonstrates a holistic approach to water quality management by actively engaging stakeholders within the watershed in the selection of management strategies that will be implemented to solve the problems.

This document is not regulatory. Its preparation process engages stakeholders to recognize issues and provide feedback on how to deal with them, as well as to develop momentum and contribute to the restoration effort. The Watershed Partnership (WP) identified the following goal of this plan's implementation:

GOAL: Improve the Beaverdam Creek watershed's water quality to meet state standards.

After sampling events in 1999, the Georgia Environmental Protection Division (GA EPD) listed four stream segments in the Beaverdam Creek watershed on the Georgia 303(d) list of impaired water bodies and in 2002 developed Total Maximum Daily Load (TMDL) Implementation Plans addressing fecal coliform¹ for two stream segments of Richland Creek in the Beaverdam Creek watershed in Greene County: Richland Creek from I-20 to Little Creek and Richland Creek upstream of Greensboro to I-20. In 2003, GA EPD developed a TMDL Implementation Plan, also addressing fecal coliform, for two additional stream segments in the same Beaverdam Creek watershed: Beaverdam Creek from Oliver Creek to Lake Oconee and Town Creek from SR 15 to Richland Creek. The TMDL Evaluation establishes the allowable pollutant loadings or other quantifiable parameters for a water body based on the relationship between pollutant sources and instream water quality conditions. Water quality standards for fecal coliform and sediment limit the amount of pollution allowed to load into a river or stream. If a stream does not meet water quality standards, a TMDL is established for that pollutant. Implementation tools, such as watershed-based plans, are then developed as guides to reduce the pollutants loading into the stream from various (point and nonpoint) sources and restore the water body so that it meets water quality standards.

The TMDL Evaluations identified a four-mile segment of both Town and Beaverdam creeks as well as a twelvemile segment of Richland Creek as not supporting its designated use of fishing. See Appendix 1, Map 1. In order to meet state water quality standards, the following load reductions are required:

- ! Beaverdam Creek 75 percent
- ! Town Creek 60 percent
- ! Richland Creek (Greensboro to I-20) 94 percent
- ! Richland Creek (I-20 to Little Creek) 20 percent

In 2003, a Revised TMDL Implementation Plan for Town Creek and Beaverdam Creek was developed. The revised implementation plan attributes non-point source (NPS) loads to cattle with direct access to streams, high impact areas with runoff directly connected to streams, leaking or damaged sewer lines (in Greensboro), urban runoff, storm sewers, illicit discharges, and leaking or failed septic tanks.

Analysis of the Town and Beaverdam creeks revised implementation plan identified the following steps for load reduction:

- ! continued implementation of proposed ordinance adoptions and revisions;
- ! detailed targeted sampling to localize the source of pollutants;
- ! implementation of urban and agricultural BMPs specific to identified sources;
- ! educational outreach regarding agricultural BMPs and septic tank maintenance; and,
- ! evaluation of the effectiveness of plan implementation utilizing the BASINS model.

The TMDL Implementation Plan for Richland Creek, 2001, attributes non point source loads to malfunctioning septic tanks, illicit direct discharge of residential or commercial wastewater into tributary streams, animal waste from livestock, pets, and wildlife, and storm water runoff.

¹ Georgia Department of Natural Resources, TMDL Implementation Plan for Richland Creek, March 26, 2001.

Georgia Department of Natural Resources, Revised TMDL Implementation Plan for Town Creek and Beaverdam Creek, April 2003.

Analysis of the Richland Creek implementation plan identified the following steps for load reduction:

- Formation of a watershed team representing Greene County, Greensboro, public works, NRCS, Cooperative Extension, Greene County Health Department, and Greene County Environmental Codes Enforcement to work on fecal coliform reduction;
- Pormation of a stakeholder's group to identify issues of concern, offer input to and feedback on plans, participate in outreach education, and recruit support from the community;
- ! Educational outreach on sources of urban and agricultural fecal coliform contamination and minimizing the impact of fecal coliform bacteria on stormwater;
- ! Compiling additional data to support plan development;
- ! Water quality monitoring to identify potential fecal coliform sources to target for abatement;
- ! Ranking potential sources of contamination;
- ! Evaluation of need for and feasibility of adopting a septic tank inspection ordinance; and,
- ! Funding for urban and agricultural BMP practices.

Based on a review of existing TMDL Evaluations and TMDL Implementation Plans, the WP defined the following objectives that could lead to successful goal attainment of this Plan.

OBJECTIVES:

- Establish Watershed Partnership as long-term committee charged with working with responsible agencies and public to implement Watershed Management Plan.
- Long-term monitoring to provide current data to support decision-making.
- Identification of potential contaminant sources.
- Implementation of management practices to reduce E.coli contamination from identified sources.
- Manage growth so that it does not negatively effect overall water quality or improvements made through implementation of this watershed management plan.
- Promotion of public awareness, understanding, and stewardship through public education and training opportunities for the general population and government agencies.

As the Watershed Management Plan was developed, specific actions were identified and designed to meet the specific objectives thus insuring that the proposed actions could objectively achieve the goals of the Beaverdam Creek Watershed Management Plan.

This Plan's development relied upon the participation of a Watershed Partnership (WP) which represented the Beaverdam Creek watershed and consisted of property owners, staff from Greensboro and Greene County, and regional, state, and federal agencies that would assist with plan implementation. Meetings were held with the WP on the following dates to engage the public in the process of designing an implementation plan: October 6, 2015, November 10, 2015, February 9, 2016, and May 10, 2016. Meetings focused on gathering input concerning potential problems and solutions, developing priorities, evaluating what BMPs might be met with the best public reception, and obtaining insight on the watershed management plan. Finally, approval was sought for the document to serve as the plan on which implementation efforts will follow to restore and maintain the watershed. See Appendix II for list of WP members.

Based on the TMDL Evaluations, TMDL Implementation Plans, current water quality monitoring, visual survey, land use, tax assessor data, and WP input, the potential causes of water quality impairment were determined as follows:

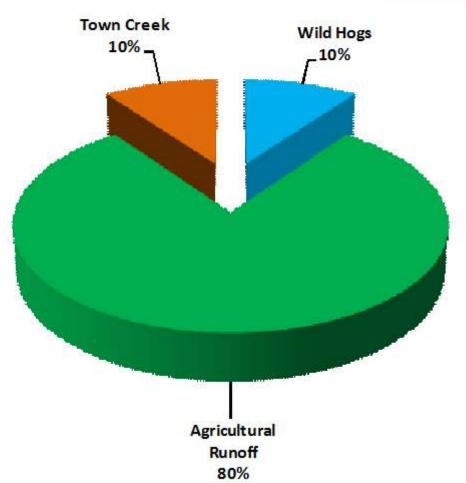
Identified Impairment	Potential Source/Cause	
	Agricultural practices	
Fecal Coliform	Leaking septic systems	
	Leaking sewerage lines (Greensboro)	
	Urban runoff from impervious surfaces	
	Runoff from commercial practices	
	Wild Hogs	
	Runoff from EPD-permitted operations	
	Natural sources	

Table 1: Beaverdam Creek Watershed Potential Sources of Contamination

Percentage of Possible Pollution Source/Cause

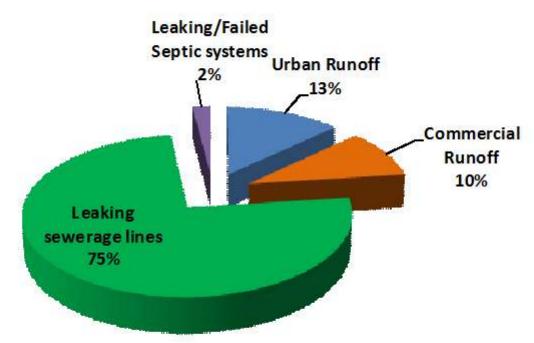
After reviewing the pre-BMP 2015/16 water quality monitoring data, land use, and input from WP members, the following stream segments were identified as the most critical areas of concern for impacting water quality in the Beaverdam Creek watershed:

- ! Richland Creek segment between its confluence with Town Creek and intersection with Highway 44.
 - " Area of moderate concern.
 - " Possible, though limited, contamination from Town Creek.
 - " Agricultural runoff.
 - " Wild hog population upstream of Richland Creek at Highway 44 monitoring site.



Richland Creek

- ! Town Creek upstream of Martin Luther King Jr. Dr.
 - " Area of high concern
 - " Urban runoff from impervious surfaces though, without specific testing at storm water outfalls, it is difficult to gage the true impact of the runoff on water quality.
 - " Leaking or failed septic tanks.
 - " Leaking sewerage lines (primary suspected source of contamination).
 - " Runoff from commercial operations (Plant Nursery and Quail Plantation in northern portion of watershed).

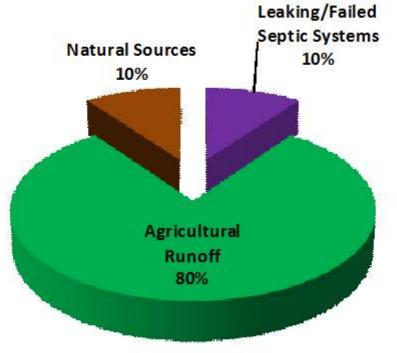


Town Creek

! Beaverdam Creek

- " Area of moderate concern above Ga Hwy 15; area of low concern below Ga Hwy 15.
- " Agricultural runoff.
- " Leaking or failed septic tanks.
- " Natural sources.

Beaverdam Creek



Through implementation of urban and agricultural BMPs, the short-term goal is to improve water quality in each impaired stream a minimum of 20 percent resulting in an anticipated adjustment in the TMDL Implementation Plan required load reductions as follows:

- o Beaverdam Creek reduce from 75% to 60%
- o Town Creek reduce from 60% to 48%
- o Richland Creek (upstream of Greensboro to I-20) reduce from 20% to 16%
- o Richland Creek (I-20 to Little Creek) reduce from 94% to 75%.

Long-term, the goal is for each impaired stream segment to meet state water quality standards.

V. Assessment and Characterization of Current Conditions

The Beaverdam Creek watershed contains 77,849.07 acres of agricultural and forested land primarily in Greene County and residential, commercial, and industrial lands in and adjacent to the City of Greensboro and Lake Oconee.

The Beaverdam Creek watershed is comprised of four major streams, Richland Creek, Town Creek, Beaverdam Creek and Stewart's Creek, each fed by numerous first- and second-order tributaries.

Richland Creek's headwaters begin north-west of Union Point. From there, it meanders west- southwest through extensive forest and agricultural land in unincorporated Greene County, through northwest Greensboro, then continues south where it is joined by Town Creek and continues to the Lake Oconee embayment south of SR 44.

Town Creek's headwaters are on an agricultural parcel in the vicinity of Interstate 20 and Liberty Church Road. The creek flows west-southwest through agricultural and forest lands in Greene County and then flows through commercial land in south-western Greensboro before it joins Richland Creek as it flows under Interstate 20.

Beaverdam Creek begins southwest of Union Point and flows southwest through agricultural and forest lands in Greene County and continues to the Lake Oconee embayment northeast of Walker's Church Road.

There are several significant wetland areas in the watershed, including adjacent to Bowden Creek, Beaverdam Creek between Highway 15 and Veazey Road, and adjacent to Lake Oconee.

Within the Beaverdam Creek watershed are four impaired stream segments:

- Beaverdam Creek,
- Town Creek,
- Richland Creek (Greensboro to I-20), and
- Richland Creek (I-20 to Little Creek).

The segments are identified in Georgia's 305(b)/303(d) list as not supporting their designated use of fishing due to non-point source fecal coliform contamination. The designation of these segments as "not supporting" due to fecal coliform contamination are based on sampling data from 2004 by Georgia Department of Natural Resources, Environmental Protection Division's (GA EPD) at the following sampling stations:

- Beaverdam Creek at County Road 66
- Town Creek at Highway 44
- Richland Creek at Georgia Highway 15
- Richland Creek at Interstate 20

Physical and Natural Features

<u>Hydrology</u>

The Beaverdam Creek watershed is comprised of five, HUC-12 watersheds, numbers 030701011101, 030701011102, 030701011103, 030701011104, and 030701011105, 48.99 miles of major streams, 218.76 miles of minor streams, and 3,888.30 acres of lakes. Small ponds are scatted throughout the watershed.

Stream Buffers

To help protect water quality, the state mandates wooded stream buffers of at least 25' on each side of the stream bank. Based on a review of 2015 aerial photographs, wooded buffers (see Appendix 1, Map 2) are adequate throughout much of the watershed, along the main channel as well as its tributaries with the exception of the following:

Penfield Road at Richland Creek (monitoring site 7). There is reduced or no vegetative buffer adjacent to the stream and bank erosion is evident. Likely prior stream access by livestock, upstream and downstream, from both sides of stream. However, as of January, 2016, the fence on the property northeast of the stream crossing has been removed likely indicating that livestock will no longer be kept on the property. Additionally, no livestock have been observed on the property to the southeast of the stream crossing.

Fencing crosses Richland Creek on the west side of Penfield Road. Livestock on property in the northwest quadrant of the stream crossing have access to the stream.



Richland Creek, upstream, at Penfield Road, aerial photograph, 2015.

<u>Soils</u>

All of the Beaverdam Creek watershed is contained within the Southern Piedmont Major Land Resource Area (MLRA). Dominant soils of the Southern Piedmont have mostly clayey subsoils and kaolinitic mineralogy. Well-drained very gently sloping to strongly sloping Appling, Cecil, Davidson, Hiwassee, Madison, Pacolet, and Wedowee series are found on uplands. Ashlar, Gwinnett, Louisburg, Madison, Pacolet, Wedowee, and Wilkes series are located on the steeper slopes.

In some localities, these soils contain coarse fragments. Cartecay, Chewacla, Congaree, Toccoa and Wehadkee series are in alluvial flood plains. Erosion control is important when cultivating these soils.

Soils of the Piedmont are acidic and low in nitrogen and phosphorus. In many cases, much of the original topsoil has been eroded leaving the clayey subsoil exposed. The less steep slopes and areas where the topsoil has not been completely eroded are adapted to corn, cotton, soybean, and grain sorghum production. Although row crops are productive in this region, the area is better adapted to pasture production.

More than 42 percent of the soils in the Beaverdam Creek watershed are Cecil, Lloyd, and Hard Labor-Appling series soils.² The Cecil and Lloyd series are well-drained and have moderate permeability. The Hard Labor-Appling service is moderately well drained. All three series soils are found on very gentle to gentle slopes and are suited to farming and responds well to good management practices.

The following table depicts the Beaverdam Creek watershed generalized soils and provides a general description of the soil associations found in the watershed. See Appendix 1, Map 3.

Soil Series	Characteristic	Acres	Percent
Altavista	Moderately well- drained	102.66	0.14
Cataula	Moderately well- drained	19.06	0.03
Cataula-Cecil	Moderately well- drained	1948.38	5.22
Cecil	Well-drained	21397.01	28.30
Cecil-Cataula	Well-drained to moderately well- drained	1038.80	1.37
Chewacla	Somewhat poorly drained	5150.39	6.81
Chewacla and Congaree	Somewhat poorly drained	714.43	0.95
Hard Labor-Appling	Moderately well- drained	8663.06	11.46
Hard Labor-Cecil	Moderately well- drained	602.88	0.80
Helena	Moderately well- drained	3405.35	4.50
Lloyd	Well-drained	10783.70	14.26
Mecklenburg- Crawfordville	Well-drained to somewhat poorly drained	3902.82	5.16
Mecklenburg- Prosperity-Helena	Well-drained to moderately well- 812.00 drained		1.07
Mecklenburg- Sedgefield	Well-drained to somewhat poorly drained	663.47	0.88

Table 2: Beaverdam Creek Soils

² USDA Soil Conservation Service and Forest Service, Web Soil Survey, Greene County, GA.

P			
Mecklenburg- Wynott	Well-drained	212.42	0.28
Pacolet	Well-drained	6702.46	8.87
Pacolet-Cataula	Well-drained	1604.73	2.12
Pits, quarries	NA	53.25	0.07
Prosperity-Helena- Bush River	Moderately well- drained	204.13	0.27
Rock outcrop	NA	5.43	0.01
Sedgefield- Crawfordville	Somewhat poorly drained	961.63	1.27
Water	NA	4067.81	5.38
Wehadkee	Poorly drained	348.90	0.46
Wickham	Well-drained	232.56	0.31

Source: - Geospatial Data Gateway. Originator: U.S. Department of Agriculture, Natural Resources Conservation Service, 2015; Soil Survey of Greene County, USDA NRCS; 2013.

LAS/NPDES Permits

According to GA EPD, there are no active NPDES permits in the watershed. However, there are several LAS permits.

- ! City of Greesnboro, Water Pollution Control Plant.
- Piedmont Water Company³
 Piedmont Water Company owns and operates two facilities which are each advanced wastewater treatment reuse facilities permitted by GA EPD.
 - " Carey Station Water Reuse Facility (WRF), Permit GAJ030883. The facility is located at 4610 Carey Station Road, Greeneboro, GA in Greene County.
 - Oconee Crossing Water Reuse Facility (WRF), Permit GAJ030683. The facility is located at 165 McGillivray Lane, Eatonton, GA in Putnam County.

The Carey Station facility's treatment train consist of screening, vertical loop aeration reactors, clarifiers, filtration, U.V. disinfection and aerobic sludge digestion. The Oconee Crossing facility's treatment train consists of screening, Orbal aeration basins, clarifiers, filtration, U.V. disinfection, and aerobic sludge digestion. Both facilities are permitted for 0.5 MGD.

Typical operations consist of removing liquid sludge from the facilities' digesters into a 3,000 gallon tanker truck and transporting and land applying the sludge at Copeland Farms located at 3701 Lake Oconee Parkway, Greensboro, GA. The approved land application site consist of approximately 154 acres of farmland divided into four separate fields. Biosolids are applied as an agricultural resource at or below agronomic rates for the liquid biosolids generated at both facilities. The biosolids are applied to the hay and pasture land for total or partial replacement of commercial nitrogen and phosphorus.

³Piedmont Water Company, Carey Station WRF (GAJ03–0883) and Oconee Crossing WRF (GAJ03–0632) Land Application of Sewage Sludge, Sludge Management Plan, Program Overview, 2009.

The actual amount of biosolids applied is dependent upon the nutrient requirement of the specific crop being grown and the nutrient content of the biosolids. Biosolid application is prohibited within 100 feet of perennial streams and other surface water except intermittent stream. For intermittent streams and drainage ditches, the minimum distance to the application area is 25 feet.

Both the biosolids and application sites soils are sampled at specific intervals to assure the beneficial utilization of the material for agricultural production and to confirm that the application program is not creating any environmental hazard.

A copy of the Sludge Management Plan is found in Appendix II.

According to the 2015 Annual Report submitted to GA EPD for the two permits, application rates from each WRF were as follows:

Carey Station				Oconee Crossing			
Date	Volume (gallons)	Field	Weather Conditions	Date	Volume (gallons)	Field	Weather Conditions
01.21.15	3000	1	clear	01.22.15	21000	1	clear am overcast pm
03.17.15	3000	2	clear	03.18.15	18000	2	clear
04.08.15	3000	2	clear	09.16.15	18000	3	partly cloudy
04.09.15	3000	2	clear	09.17.15	21000	3	clear
04.24.15	3000	2	clear	12.07.15	15000	2	clear
05.05.15	3000	2	clear				
05.07.15	3000	1	clear				
05.08.15	3000	1	clear				
05.11.15	3000	1	clear				
05.13.15	10500	1	overcast				
09.22.15	3000	3	rain				
09.23.15	18000	3	overcast				
09.24.15	27000	3	cloudy/rain				
12.01.15	27000	2	cloudy				
12.04.15	6000	2	clear				
12.09.15	15000	2	clear				

Table 3: Sludge Management Plan Application Rates, 2015

<u>Climate</u>

The Beaverdam Creek watershed is characterized by mild winters and hot summers. Average annual precipitation is 47.11 inches per year with 53 percent of precipitation occurring from April through October. Precipitation occurs chiefly as rainfall, and to a lesser extent, as snowfall.⁴

The warmest month of the year is July with an average maximum temperature of 91.60 degrees Fahrenheit, while the coldest month of the year is January with an average minimum temperature of 32.00 degrees Fahrenheit.⁵

<u>Habitat</u>

This watershed's ecosystem provides habitat for diverse species of aquatic and terrestrial wildlife including white-tailed deer, opossum, raccoon, a variety of songbirds, fox, horned owl, timber rattlesnake, turtle, frog, salamanders, and a variety of fish.

Groundwater Recharge Areas

The Georgia Department of Natural Resources mapped areas of high, average (or medium), and low susceptibility of groundwater to pollution in Georgia. This map is commonly known as Hydrologic Atlas 20 or the Groundwater Pollution Susceptibility Map of Georgia. The Beaverdam Creek watershed is located in a "low" groundwater pollution susceptibility area. However, within a pollution susceptibility area are significant groundwater recharge areas. These areas are mapped on the Hydrologic Atlas 18 or the Groundwater Recharge Area Map of Georgia.

The significant groundwater recharge areas are subject to pollution from spills, discharges, leaks, impoundments, applications of chemicals, injections and other human activities in the watershed. Once in the aquifer, pollutants can spread uncontrollably to other parts of the aquifer thereby decreasing or endangering water quality for an entire region. Once polluted, it is almost impossible for a groundwater source to be cleaned up.

A majority of structures in the watershed receive drinking water from the City of Greensboro or the Piedmont Water System. Structures outside these service areas receive drinking water from wells.

Only portions of two groundwater recharge areas are located in the Beaverdam Creek watershed; however, no recharge area intersects any impaired segment. See Appendix 1, Map 4.

Wetlands

Small, fragmented wetlands are found throughout the watershed. See Appendix 1, Map 5.

Topography

Elevations in the watershed are gently sloping and range from 400 feet to 787 feet.

⁴Greene County Soil Survey, USDA NRCS.

⁵<u>http://www.idcide.com/weather/ga/greensboro.htm</u>

Land Cover, Land Use, and Demographics

Land Cover

Table 4: Beaverdam Creek Watershed Land Cover

Land Cover Classification	Acres
Open Water	4,227.70
Low Intensity Residential	4,863.11
High Intensity Residential	932.92
Commercial/Ind/Trans	211.05
Barren Rock/Sand/Clay	1,750.93
Deciduous Forest	17,649.08
Evergreen Forest	23,747.85
Mixed Forest	2,793.76
Shrublands	324.25
Grasslands/herbaceous	7,685.86
Pasture/hay	9,441.48
Row crops	197.00
Wetlands	1,793.73
TOTAL	75,620.71

Source: Georgia Land Cover Dataset, 2011

Land Use

Approximately 78% of the watershed contains agricultural/forestry land use.

Commercial land use occupies 1.95 percent of the watershed and is located primarily in Greensboro and in the Lake Oconee area. Residential land occupies 13.86 % of the watershed and is primarily located on small lots in Greensboro and the Lake Oconee area. Larger lots are scatted throughout the remaining watershed on lands transitioning from agricultural lands. Industrial land use comprises 0.46% of the watershed and is located almost entirely within Greensboro. See Appendix 1, Map 6.

Existing Land Use (2009)	Acres	% of Watershed	Future Land Use (2024)	Acres	% of Watershed
Agriculture	22676.82	31.57	Agriculture/Forestry (Rural)	37490.72	54.88
Commercial	1403.65	1.95	Commercial	743.16	1.03
Forestry	33647.52	46.85	Institutional	416.15	0.58
Industrial	332.47	0.46	Industrial	1270.13	1.77
Parks/Rec/Conservation	1343.19	1.87	Lakeside Residential	961.27	1.34
Public/Institutional	452.87	0.63	Major Employment Centers	1196.61	1.67
Residential	9957.21	13.86	Mixed Use Community Center	481.73	0.67
Trans/Comm/Utilities	13.13	2.62	Neighborhood Commercial	144.25	0.20
Undeveloped	2242.33	0.17	Parks, Recreation, Conservation	1820.40	2.53
			Residential Growth Area	16842.65	23.45
			Rural Residential	6221.28	8.66
			Trans/Comm/Utilities	2230.81	3.11
TOTAL	71819.07	100.00	TOTAL	71,819.07	100.00

Source: Joint Comprehensive Plan for Greene County, Greensboro, Siloam, Union Point, White Plains, and Woodville. 2004-2024.

The Future Land Use Map shows approximately 31 percent growth in residential property in the southern portion of the watershed adjacent to existing Lake Oconee residential areas and continuing north to include the area bounded by Richland Creek to the east, I-20 to the north, and Oconee River to the west. See 7.

Agriculture

Current farming and agricultural land in Greene County consists of cropland, woodland, and pastureland, with the majority of the land in timber and pasture. The average farm size is 224 acres, ranging from small farms of less than 10 acres to larger tracts of 1,000 acres or more. Agricultural land in the watershed covers 9638.48 acres, or 12.75 percent of the watershed. Top crop products are forages, including hay, grass silage,

and green chop. Corn and sorghum are grown for silage and grain. Conservation tillage is used on many row crop acres, reducing stress on cultivated lands. Because the majority of farming operations are livestock related (dairy, poultry, and beef cattle), nutrient management in association with animal waste is a needed conservation practice. Additional conservation measures use a resource systems approach, such as installation of grazing systems and alternative water sources that include stream crossings, watering ramps, wells with pipeline, heavy use protection, and troughs. Implementing heavy use protection improves degraded areas, such as concentrated travel paths and areas around barns, feeders, and hay rings. Streambanks, wetlands, and similar degraded areas may benefit from fencing, streambank stabilization, critical area treatment, and riparian buffer development and management. By establishing access for livestock and treating critical areas, older ponds can be improved in order to meet today's conservation standards.⁶

According to the Revised TMDL Implementation Plans for each of the watershed's impaired streams, agriculture land uses are a potential source of fecal coliform contamination. Beaverdam and Richland Creek below I-20 are most impacted by agricultural and silvicultural land uses.

<u>Wildlife</u>

According to the Georgia Department of Natural Resources, Wildlife Resources Division (GA WRD), the impact of wildlife on fecal coliform contamination varies widely. The animals that spend a large portion of their time in or around aquatic habitats are the most important wildlife sources of fecal coliform. Waterfowl, most notably ducks and geese, are considered to potentially be the greatest contributors of fecal coliform. This is because they are typically found on the water surface, often in large numbers, and deposit their feces directly into the water. Other potentially important animals regularly found around aquatic environments include racoons, beavers, muskrats, and to a lesser extent, river otters, and mink. Population estimates of these animal species in Georgia are not available.

White-tailed deer have a significant presence in the watershed with an estimated 2004 population of 50 deer per square mile. According to GA WRD, fecal coliform bacteria contributions to water bodies from deer are generally considered less significant than that of waterfowl, racoon, and beaver due to a greater portion of their time being spent in terrestrial habitats. This is also true for other terrestrial mammals such as squirrels and rabbits, and terrestrial birds. While feces deposited on the land surface can result in the introduction of fecal coliform to streams during runoff from storm events, in the warm, humid environments typical of the southeast, there may be considerable decomposition of the fecal matter. This may result in a decrease in the associated fecal coliform numbers introduced from to streams during runoff from storm events.

Water and Sewerage System

Water System

Greene County does not provide public water service to residents within the unincorporated areas of the county. Residents rely on private wells or, if residing in the Lake Oconee area, the private water system operated and maintained by Piedmont Water Company.

The City of Greensboro draws its water from Lake Oconee. The city has a total permitted withdrawal of 1.5 million gallons per day (mgd), with a treatment capacity of 1.660 mgd. The city has a total of 1,017

⁶Greene County, Ga Soil Survey, USDA NRCS, 2013.

residential customers with 239 commercial and industrial customers. The city has 1.100 mgd of storage capacity (0.600 mgd elevated and 0.500 mgd ground storage capacity). The average daily demand is 0.700 mgd with a peak demand of 0.900 mgd.

There are a number of private water supply systems constructed within subdivisions near the Lake Oconee area. The majority of private water systems are hydropneumatic in nature and do not provide fire protection. The Reynolds Plantation system is an exception and has two elevated storage tanks (100,000 gallons and the other 600,000 gallons).

Sanitary Sewer System

There is no governmentally-owned public sewerage system serving unincorporated Greene County. Residents rely on individual septic systems or, if residing in the Lake Oconee area, the private sewerage system operated and maintained by Piedmont Water Company.

The City of Greensboro operates a sanitary sewer and disposal system that serves only the population within the city's boundary. See Appendix 1, Map 8.

The City of Greensboro operates a water pollution control plant (WPC) in the southern section of the city at 1900 South Main Street. The plant utilizes an activated sludge system, discharging the treated wastewater into Town Creek, as well as a slow rate land application system. The total permitted capacity of the city's sewerage system is 0.998 mgd with the ability to accommodate a peak demand of 0.305 mgd. The city serves a total of 934 customers (756 residential and 178 commercial/industrial) with an average daily demand of 0.305 mgd and a peak demand of 1.500 mgd.

Periodically, there have been discharges from the WPC into Town Creek as well as overflows from manholes within the city's sewerage system.⁷

Discharges from the WPC Jan 2014 – 0.283 gal Nov 2015 – 0.380 gal Apr 2016 – 0.500 gal

Sewage Spills

Jan 13, 2014, 6th Street, Samples Town Creek for 1 year 2014, Cherry Street, repaired manhole and jetted lines 2014, Greensboro Elementary School, repaired manhole and unstopped line 2014, Greensboro Elementary School, replaced manhole and installed new line January 8, 2015, 1570 South Main Street, Repaired line and removed blockage January 9, 2015, 102 Rachel Street, Repaired line and remove blockage.

There are privately owned and operated sewerage treatment facilities serving existing and planned residential and commercial development in the Lake Oconee area. Currently, the existing and planned wastewater treatment plants are designed as tertiary reuse facilities. The effluent is utilized for irrigation on golf courses and other landscapes.

⁷City of Greensboro, May 10, 2016.

Private Septic Systems

County Boards of Health and the Geogia Department of Human Resources regulate the siting and installation of septic systems up to 10,000 gallon tank capacity. Larger systems are permitted by GA EPD. However, property owners are responsible for properly operating and maintaining the septic system to increase life expectancy and prevent failures.

Residential land accounts for almost 14 percent of the watershed. The majority of dwellings are served by the City of Greensboro sanitary sewerage system. There are scatted properties within the city that are served by individual private septic systems. The Greene County Health Department reports that are periodic problems with septic systems but that they are scattered throughout the watershed rather than located in any confined areas.

Impervious Surface

Impervious surface in the watershed was determined through the 2006 National Land Cover Dataset. The data set identified 5,696.19 acres of impervious surface in the watershed. This includes roads, parking lots, and buildings, most of which are located in Greensboro and to a lesser extent, the Lake Oconee residential and commercial areas. See Appendix 1, Map 9.

As more development occurs in the watershed, the amount of impervious surface will increase leading to more urban runoff and potential for water quality contamination.

Flooding

Flooding in Greensboro is primarily associated with Town Creek. Flooding in unincorporated Greene County is adjacent to major streams in undeveloped portions of the county with the exception of the Lake Oconee residential area. See Appendix I, Map 14.

Urban Runoff

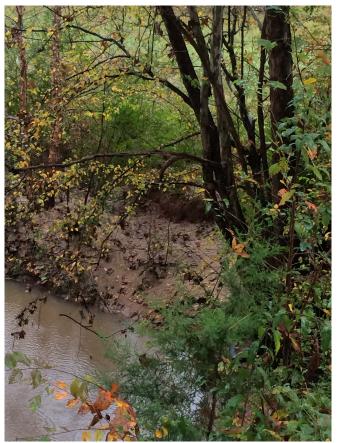
Greensboro has an unmapped, separate stormwater system that discharges to Town Creek. Presently, the city does not utilize or mandate through its ordinances any structural management to capture and treat stormwater before it is discharged to surface waters thereby reducing the amount of fecal coliform discharged to the stream.

Streambanks

Streambanks on the impaired streams generally experience substantial erosion and have little to no vegetation. Based on visual observation and input from City staff, there is a greatly increased volume of water in the stream channels during rain events, particularly events exceeding two inches. Town Creek appears to be the most heavily impacted by the heavy rain events as the creek's banks are steep and severely eroded throughout the impaired segment though, Richland and Beaverdam creeks have isolated areas of eroded banks. Below are photos of areas representing the extent of streambank erosion throughout the watershed.



Richland Creek at Penfield Road, upstream.



Richland Creek at Penfield Road, upstream.



Richland Creek at Penfield Road, downstream.



Town Creek at MLK, Jr. Dr., downstream

Silviculture

The majority of soil erosion from forested land occurs during timber harvesting and the period immediately following, and during reforestation. Once the forest is re-established, very little soil erosion occurs. Timber harvesting includes the layout of access roads, log decks, and skid trails, the construction and stabilization of these areas, and the cutting of trees. Compliance with silvicultural best management practices is at or near 100 percent.⁸

Demographics

From 2000 - 2010, Greene County's total population grew by 10%, and by 3.1% from 2010 – 2014. Most of the growth in the unincorporated county took place in the Lake Oconee area. The City of Greensboro's population also grew 6.9% since 2000.

No population data exists solely for the Beaverdam Creek watershed, however, projections indicate that by 2030, Greene County's total population will be 26,134, or a change of 63% from 2010-2030⁹. The City of Greensboro's total population is expected to increase by 3.7% to 3,382.¹⁰

⁸Results of Georgia's 2013 Silvicultural Best Management Practices Implementation and Compliance Survey, Georgia Forestry Commission, February 24, 2014.

⁹Georgia Population Projections 2030, Georgia Office of Planning and Budget, March 12, 2010.

¹⁰City of Greensboro Urban Redevelopment Plan, February 21, 2011.

Waterbody and Watershed Conditions

Visual Survey

A visual survey of the Beaverdam Creek watershed was conducted in August and September 2015, and December 2016.

The purpose of a visual survey is to determine if there are observable problems in the stream and to characterize the environment through which the river flows. The visual survey helps pinpoint areas that may be the source of water quality impairments and determine the overall condition of the stream. Results of the visual survey did not indicate any obvious source(s) of water quality impairment.

All impaired streams, and particularly Town Creek, evidence stream bank scouring. Town Creek is a narrow, shallow stream with some cobble and combination sandy/muddy bottom. Sandbars are periodically visible throughout the stream's reach with the largest at its intersection with Georgia Highway 44. Where observed, its channel averages about five feet in width and its banks average between four to six feet in height. High water marks indicate frequent overflow of its banks during rain events as much as 15 horizontal feet. According to City staff, considerable household garbage in addition to vegetative debris, flows down the stream during these high water events. The Town Creek subwatershed has urban residential and commercial uses on its north side and forest and agricultural uses, primarily pasture, on its south side.

Beaverdam Creek begins as a narrow stream, about six feet in width, but more than doubles its width as it flows to Lake Oconee. The stream bottom periodically has rocks/cobble and a combination sandy/muddy bottom. Stream banks, where observed, are very gently sloping and only about two to three feet in height. In the lower part of its subwatershed, there is evidence of bank scouring. Forest and agriculture are the primary land in this subwatershed; however, a large poultry operation is currently under construction directly upstream of monitoring site 1 on Highway 66 (Lesley Mill Road).

Richland Creek begins as a moderately narrow, shallow stream about ten feet in width and increases its width and depth as it flows to Lake Oconee. The stream has few rocks/cobble and its bottom is a sand/mud mixture. In the upper part of its reach, the stream banks are gently sloping and become considerably steeper as it flows to Lake Oconee, reaching a height of about six feet. However, throughout the stream's reach, visual observation indicates that the stream periodically overflows its bank, particularly in its northern reach. Forestry, agriculture, and urban are the primary land uses in the watershed, with urban uses confined to Greensboro.

Water Quality Standards and Data

Fecal coliform

Coliform bacteria are members of the Enterobacteriaceae family. While some coliform bacteria can be naturally found in soil, the type of coliform bacteria that lives in the intestinal tract of warm-blooded animals and originates from animal and human waste is called fecal coliform bacteria. Escherichia coli (*E.coli*) is one subgroup of fecal coliform bacteria and are good indicator organisms of fecal contamination because they are associated with warm-blooded animal wastes, generally live longer than pathogens, are

found in greater numbers, and are less risky to culture in a laboratory than pathogens. However, their presence does not necessarily mean that pathogens are present, but rather indicates a potential risk to human health. The presence of fecal coliform bacteria in aquatic environments indicates that the water has been contaminated with the fecal material of man or other animals.

Fecal coliform bacteria can enter rivers and streams through direct discharge of waste from mammals and birds, from agricultural and storm runoff, and from untreated human sewage. Individual home septic tanks can become overloaded during the rainy season and allow untreated human wastes to flow into drainage ditches and nearby waters. Agricultural practices such as allowing animal wastes to wash into nearby streams during the rainy season, spreading manure and fertilizer on fields during rainy periods, and allowing livestock watering in streams can all contribute fecal coliform contamination.

At the time this occurs, the source water may be contaminated by pathogens or disease producing bacteria or viruses, which can also exist in fecal material. Some waterborne pathogenic diseases include ear infections, dysentery, typhoid fever, viral and bacterial gastroenteritis, and hepatitis A. The presence of fecal coliform tends to affect humans more than it does aquatic creatures, though not exclusively. While these bacteria do not directly cause disease, high quantities of fecal coliform bacteria suggest the presence of disease-causing agents. The presence of fecal contamination is an indicator that a potential health risk exists for individuals exposed to this water. During high rainfall periods, the sewer can become overloaded and overflow, bypassing treatment. As it discharges to a nearby stream or river, untreated sewage enters the river system. Runoff from roads, parking lots, and yards can carry animal wastes to streams through storm sewers.

Unlike the other conventional water quality parameters, fecal coliform bacteria are living organisms. They do not simply mix with the water and float straight downstream. Instead they multiply quickly when conditions are favorable for growth, or die in large numbers when conditions are not. Because bacterial concentrations are dependent on specific conditions for growth, and these conditions change quickly, fecal coliform bacteria counts are not easy to predict. For example, although winter rains may wash more fecal matter from urban areas into a stream, cool water temperatures may cause a major die off. Exposure to sunlight (with its ultraviolet disinfection properties) may have the same effect, even in the warmer water of summertime.

Georgia's water quality standards set a maximum number of colony forming units (cfu) at 200 per 100 milliliters from May through October, or 1000 per 100 milliliters from November through April. Values in excess are in violation of the State bacteria water quality standard. In addition, a single sample in excess of 4000 cfu per 100 milliliters from November through April or a single sample in excess of 400 cfu per 100 milliliters from May through October can also trigger adding a stream segment to the 303(d) listing. Below is the Georgia EPD 2004 monitoring data that initiated the listing of stream segments in the Beaverdam Creek watershed as impaired. Values in red exceed state water quality standard.

Following is the GA EPD monitoring data for the impaired streams for the period 1996-2004.

Table 6: GA EPD	Monitoring Data
-----------------	-----------------

Beaverdam Creek at County Road 66 near Veazey, GA			Richland Creek at Ga Highway 15 near Greensboro, GA		ay 15 near
Date	Fecal Coliform (counts/100 ml)	Geometric Mean (counts/100 ml)	Date	Fecal Coliform (counts/100 ml)	Geometric Mean (counts/100 ml)
04.13.04	16000		04.13.04	1300	
04.15.04	230		04.15.04	80	
04.27.04	800		04.27.04	800	
04.29.04	130	786.50	04.29.04	130	322
05.04.04	800		05.04.04	230	
05.11.04	500		05.11.04	170	
05.18.04	500		05.18.04	170	
05.25.04	270	482.10	05.25.04	204	204
08.03.04	170		08.03.04	80	
08.10.04	130		08.10.04	20	
08.17.04	170		08.17.04	500	
08.24.04	110.7	110.70	08.25.04	5000	251
11.09.04	500		11.09.04	80	
11.16.04	1300		11.16.04	70	
11.30.04	500		11.30.04	40	
12.04.04	170	484.80	12.07.04	70	63

Richland Creek	at Interstate 20 near (Greensboro, GA	Richland Creek a	it Ga Highway 15 near	Greensboro, GA
Date	Fecal Coliform (counts/100 ml)	Geometric Mean (counts/100 ml)	Date	Fecal Coliform (counts/100 ml)	Geometric Mean (counts/100 ml)
01.24.96	13000		04.13.04	1300	
			04.15.04	80	
			04.27.04	800	
			04.29.04	130	322
			05.04.04	230	
			05.11.04	170	
			05.18.04	170	
			05.25.04	204	204
			08.03.04	80	
			08.10.04	20	
			08.17.04	500	
			08.25.04	5000	251
			11.09.04	80	
			11.16.04	70	
			11.30.04	40	
			12.07.04	70	63

Town Creek at Ga Highway 44 near Greensboro, GA				
Date	Fecal Coliform (counts/100 ml)	Geometric Mean (counts/100 ml)		
01.31.96	2800			
02.21.96	140			
03.20.96	7000			
04.09.96	15000			
05.22.96	700			
06.11.96	1300			
07.1.96	490			
08.13.96	490			
09.10.96	790			
10.30.96	1700			
11.13.96	490			
12.17.96	330			

Town Creek at Ga Highway 44 near Greensboro, GA			
Date	Fecal Coliform (counts/100 ml)	Geometric Mean (counts/100 ml)	
01.06.00	2400		
01.20.00	490		
01.26.00	1300	1695	
02.03.00	5400		
05.25.00	700		
06.14.00	170		
06.16.00	2200		
06.22.00	3500	978	
07.27.00	490		
08.10.00	54000		
08.17.00	330		
08.24.00	2300	2117	
11.09.00	50		
11.16.00	70		
11.23.00	790		
12.07.00	9200	399	
04.13.04	5000		
04.15.04	300		
04.27.04	230		
04.29.04	170	492	
05.04.04	800		
05.11.04	500		
05.18.04	500		
05.25.04	300	495	
08.03.04	300		
08.10.04	170		
08.17.04	500		
08.24.04	130	240	
11.09.04	500		
11.16.04	2400		
11.30.04	500		
12.07.04	110	507	

In order to obtain more current water quality data, pre-BMP monthly stream water quality monitoring for E.coli was conducted by Resource Management Strategies under contract with the Oconee River RC&D Council for the period August 2015 - April 2016. See Appendix 1, Map 10 and Appendix II, Water Quality Data.

E.coli

The current Georgia bacterial standard for fresh water is based on fecal coliform and varies with the designated use of the water. However, based on studies, USEPA concluded that E.coli was the preferred indicator organism for fresh waters. Using an illness rate of 8 illnesses per 1,000 swimmers (the estimated rate associated with the fecal coliform standard of 200 cfu/100 ml), the regression line was used to find the associated concentration. This associated concentration for E. coli was a geometric mean of 126 cfu/100 ml.¹¹

USEPA recommendations for E.coli based on primary contact with the water are as follows:

IIIness Rate/1000	Geometric Mean/100mL	Single Sample/100mL
8	126	235
9	206	300
10	206	383
11	263	490
12	336	626
13	429	799
14	548	1021

Table7: USEPA Recommendations for E. coli

Georgia Adopt-a-Stream recommends that E.coli counts exceeding 1000 cfu/100 ml warrant special action which includes notifying the appropriate agency (local Health Department, local government, or GA EPD). A "high" bacterial count may be a one-time event or occurrence but, more sampling is encouraged.

Both dry and wet weather sampling was conducted. Dry weather is defined as no more than 1" of rain in the 48 hours preceding sampling. Wet weather is defined as at least 0.2" of rain in the 24 hours preceding sampling. Sampling data is found in Appendix B.

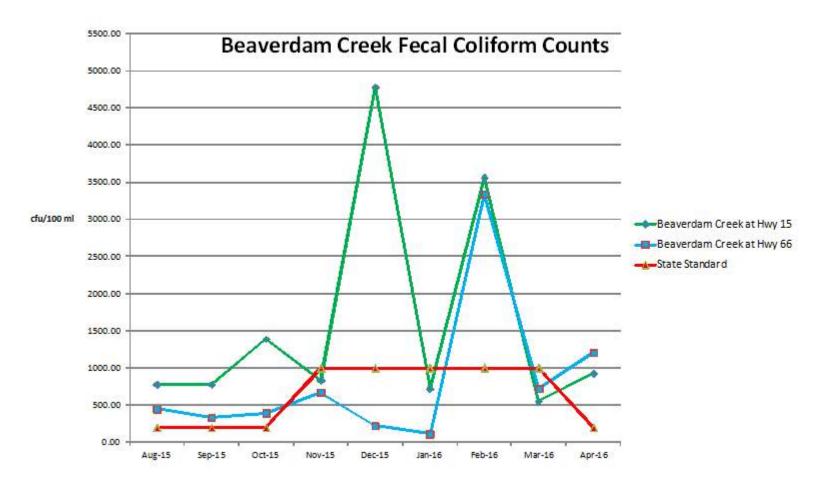
¹¹Scientific Basis for Bacterial TMDLs in Georgia, June 2006, pps. 13, 15.

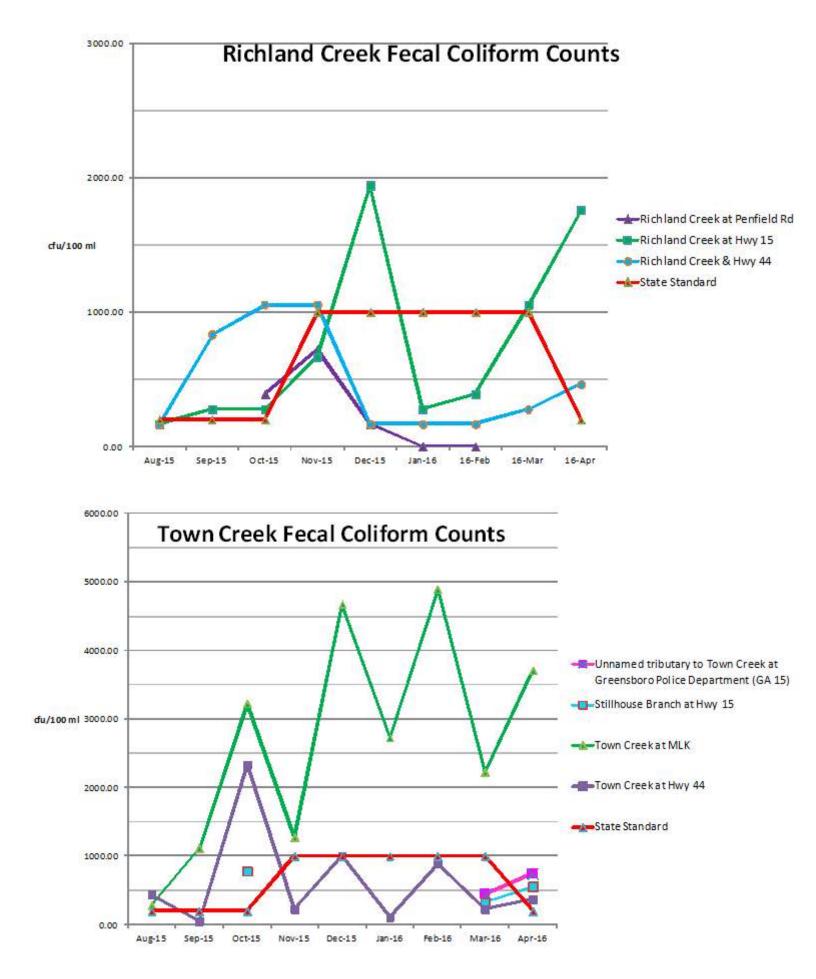
A ranking of monitoring sites based on average E.coli counts is as follows:

Rank	Site	Avg. E.coli cfu/100 ml
1	Town Creek at MLK	1501.08
2	Beaverdam Creek at Ga Hwy 15	935.71
3	Beaverdam Creek at Ga Hwy 66	476.50
4	Town at Ga Hwy 44	407.37
5	Richland Creek @ Ga Hwy 15	367.86
6	Unnamed Tributary to Town Creek at Ga Hwy 15 (Greensboro Police Department)	299.97*
7	Richland Creek at Ga Hwy 44	283.92
8	Stillhouse Branch at Ga Hwy 15	238.87*
9	Richland Creek at Penfield Rd.	153.32*

Table 8: Monitoring Site Rank (Aug 2015 – Apr 2016)

* fewer monitoring events





Sampling events throughout the watershed helped to focus the potential geographic areas of contamination and, in some cases, helped to focus on the potential source(s) of contamination.

- ! Beaverdam Creek
 - " E.coli counts along Beaverdam Creek have been elevated throughout the monitoring period though, with the exception of spikes in December 2015 and February 2016, counts have not been excessively elevated. Both spikes occurred during dry weather sampling events. The cause is unknown. This subwatershed is relatively undeveloped until it reaches Lake Oconee; however, a large poultry operation is under construction just upstream of the monitoring site on Beaverdam Creek at Highway 66 (Lesley Mill Road). There are scatted cattle operations in the subwatershed. Land in this subwatershed are predominately forestry and agriculture with scattered residential on large tracts. The subwatershed is served by individual septic systems until it reaches the Lake Oconee area.
 - " Future Development
 - Construction of an extension to Richland Connector, between Walkers Church Road and Veazey Road, is scheduled for completion June 2016. This area is identified on the 2024 Greene County Future Land Use Map as a Residential Growth Area (RGA). RGAs will experience a high volume of transition to residential development. This designation represents areas that are capable of developing in the same character as existing neighborhoods. Higher densities are allowed because of the availability of supportive infrastructure and may be suitable for neighborhood-level commercial activity within the character of the neighborhood. These areas are also designed to accommodate recreation, as well as education, public administration, health care, or other institutional land uses. A large percentage of development within the Residential Growth category consists of master-planned communities and promotes alternative forms of development.
 - Potential contamination sources: Runoff associated with agricultural practices, septic systems, and urban runoff from future development.
- ! Richland Creek
 - <u>Richland Creek @ Penfield Road</u> Land use adjacent to this monitoring site and its immediate area is pasture. Only one tract adjacent to, and downstream of the monitoring site, has livestock, a few horses and goats. These animals have access to the stream. The perimeter fencing on the adjacent tract upstream of the monitoring site has been removed. No livestock has been observed during the monitoring period and removal of the fencing indicates that no livestock is anticipated in the immediate future. Residential structures in the area are scattered and served by individual septic systems.

Due to lack of rain, there was no stream flow during August and September 2015. Monitoring was not possible until October 2015. E. coli counts have consistently been below or near acceptable counts indicating a low likelihood of contamination entering the creek upstream of the monitoring site. Therefore, monitoring at this location was discontinued after February 2016.

- Future Development
 - # The 2024 Greene County Future Land Use map indicates that the area upstream and downstream of the monitoring sate will remain in agriculture. The Greene County Comprehensive Plan defines agriculture as lands retaining their rural character throughout the 2024 planning horizon. Agriculture lands generally lack the infrastructure necessary to accommodate growth. Actual uses may include, but are not limited to, farming, raising of livestock, timber production and harvesting, or any other use compatible with the surrounding environment.

" <u>Richland Creek at Ga Highway 15</u> – The land use upstream of the minoring site is predominately forest. Four poultry houses are under construction on Georgia Highway 15 just north of this monitoring site. The property is drained by a tributary to Richland Creek downstream of this monitoring site.

E. coli counts have consistently been below or near acceptable counts with the exception of a minor spike in October 2015, a wet weather sampling event, and a major spike in December 2015, a dry weather sampling event. The cause of, in particular the December spike, is unknown. Due to consistently acceptable E.coli counts, there is a low likelihood of contamination entering the creek upstream of the monitoring site.

- Future Development
 - # The Future Land Use map indicates that the area upstream of the monitoring site will remain in agriculture, which includes forestry. Between Highway 15 and the Madison Highway the land use will be a mix of agriculture and residential (Greensboro). Below Madison Highway, land will transition to Rural Residential, then to agriculture, and below I-20, to Residential Growth Area.

The Comprehensive Plan defines Rural Residential as areas suitable for lower density development, typically adjacent to larger population centers. These areas typically do not have direct access to supportive infrastructure and are at densities of more than one dwelling unit per acre. Residential Growth Areas are areas experiencing a high volume of transition to residential development. This designation represents areas that are capable of developing in the same character as existing neighborhoods. Higher densities are allowed because of the availability of supportive infrastructure and may be suitable for neighborhood-level commercial activity developed within the character of the neighborhood. These areas are also designed to accommodate recreation, as well as education, public administration, health care, or other institutional land uses.

" <u>Richland Creek @ Highway 44</u> – Land use between the Ga Highway 15 monitoring site and I-20 on the north side of Richland Creek is predominantly agricultural land including numerous poultry houses. Land use on the south side of the Richland Creek in this same segment is predominately forest. Below I-20, land use is predominately forest with scattered agricultural property. Town Creek joins Richland Creek just above I-20.

E. coli counts at this site were consistently elevated during September – November 2015 but saw an 80 percent reduction from December 2016 – March 2016. Town Creek may be a source of some of the contamination in Richland Creek, but it does not account for all of the contamination. Other likely sources are agricultural operations, wild hogs reported upstream of the monitoring site, and natural sources. Based on submitted data regarding biosolids application on the Copeland Farm property, it is unlikely that activity on this property impacts water quality standards. Water quality monitoring spikes at Richland Creek at Highway 44 do not correspond with dates of biosolids application.

- Future Development
 - # Future Land Use indicates that below I-20 east of the creek will remain agricultural while west of the creek will transition to Residential Growth Areas.
- " <u>Town Creek</u> Town Creek's water quality monitoring has demonstrated that there is significant contamination flowing into the creek above Martin Luther King, Jr. Drive. Initially, there were two

monitoring sites on Town Creek but, in an effort to isolate the geographic area of contamination and the potential contamination source, two additional upstream monitoring sites were added in March 2016.

 <u>Stillhouse Branch at Ga Highway 15</u> – The is the eastern, uppermost-tributary to Town Creek. Two, large commercial land uses drain to this tributary; Horizon Growers (plant nursery) and Plantation Quail (quail grower and processor). There are five lakes or ponds upstream of this monitoring site that drain directly to Stillhouse Branch. Two ponds are located on the Plantation Quail property, one on Horizon Growers' property, and two on residential/pasture tracts.

This site has been monitored three times; October 2015, March and April 2016. E. coli counts in October, a wet weather monitoring event, were 777 cfu/100 ml, exceeding the state standard of 200 cfu/100 ml. March and April E. coli counts were under the state standard. Additional monitoring at this site is needed to definitively conclude that there is a low potential for contamination by upstream land uses. However, monitoring to-date indicates that the contamination source is likely downstream of this site and upstream of the MLK Jr., Drive monitoring site.

<u>Unnamed Tributary to Town Creek at Ga Highway 15 (Greensboro Police Department)</u> - This site was selected because a portion of Greensboro's public sewerage line runs parallel to this tributary. Land use adjacent to this tributary is forested buffers, government uses (fire and police), residential, small-scale commercial, and conservation.

This site has been monitored twice; March and April 2016. Both monitoring events demonstrated E. coli counts well under the state standard. Additional monitoring at this site is needed to definitively conclude that there is a low potential for contamination by upstream land uses. However, monitoring to-date indicates that the contamination source is likely downstream of this site and upstream of the MLK Jr., Drive monitoring site.

- <u>Town Creek at Martin Luther King Jr. Drive (MLK)</u> Fecal coliform counts at this site have consistently been greater than the state standard, from as much as 455 percent above the summer standard of 200, to 388 percent above the winter standard of 1000. Counts substantially decrease when measured at the immediate downstream monitoring site at Ga Highway 44. Land use at this monitoring site is agricultural/pasture/forest east of the creek and single-family residential west of the creek. A number of outfalls from Greensboro's stormwater system were observed draining to Town Creek. However, the city's stormwater system has not been mapped so the number of location of outfalls are unknown. Additionally, Greensboro's public sewerage system runs parallel to Town Creek from the upstream monitoring site at the Greensboro Police Department and continues to the MLK monitoring site.
- <u>Town Creek at GA Highway 44</u> With the exception of one spike in October 2015, a wet weather monitoring event, counts at this site have been within acceptable limits.
 Greensboro's WRP is located just upstream of this monitoring site. Land use at this monitoring site is forest south of the creek, and institutional and commercial north of the creek.

Based on observation and input from Greensboro staff, Town Creek frequently overflows its banks during rainfall events exceeding 2 inches. In general, its banks have been scoured from the volume of water it receives and this will continue unless the volume and/or velocity of water entering the stream is reduced.

The Future Land Use indicates that the upper reach of Town Creek will be primarily residential, transitioning to commercial and industrial in the middle reach, to Major Employment Center above its confluence with Richland Creek. A Major Employment Center is comprised of areas providing a compatible mix of higher intensity commercial development (big box type retail outlets), professional offices (office/business parks), or light industrial uses (warehouse/distribution, research/technology). Higher density, multi-family development may be appropriate within this area provided it is part of a planned development to increase the proximity between housing and employment opportunities.

Based on E. coli monitoring data collected from August 2015 - April 2016, Town Creek is the most contaminated of the impaired streams in the watershed, particularly upstream of MLK Jr., Drive. This stream has been designated as a stream of high concern by the WP. Potential contamination sources of Town Creek include public sewerage system leaks and overflows, urban runoff, and commercial operations in the northern portion of the watershed. Anticipated future land use is a concern due to the increased runoff from the concentration of development and the associated impervious surface.

Land Management Ordinances and Activities

Greensboro and Greene County have several land management ordinances that affect development in the Beaverdam Creek watershed, though only a few affect water quality. They are as follows:

	Beaverdam Creek Watershed Land Management Ordinances (2016)						
Ordinance	Responsible Entity	Description					
Zoning Ordinance	Greensboro	Establishes standards and permissible uses designed to, in part, improve the quality of life through protection of the city's total environment including air and water. Does not address water quality.					
Tree Ordinance	Greensboro	Provides for protection and management of existing trees and planting of new trees. Does not address water quality.					
Soil Erosion and Sedimentation Control	Greensboro	Establishes minimum requirements effecting land-disturbing activities. Addresses water quality.					
Sewer Use and Discharge Ordinance	Greensboro	Requires and regulates use of public sewer system. Requires improved properties within 500 feet of the sewer system to connect to the public system. Addresses water quality.					
Wetlands Protection	Greensboro	Requires permitting for wetlands disturbance. Provides for setbacks. Does not address water quality.					

	Beaverdam Creek W	/atershed Land Management Ordinances (2016)
Zoning Ordinance	Greene County	Establishes standards and permissible uses designed to, in part, conserve and protect the natural, economic and scenic resources of Greene County. Does not address water quality.
Soil Erosion and Sedimentation Control	Greene County	Establishes minimum requirements effecting land-disturbing activities. Addresses water quality.
Flood Damage Prevention	Greene County	Establishes minimum standards for new construction in flood hazard areas to reduce damage from flooding. Does not address water quality.
Wetlands Protection	Greene County	Requires permitting for wetlands disturbance. Provides for setbacks. Does not address water quality.

The perceived negative impact on water quality from recent poultry house development in the watershed has been a source of public concern. To address concerns, the Greene County Board of Commissioners amended the county zoning ordinance on April 6, 2016. The amendment includes a provision for Confined Animal Feeding Operations (CAFO) which previously were not specifically regulated. The amendment recognizes the potential negative impact of CAFOs on water quality and community activities and the potential incompatibility with surrounding land uses. CAFOs are restricted to the A1 zoning district, the most intensive agricultural use district, and permitted only as a conditional use. Requirements include a Comprehensive Nutrient (Waste) Management Plan, a 200 foot buffer between perennial streams and the CAFO, and dead animal disposal within 72 hours in a manner that does not affect ground or surface water.

<u>Zoning</u>

Each of the impaired streams forms a sub-watershed within the larger Beaverdam Creek watershed, the subject of this plan. Zoning in each sub-watershed as of February 2016 is as follows:

- ! Beaverdam Creek sub-watershed
 - ¹ Primarily zoned A1 Agricultural District (Intensive Farming) with pockets of A2 Agricultural-Residential, industrial, commercial, and residential. See Appendix 1, Map 11.
- ! Richland Creek sub-watershed
 - Primarily zoned A1 Agricultural District (Intensive Farming) in the portion of the sub-watershed located in unincorporated Greene County and a variety of residential, commercial, and industrial zoning in the portion of the sub-watershed located Greensboro. See Appendix 1, Map 12.
- ! Town Creek sub-watershed
 - " Primarily zoned A2 Agricultural Residential with pockets of residential and industrial in the portion of the sub-watershed located in unincorporated Greene County and a variety of residential, commercial, and industrial zoning in the portion of the sub-watershed located in Greensboro. See Appendix 1, Map 13.

Primary sources of likely fecal coliform pollution identified by the WP are leaking public sewerage lines/overflows, agricultural runoff and urban runoff. Due to the results of water quality monitoring associated with this plan's development, addressing the potential public sewerage line leaks/overflows is the priority for Town Creek, agricultural runoff is the priority for Richland Creek, and agricultural runoff and development is the priority for Beaverdam Creek.

The suite of potential structural and non-structural management practices identified to control the abovelisted pollutant loadings are:

- agricultural best management practices.
- urban best management practices (individual septic system repair/replacement).
- smoke or dye test the sanitary sewerage system and repair and replacement as needed.
- map, repair, replacement and maintenance to the city's storm sewer system with consideration, long-term, of installation of structures that promote on-site stormwater management.
- streambank restoration.
- Implementation of structural management practices to capture and treat stormwater runoff before it is discharged into streams.

The following screening criteria established by the WP should be used to evaluate the suitability of a potential management practice: (Criteria are listed in descending order of importance).

- Critical Area Will the management measure be implemented effectively within the identified critical areas in the watershed?
- Load Reduction Will the management measure provide a significant load reduction?
- Ease of Implementation Will the implementation of the management measure be easy to undertake (potential legal issues, permits, etc.)
- Maintenance What level of maintenance is required for the measure to function optimally?
- Cost Effectiveness Is the practice cost-effective when compared to the impact the measure will have on contamination?
- Unintended Impacts/Added benefits Are the any unintended impacts or added benefits that result from installation of the management measure?
- Social Acceptance Will the measure have public support?

Recommended Management Practice Effectiveness

Agriculture

The implementation of systems of BMPs reduces nonpoint source pollution. BMPs are defined as structural, vegetative, or managerial conservation practices which reduce or prevent detachment, transport and delivery of nonpoint source pollutants to surface or ground waters. The BMPs result in fewer nutrients and waste being delivered to the water bodies.

The BMPs in a water quality project must be targeted to priority fields within the watershed. Priority fields are cropland, pastureland or hayland that contribute runoff to adjacent hydrologic systems such as lakes,

streams, ditches, wetlands and flood plains. Additional priority areas are feedlots, water storage systems, and waste management systems. Reporting of specific pollutant load reductions will be calculated for all priority fields and areas where new BMPs are installed; however, a general estimated load reduction is provided below to assist with the suitability evaluation of a management practice.

Practice Number	Practice Name	Fecal Coliform	Estimated Load Reduction	Cost*
313	Waste Storage Facility	M	96%	medium - high
316	Animal Mortality Facility	M	Products from composting facilities can be incorporated into the soil and improve agronomic conditions and can also be used a part of a nutrient management plan.	moderate – high
317	Composting Facility	М	70-80%	medium - high
329, 345, 346	Conservation Tillage	Μ	up to 70%	varies by scope of project
330	Contour Farming	М	25-50%	low
332	Contour Buffer Strip	М	20-75%	low
340	Cover Crop		40-60%	low
342	Critical Area Planting	М	75%	high
359	Waste Treatment Lagoon	М	80%	moderate - high
360	Waste Facility Closure	М	reduces likelihood of residual nutrients entering water.	high – depends on scope of project
365	Anerobic Digester - Ambient Temperature	М	90-99%	high. Requires maintenance.
366	Anaerobic Digester - Controlled Temperature	М	90-99%	high. Requires maintenance.
367	Waste Facility Cover	М	protect integrity and capacity of storage facility and reduce overflow.	high
382	Fence	М	50 - 90% in higher order streams, 99% in second order streams	low
390	Riparian Herbaceous Cover	М	50-75%	low - moderate
391	Riparian Forest Buffer	М	50-75%	moderate
393	Filter Strip	Μ	50-80%	moderate, maintenance required
472	Access Control	Μ	50 - 90% in higher order streams, 99% in second order streams	low - moderate

Table 10: Agricultural Best Management Practices to Address Non-Point Source Pollution

Practice Number	Practice Name	Fecal Coliform	Estimated Load Reduction	Cost*
516	Pipeline - Livestock	М	As part of an alternative water supply or a waste management system, pipelines indirectly reduce negative water quality impacts.	moderate
528	Prescribed Grazing		75%	low
578	Stream Crossing	М	Stream crossings reduce animal access, provide stable traffic paths and reduce the amount of nutrients and sediment entering water.	medium - high. Best to redirect around stream.
586	Field Stripcropping	М	75%	low
590	Nutrient Management	М	35% P, 15% N	low - moderate
606	Tree & Shrub Establishment	М	50%	low - moderate
634	Waste Transfer	М	promote nutrient reduction in soil	moderate
635	Vegetated Treatment Area	М	80 - 90% in feedlots	low
642	Water Well	М	No available information	varies by scope of project

Source: Best Management Practices for Georgia Agriculture, Georgia Soil and Water Conservation Comm., Sept 2013

*For additional information on Practice Number costs, see Appendix II, Georgia FY 2016 EQIP Policy.

Sanitary Sewerage System

Greensboro staff indicates a desire to conduct additional monitoring on Town Creek between Ga Hwy 15 and MLK Jr., Drive in an effort to isolate the potential sewerage leak. Additionally, it is recommended that the city conduct smoke or dye testing of the lines. Based on the results of the smoke test, repair and replace the system as needed.

Individual Septic System

Continue coordination between Greene County Code Enforcement and Greene County Health Department to identify and assist users of septic systems with maintenance issues.

Stormwater System

Several initiatives are needed to address stormwater.

- Map the stormwater system.
- Repair and clean catch basins and pipes, as needed.

- Conduct specific water quality monitoring at outfalls to assess the impact of stormwater on Town Creek's water quality.
- Consider changes to city ordinances to require on-site management of runoff based on outfall water quality monitoring data.

The Greene County Comprehensive Plan identified the goal to conserve and protect environmental and natural resources in unincorporated Greene County and Greensboro. To achieve this goal, the following policies were established:

- Protect public water supply.
- Protect river and lake resources.
- Enforce ordinances.
- Balance development with resource protection.

To further that goal, there are a variety of practices a the county and Greensboro can implement to mitigate the impact of stormwater on water quality. These practices would be particularly beneficial in new development identified on the future land use map.

Typical practices include:

• Permeable pavements

Permeable paving allows rainwater to percolate through the paving and into the ground before it runs off. This approach reduces stormwater runoff volumes and minimizes the pollutants introduced into storm water runoff from impervious surfaces. Permeable paving is appropriate for pedestrian-only areas and for very low-volume, low-speed areas such as overflow parking areas, residential driveways, alleys, and parking stalls. Depending on design, paving material, soil type, and rainfall, permeable paving can infiltrate as much as 70% to 80% of annual rainfall.¹²



Permeable Pavement (sidewalk)

• Rainwater harvesting

By retaining stormwater runoff for on-site use, harvesting systems reduce the runoff volumes and pollutant loads entering the stormwater collection system, helping to restore pre-development hydrology and mitigate downstream water quality impacts. The impact of rainwater harvesting on pollutant load reduction varies widely.¹³

¹² Low Impact Development Toolkit, Metropolitan Area Planning Council, <u>http://www.mapc.org/sites/default/files/LID_Fact_Sheet_-_Permeable_Paving.pdf</u>

¹³ Rainwater Harvesting - Conservation, Credit, Codes, and Cost Literature Review and Case Studies, U.S. Environmental Protection Agency, Office of Water, Office of Wetlands, Oceans, and Watersheds, January 2013. <u>http://water.epa.gov/polwaste/nps/upload/rainharvesting.pdf</u>

• Rain gardens

A rain garden is a garden which takes advantage of rainfall and stormwater runoff in its design and plant selection. Usually, it is a small garden which is designed to withstand the extremes of moisture and concentrations of nutrients. particularly Nitrogen and Phosphorus, that are found in stormwater runoff. Rain gardens are ideally sited close to the source of the runoff and serve to slow and treat the stormwater as it travels downhill. The stormwater has more time to infiltrate, which contributes to removal of contaminants, and less opportunity to gain momentum and erosive power.



Rain Garden

• Bioswales

Bioswales are landscape elements designed to remove silt and pollution from surface runoff water. They consist of a swaled drainage course with gently sloped sides (less than six percent) and filled with vegetation, compost and/or riprap. The water's flow path, along with the wide and shallow ditch, is designed to maximize the time water spends in the swale, which aids the trapping of pollutants and silt. Bioswales are commonly used around parking lots. Bioswales can reduce pollutant load by up to 94%.¹⁴



Bioswale

¹⁴ Testing a Bioswale to Treat and Reduce Parking Lot Runoff, Qingfu Xiao, University of California - Davis and E. Greg McPherson, Center for Urban Forest Research, USDA Forest Service, February 24, 2009.

http://www.fs.fed.us/psw/programs/uesd/uep/products/psw_cufr761_P47ReportLRes_AC.pdf

• Urban tree canopy.

An American Forests study in 2008 measured the stormwater retention capacity of Montgomery, Alabama's urban tree canopy. The study measured the city's tree canopy at 34% and calculated its stormwater retention capacity at 227 million ft³. ¹⁵

Streambank Restoration

Streambank stabilization measures work either by reducing the force of flowing water, by increasing the resistance of the bank to erosion, or by some combination of both. Generally speaking, there are four approaches to streambank protection:

- the use of vegetation;
- soil bioengineering;
- the use of rock work in conjunction with plants; and
- conventional bank armoring.

Re-vegetation includes seeding and sodding of grasses, seeding in combination with erosion control fabrics, and the planting of woody vegetation (shrubs and trees). Soil bioengineering systems use woody vegetation installed in specific configurations that offer immediate erosion protection, reinforcement of the soils, and in time a woody vegetative surface cover and root network. The use of rock work in conjunction with plants is a technique which combines vegetation with rock work. Over time, the plants grow and the area appears and functions more naturally. Conventional armoring is a fourth technique which includes the use of rock, known as riprap, to protect eroding streambanks.

These relatively low-cost revegetation measures may suffice if the stream is small, the bed is stable, and banks are not seriously eroded; however, a specific evaluation of the appropriate restoration measures needs to be completed for Town Creek, in particular, but also Richland and Beaverdam Creek where bank erosion is present.

¹⁵ Watershed Forestry Research Guide, A Partnership of the Center for Watershed Protection and the US Forest Service. <u>http://www.forestsforwatersheds.org/urban-tree-canopy/</u>

Public support is a key element in the implementation process. Education is extremely important for increasing public awareness of the water quality problems and offering feasible solutions for remediation and prevention of water quality degradation.

Outreach Goals

The overarching goal of the outreach campaign is to engage agricultural producers, residents, and government agencies in reducing fecal coliform non-point source pollution in the watershed. This will be accomplished by developing and promoting initiatives on water quality issues in the watershed, actions that may be taken to improve water quality, and programs available to assist with water quality improvement projects.

Objectives for education include:

- Educating agricultural producers on non-structural and structural agricultural best management practices that could be implemented.
- Increasing watershed residents and government agencies knowledge on the importance of water quality and controlling non-point source pollution in the Beaverdam Creek watershed for the benefit of its creeks and Lake Oconee.

Goal 1: To educate the general public about the watershed plan and its implementation.

- Post permanent signs along major roads notifying travelers that they are entering the Beaverdam Creek watershed.
- Coordinate with the local 4-H, boys and girl scouts, etc. to hold periodic cleanup events to remove smaller debris from watershed streams and particularly Town Creek.

Goal 2: Educate elected officials and government agencies in the watershed about the watershed plan and its implementation.

 Convene a workshop to provide information on the watershed management plan and its implementation.

Goal 3: Educate agricultural producers and users of individual septic systems in the watershed about watershed issues and solutions.

- Provide information on appropriate agricultural best management practices, their cost and effectiveness in reducing water quality impairment, and available funding assistance programs.
- Provide homeowners utilizing individual septic systems information regarding proper care and maintenance of their system.

Instream monitoring is important to gage the recovery of streams after remediation projects are installed, and is also crucial to support partners as they engage in periodic strategic planning of remediation priorities.

Long-term monitoring associated with this watershed management plan will have the following objective:

• To verify long-term, whether water quality meets GA EPD fishing standards for fecal coliform following implementation of the measures outlined in this plan.

The most intractable sources of variation are likely to be changes over time. Since the primary sources of fecal coliform in the watershed are agricultural runoff, the sanitary sewerage system, and urban runoff, the concentration of fecal coliform will vary seasonally and with variations in precipitation. The most important quality assurance measure will be to sample many times throughout a range of hydrologic conditions.

A long-term monitoring plan for *E.coli* should:

- measure the long-term effectiveness of management practices;
- analyze trends; and
- redefine water quality problems, if any.

Monitoring should be accomplished by Adopt-a-Stream certified personnel under a GAEPD–approved QA/QC Monitoring Plan that follows Adopt-A-Stream methodologies, and focuses, at a minimum, on Town Creek at Martin Luther King Jr. Drive, Richland Creek at Highways 15 and 44, and Beaverdam Creek. This will give a broad picture of water quality conditions in the watershed, a rough assessment of potential pollutant sources, and a general assessment of management measure implementation and effectiveness.

Management Strategies

The basic strategy for implementation of this watershed management plan is to create and manage a program that features both structural and non-structural controls within the watershed to address the fecal coliform issues. The goal of this program is to restore the watershed to the extent that the impaired segment as well as all streams in the watershed meet State water quality standards. Measures that will be utilized to accomplish the goals include increasing installation of agricultural BMPs, repair and replacement of the sanitary sewerage system, mapping and repair, if needed, to the stormwater system, restoring stream banks, implementing practices to mitigate the impact of stormwater on water quality, and available educational opportunities to encourage public and governmental participation in the watershed improvement process. The NRCS and GSWCC will assist with technical advisement with respect to agricultural projects. Other stakeholders, the City of Greensboro, Greensboro, and the Watershed Partnership will make key contributions to other facets of the program, in particular education and outreach.

Management Plan

While inclusion of landowners from the entire watershed will be eligible for any cost-share or grant funded projects, Town Creek above Martin Luther King Jr. Dr, and Richland Creek below Ga Highway 15 have been designated as a priority based on water quality monitoring data. Projects in this portion of the watershed are likely to have the greatest impact on fecal coliform load reduction.

Implementation Plan and Interim Milestones

This Watershed Management Plan anticipates an implementation period of 5 -10 years. However, specific projects may be implemented over shorter periods. This section outlines objectives that apply across the entire implementation process and measurable milestones that should reveal significant progress.

		Imp	lementatior	Plan			
Goal: Improve water quality for meet state water quality stand			it to reduce fecal (coliform loading by a minimu	ım of 20% (s	hort-term) a	and to
- I			5 10			Milestone	
Task	Responsible Agency	Cost	Fund Source	Evaluation Measure	Short	Mid	Long
					(< 2 yrs)	(2-5 yrs)	(>5 yrs)
Objective 1: Establish Watershe	d Partnership.						
Task 1: Establish bylaws and appoint members to ongoing Watershed Partnership. Charge Partnership with responsibility of working with responsible agencies and public to implement Watershed Management Plan.	Greensboro, Greene County, citizens	NA		Establishment of on-going Watershed Partnership.	V		
Objective 2: Establish long-term	monitoring pro	gram to provid	le timely data to s	upport decision making.			
Task 1: Update EPD-approved QA/QC Water Quality Monitoring Plan to provide for post-BMP monitoring for fecal coliform or E. coli.	Oconee River RC&D	\$200	319(h) grant funds	GA EPD approval of QA/QC Water Quality Monitoring Plan and number and frequency of sites monitored.	V		

Task	Deenservikle	Orat	Frond Courses	For the Alexandre		Milestone	
Task	Responsible Agency	Cost	Fund Source	Evaluation Measure	Short	Mid	Long
					(< 2 yrs)	(2-5 yrs)	(>5 yrs)
Task 2: Conduct ongoing short-term, post-BMP monitoring by AAS-qualified personnel under EPD–approved QA/QC Monitoring Plan.	Oconee River RC&D, Greensboro, Watershed Partnership	\$750 annually for supplies.	319(h) grant, City of Greensboro (in-kind labor), Watershed Partnership (in-kind labor).	Monthly E.coli water quality data for up to 7 sites upstream and downstream of installed management practices.	√		
Task 3: Continue monthly monitoring on Town Creek upstream of MLK, Jr. Dr. to potentially isolate suspected sewerage system leak.	Greensboro	minimal	City of Greensboro	Identification of portion of sewerage system potentially leaking.	V		
Task 4: Undertake long-term water quality monitoring by AAS-qualified personnel under EPD-approved QA/QC Monitoring Plan.	Greensboro, Greene County, Watershed Partnership	\$0 - 750	Greensboro and Greene County for cost of supplies and analysis, volunteer hours through Watershed Partnership.	Monthly E.coli or fecal coliform water quality data for, at a minimum, Town Creek above MLK Jr. Dr, Richland Creek at Ga Hwy 15 and 44, Beaverdam Creek.		V	V
Objective 3: Implement manage	ement practices	to reduce E.co	li contamination fr	om identified sources.			
Task 1: Review NMP or CMP with agricultural producers to insure that they are being appropriately implemented.	NRCS, GSWCC, Ag. Ext., SWCD	0	Part of organization's responsibilities	Number of plans reviewed.	V		

Task	Deenensible	Cost	Fund Courses			Milestone	
TASK	Responsible Agency	Cost	Fund Source	Evaluation Measure	Short	Mid	Long
					(< 2 yrs)	(2-5 yrs)	(>5 yrs)
Task 2: Contact agricultural producers for participation in cost-share programs – target producers in subwatersheds upstream of Richland Creek and Ga Highway 44 and Beaverdam Creek.	RC&D Ag Liaison, NRCS, SWCD, GSWCC, UGA Ag Extension,	\$7,000	319(h) grant for Ag Liaison, part of other organization's responsibilities	Number of producers contacted.	V		
Task 3: Install appropriate agricultural BMPs.	NRCS, SWCD, GSWCC, ORRC&D	Varies by BMP. ¹⁶ .	316(h) grant, NRCS, GSWCC, FSA, landowner cost-share	Number of installed BMPs; estimated fecal coliform pollutant load reduction of a minimum of 20%.	V	V	
Task 4: Conduct periodic smoke or dye testing of Greensboro's Sanitary Sewerage System and repair/replace as necessary.	City of Greensboro	Varies depending on scope of project.	UP EPA Special Appropriations Project, Georgia SRF, USDA Rural Development, CDBG, GEFA Ioan, Greensboro	Percentage of repairs completed as identified from smoke or dye testing.	V	V	V

¹⁶See Appendix II, Georgia FY 2016 EQIP Policy.

Task	Deeneneible	Cost	Fund Source	Evaluation Measure		Milestone	
Тазк	Responsible Agency	Cost	Fund Source	Evaluation Measure	Short	Mid	Long
					(< 2 yrs)	(2-5 yrs)	(>5 yrs)
Task 5: Map storm water system.	City of Greensboro	\$6,000 - \$10,000	GEFA, 319(h) grant, Greensboro	Completed inventory map of storm water system.		V	
Task 6: Develop report of needed repair/replacement to Storm Water System and prioritize repairs.	City of Greensboro	\$2,500 – \$5,000	GEFA, local	Completed report.		V	
Task 7: Initiate Repairs to Storm Water System.	City of Greensboro	unknown	GEFA loan	Percentage of repairs/replacements completed annually.		V	\checkmark
Task 8: Monitor water quality at selected storm water outfalls.	City of Greensboro	varies by number of sites monitored; Staff time \$26.44/hr.	In-house	Number of outfalls monitored and number of water quality samples collected annually.		V	\checkmark

Task	Deenservikle	Quest	E	Eacharthan Massame		Milestone	
Task	Responsible Agency	Cost	Fund Source	Evaluation Measure	Short	Mid	Long
					(< 2 yrs)	(2-5 yrs)	(>5 yrs)
Task 9: Identify on-site storm water management strategies that could be incorporated into local ordinances to improve water quality.	City of Greensboro, Greene County	Unknown. Depends on identified strategies. Staff time \$50/hr; Legal Council \$175/hr.	In-house for staff and legal counsel.	Appropriate strategies identified that will lead to improvement in water quality.		V	
Task 10: Provide technical assistance with repair, replacement, and maintenance of individual septic systems.	Greene County Health Department	NA	NA	Percentage of repairs or replacements completed based on number of complaints.	V	V	V
Task 11: Identify and implement practices to manage storm water from governmental properties on- site .	City of Greensboro, Greene County	0	NA	Management practices implemented.	V	V	\checkmark
Task 12: Identify practices to manage storm water from private property on-site and incorporated into development ordinances.	City of Greensboro, Greene County	0	NA	Management practices incorporated into development ordinance.	V	V	

Task	Deenensible	Cost	Fund Course	Evaluation Measure	Milestone		
TASK	Responsible Agency	Cost	Fund Source	Evaluation Measure	Short	Mid	Long
					(< 2 yrs)	(2-5 yrs)	(>5 yrs)
Task 13: Restore degraded stream buffers and stream banks along Town Creek and portions of Richland Creek.	City of Greensboro, Greene County	Varies by scope of project. ¹⁷	local	Restoration of stream buffers and stream banks.	V	V	
Objective 4: Develop and condu	ict educational o	utreach.					
Task 1: Install watershed signage at watershed boundaries on the following roads: Penfield Rd., Ga Hwy 15, US 278, I-20, Ga Hwy 44, and Old Sparta Road.	City of Greensboro, City of Siloam Greene County	\$60/sign (Sign produced by Prison Bureau)	local	A minimum of nine signs installed.	V		

¹⁷While cost for each individual project will vary, a representative cost is provide based on a riparian restoration and streambank stabilization project in Rabun County, GA. Total cost: \$28,626. Cost includes use of heavy equipment, professionals, and volunteers.

[&]quot; Stream bank restoration: 1; approximately 100 feet.

[&]quot; Stream bank stabilization: 1; approximately 1,320 linear feet

[&]quot; Riparian area restoration (and non-native vegetation eradication): Approximately 66,000 square feet

[&]quot; Design & construction by Confluence Engineering

[&]quot; Per permits issued by the Army Corps of Engineers and the GA EPD's Erosion & Sedimentation Control Unit

Task	Deeneneible	Cost	Fund Course			Milestone	
Тазк	Responsible Agency	Cost	Fund Source	Evaluation Measure	Short	Mid	Long
					(< 2 yrs)	(2-5 yrs)	(>5 yrs)
Task 2: Develop and hold workshop for elected officials and government agencies to inform of content of Beaverdam Creek Watershed Management Plan and its implementation.	City of Greensboro, Greene County, Watershed Partnership	\$1,500	US EPA Environmental Education (EE) grant	Number of attendees.	∽		
Task 3: Hold annual river cleanup events.	City of Greensboro, Greene County, Watershed Partnership	\$250 - 1,000 depending on volume of trash collected.	River's Alive, Ag. Extension, City of Greensboro, Greene County, Georgia Power	Number of participants and amount of trash collected.	V	V	\checkmark
Task 4: Convene, at a minimum, bi-annual Adopt-A- Stream water quality monitoring training event.	City of Greensboro, Greene County, Georgia Adopt-a- Stream, Watershed Partnership	0	GA EPD provide training at no cost.	Number of participants and number of certifications.	Ţ	V	V

Indicators to Measure Progress

Targeted water quality monitoring is necessary to measure long-term progress of installed practices. Monitoring must take place under a GA EPD-approved QA/QC Monitoring Plan. Monthly monitoring will occur at Town Creek at MLK Jr. Drive, Richland Creek at Ga Highways 15 and 44, and Beaverdam Creek to provide current data and to evaluate water quality improvements in the Beaverdam Creek watershed.

For more finite objectives, the Evaluation Measure associated with each task in the Implementation Plan will reveal progress that the implementation program is gaining momentum. Referencing these should provide an indication of specific tasks needing more focus. Eligible producer participation rates will be another useful tool in determining the success of grant implementation. Education and outreach participation rates will also be analyzed to help measure progress.

Indicators identified by the WP to measure the status of the watershed management process and educational outreach outlined in this Plan are:

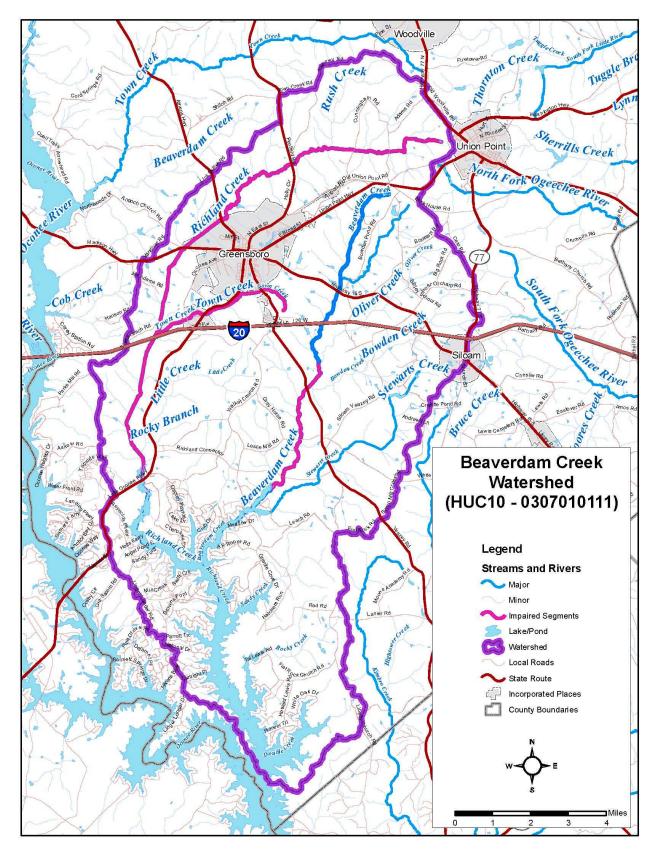
Type of Indicator	Specific Indicator
Environmental	E.coli bacteria - Direct water quality measurement of Beaverdam Creek, Richland Creek, and Town Creek.
Environmental	E. coli bacteria - Direct water quality measurement of storm water outfalls.
Programmatic	Number of urban and agricultural best management practices implemented.
Programmatic	Number of educational initiatives accomplished and number of participants.
Programmatic	Number of river cleanup events.
Social	Participation rate in non-point source education outreach programs.

Of greatest importance, is the measure of how the various implementation projects have translated towards accomplishing the goal of attaining State water quality standards. Tracking the watershed management plan and its water quality improvements will best indicate progress toward reducing fecal contamination.

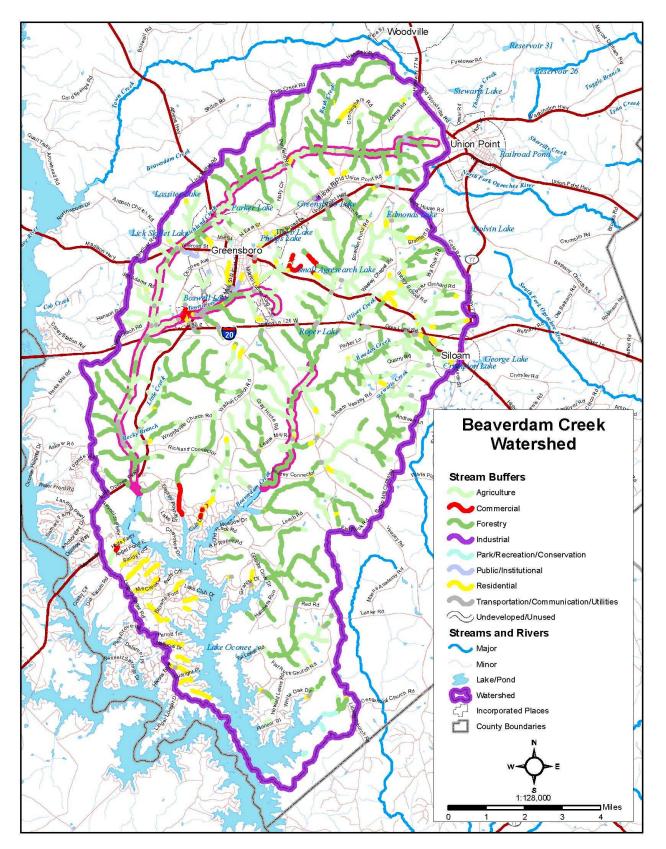
At a minimum of every two years, assessment of the implementation schedule and review of accomplishments are necessary to determine whether task milestones are being met.

Long-term Plan Implementation

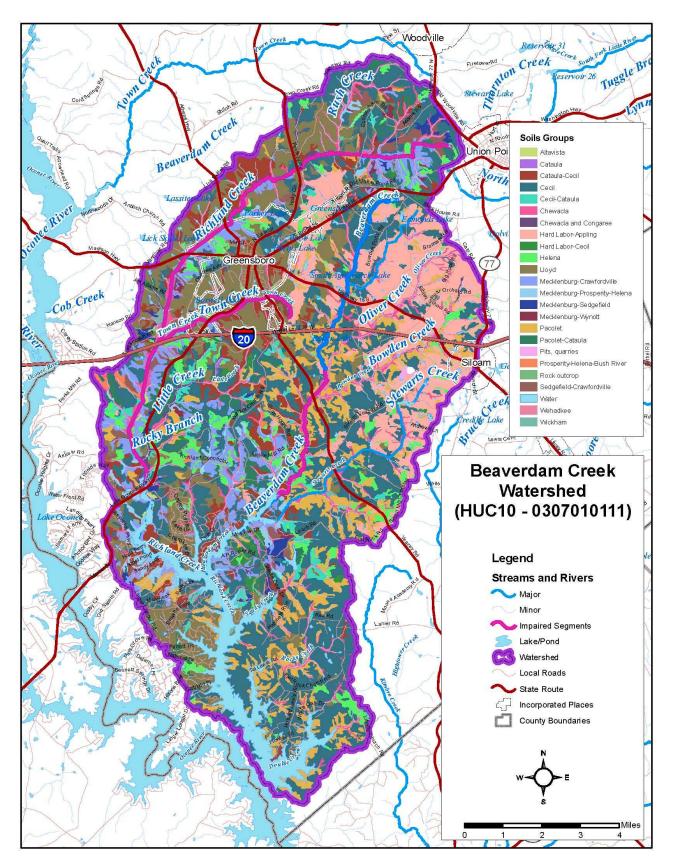
NRCS, GSWCC, UGA Ag. Extension, and SWCD will continue to assist agricultural producers with BMP installation through their respective agency programs. However, funding for other plan implementation activities must be secured through grants, loans, or governmental agencies. Continued plan implementation will be dependent on available funding.



Source: Georgia GIS Data Clearinghouse – Originator, USGS 2000.

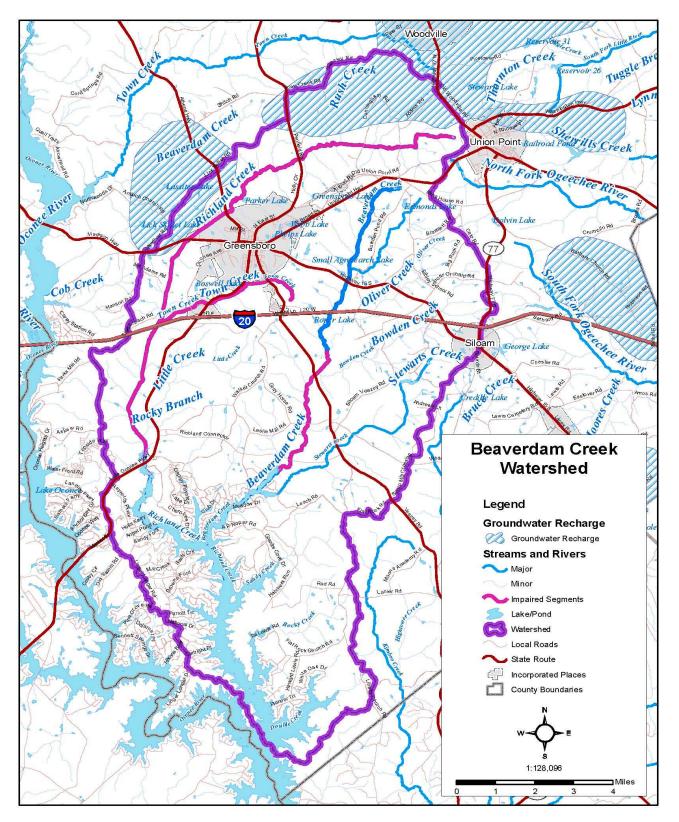


Source: Georgia GIS Data Clearinghouse, Originator, State Based Map of Georgia 2000, updated 2001.

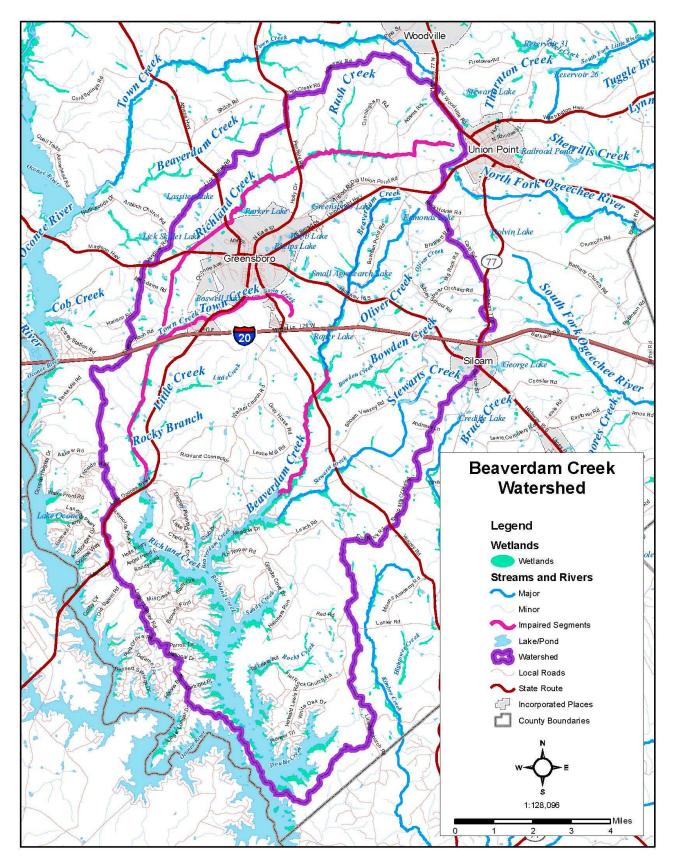


Geospatial Data Gateway, Originator: U.S. Department of Agriculture, Natural Resources Conservation Service, 2013.

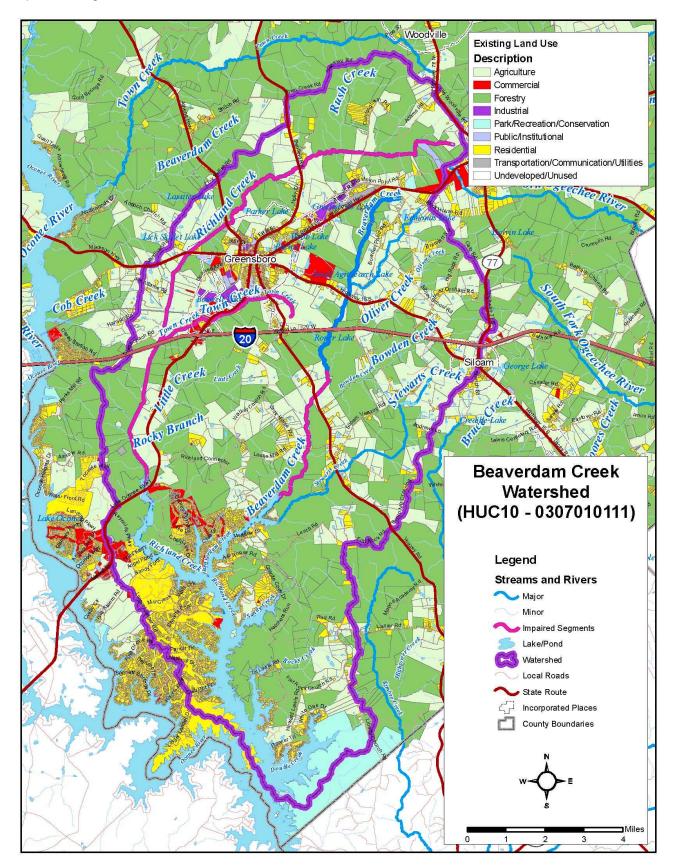
Map 3: Soils Map 4: Groundwater Recharge Area



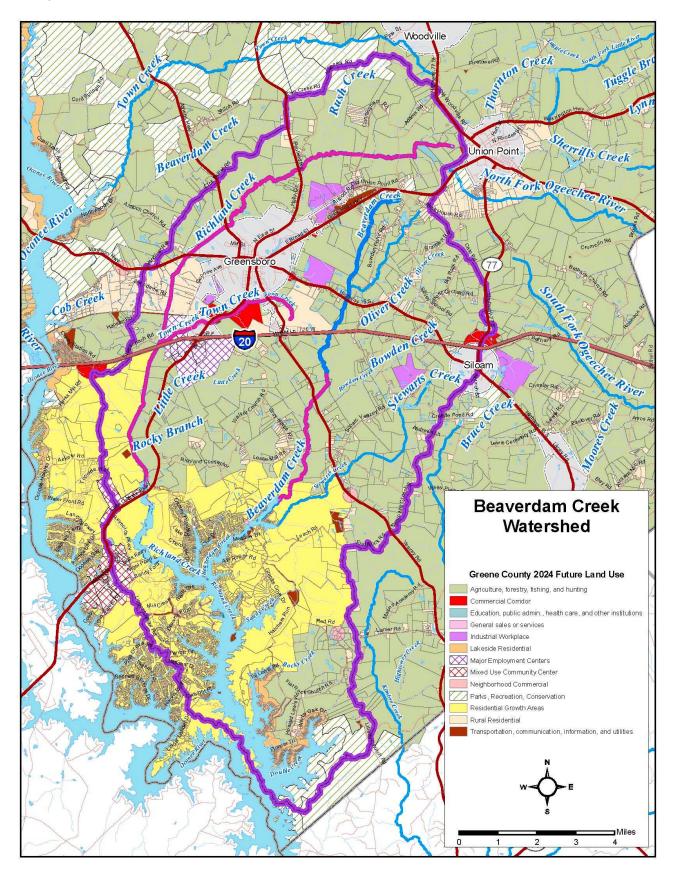
Source: Georgia Hydrologic Atlas Number 20.



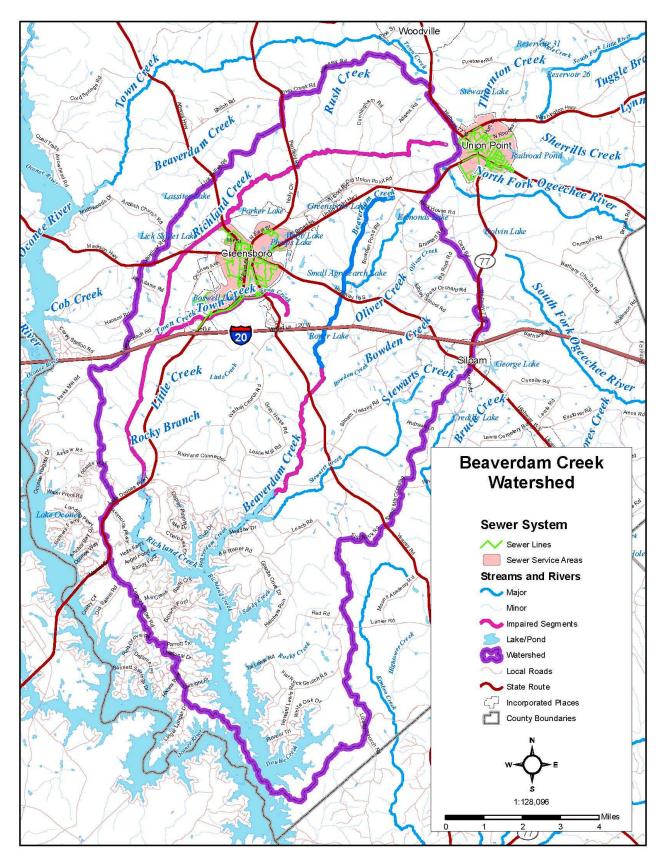
Source: National Wetlands Inventory



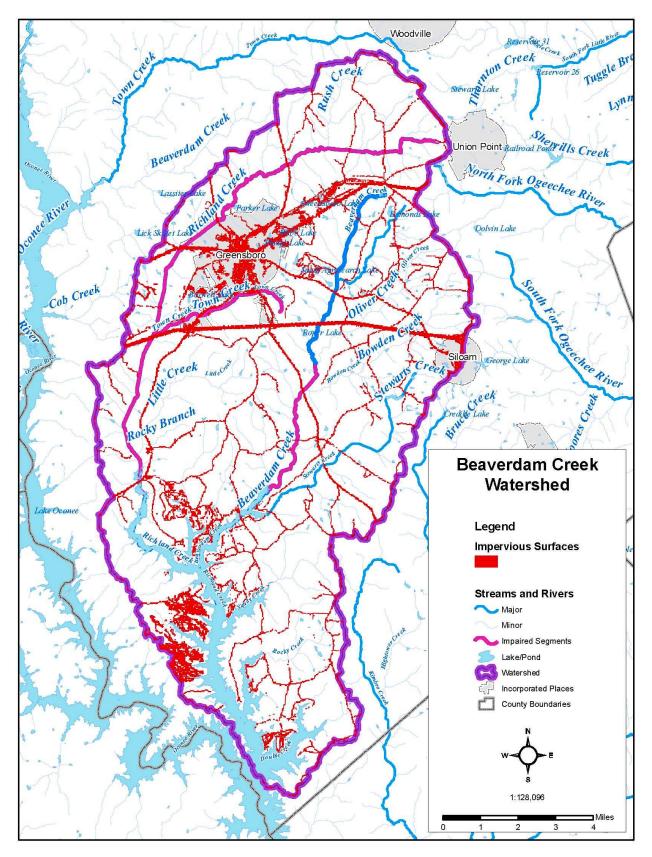
Source: Greene County GIS, 2015.



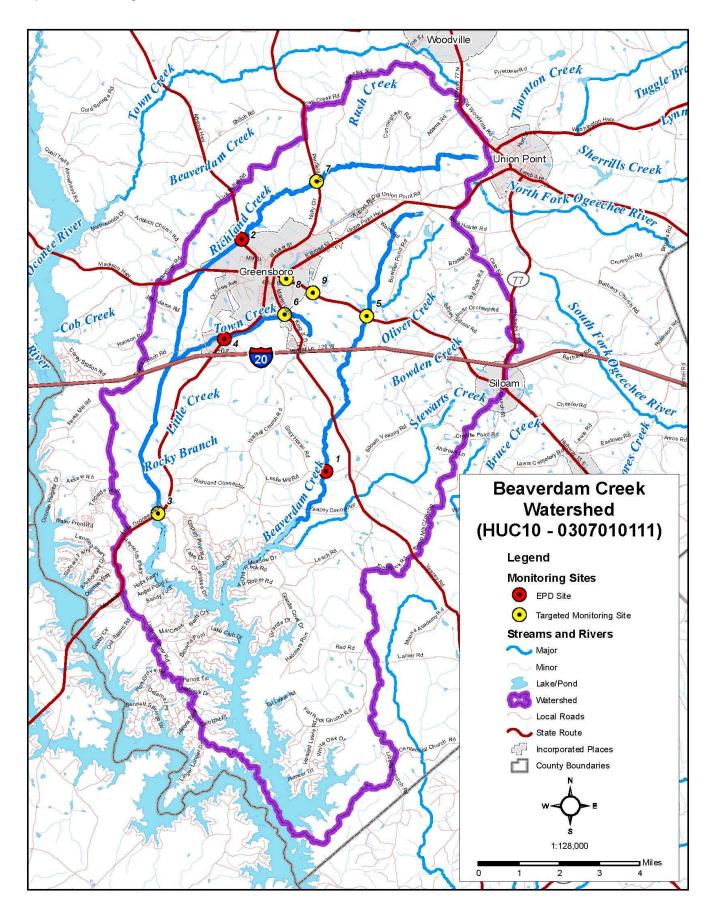
Source: Greene County GIS, 2015



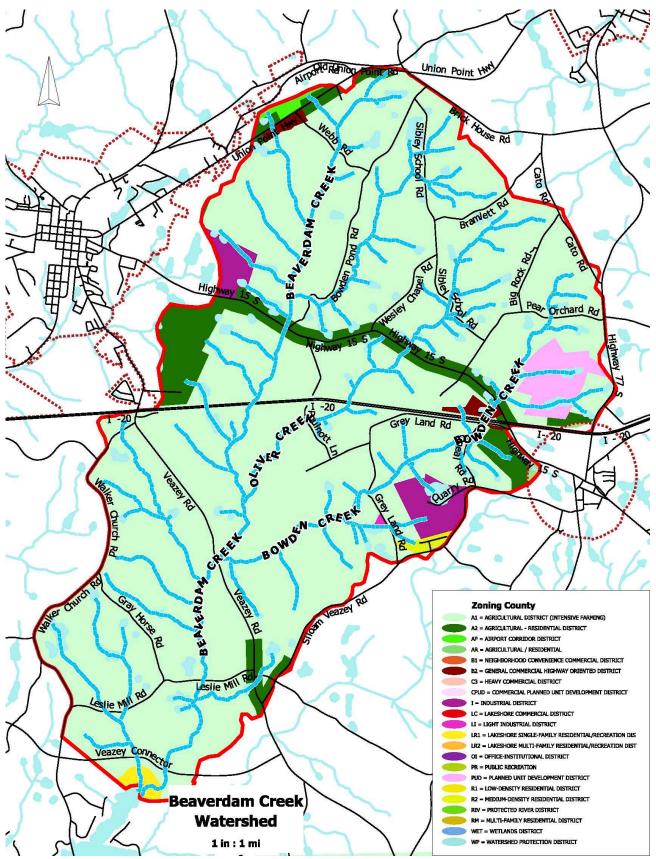
Source: Greene County GIS, 2015



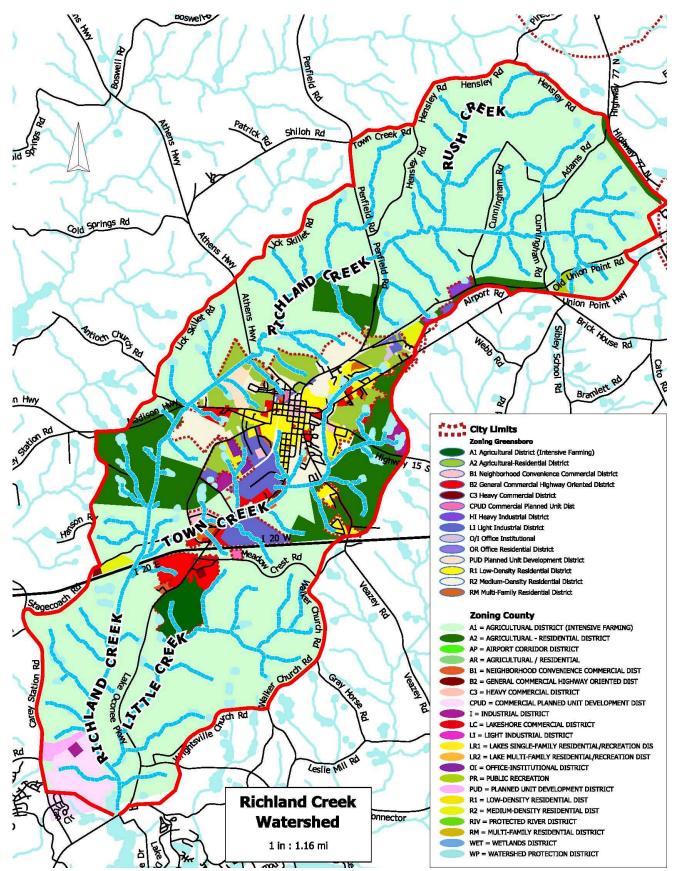
Source: Geospatial Data Gateway, Originator - USDA, NRCS, 2013.



Map 11: Zoning, Beaverdam Creek sub-watershed

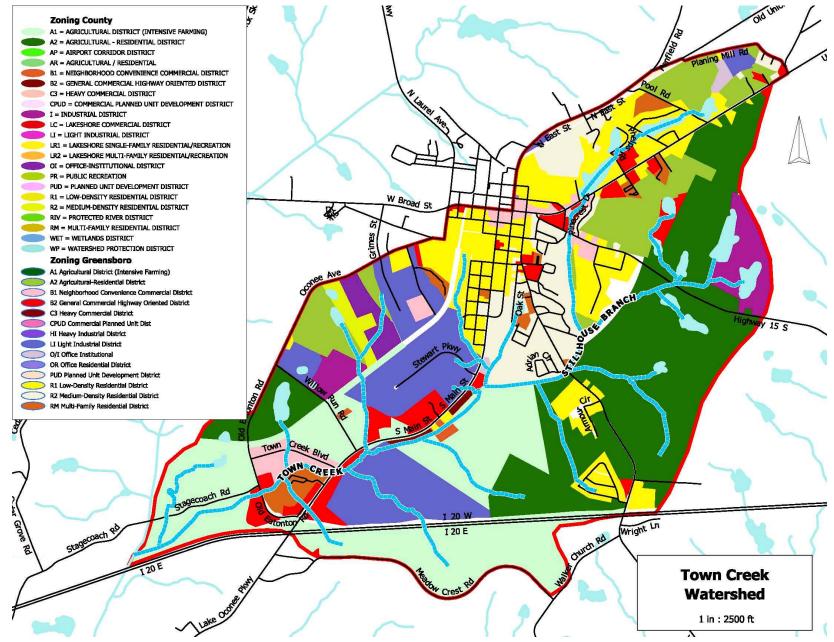


Source: Greene County GIS, 2016.

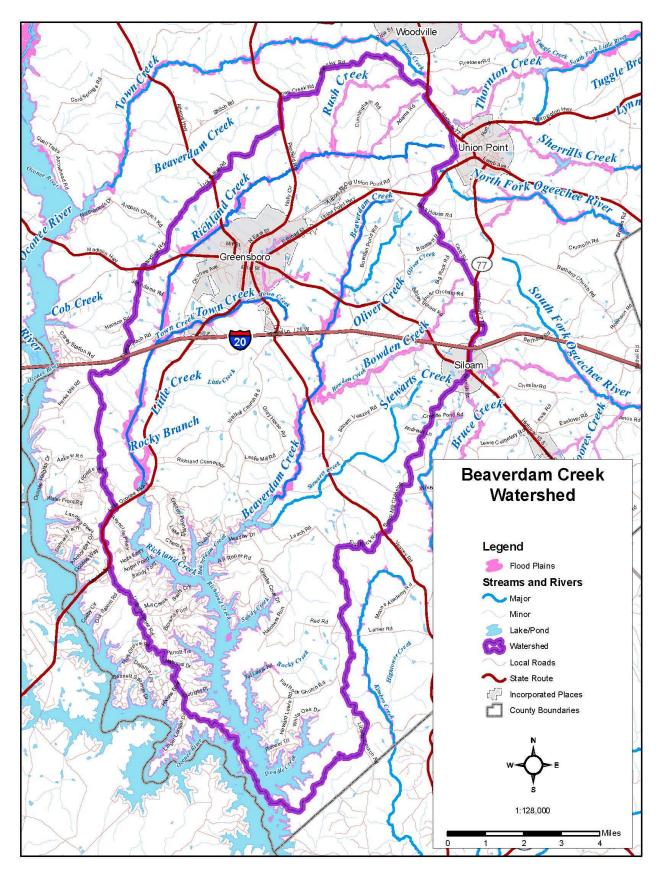


Source: Greene County GIS, 2016.

Map 13: Zoning, Town Creek sub-watershed



Source: Greene County GIS, 2016.



Source: Geospatial Data Gateway, Originator – Federal Emergency Management Agency, 2008.

Last Name	First Name	Affiliation
Beeler	Craig	Resident & Farmer
Brinkley	Steve	City Greensboro
Bruno	Al	Pristine Pastures
Bruno	Marie	Pristine Pastures
Burke	Brenda	City of Greensboro Public Works
Cash	Robbie	Greene County Building and Zoning
Cathy	Tommy	Piedmont Poultry Producers Association
Collier	BJ	Resident
Crouse	John	Harbor Club
Daniel	David	Greene County Extension Service
Davis	Susan	Georgia Power Company
Deering	Angela	Greene Co. Board of Commissioners
Dennis	Bernice	Resident
Durham	Joe	Forester-Landowner
Dyar	Andy	GA Soil and Water Conservation Commission
Eaddy	Cliff	Natural Resource Conservation Service
Eley	Larry	Piedmont Soil & Water District
Haslbauer	Anna	Lake Oconee Property Owners' Assoc.
Hendricks	Scott	Georgia Power Company
Johnson	Linda	Greene Co. Citizen
Lombard	Byron	Greene County
Nesbit	Joseph	Resident
O'Neal	T.J.	Natural Resource Conservation Service
Pearson	Janet	Lake Oconee Water Watch
Postell	Larry	City of Greensboro
Reed	Les	Save Lake Oconee's Waters
Rhodes	C. L.	City of Siloam
Rhodes	Lee	Greene-Morgan Forest Landowners Assoc.
Schneider	Dick	Greene County Chamber of Commerce
Slaughter	Joe	Georgia Power Company
Smith	Jeffery	Greene County Board of Commissioners
Stephens	David	City of Union Point
Thorn	Alan	Resident
Thorn	Patricia	Resident
Tietjen	William	Lake Oconee Water Watch
Wagner	Warren	GA Power
Ward	Hilliard	City of Greensboro
Webb	Barbara	Resident
Yon	Sylbre	Lake Oconee Water Watch

PIEDMONT WATER COMPANY

CAREY STATION WRF (GAJ03 – 0883) OCONEE CROSSING WRF (GAJ03 – 0632)

LAND APPLICATION OF SEWAGE SLUDGE

SLUDGE MANAGEMENT PLAN

PROGRAM OVERVIEW

General

Piedmont Water Company (PWC) owns and operates the Carey Station WRF and the Oconee Crossing WRF which are each advanced wastewater treatment reuse facilities permitted with the Georgia Department of Natural Resources Environmental Protection Division. The Carey Station WRF is located at 4610 Carey Station Road, Greensboro, Georgia in Greene County and the Oconee Crossing WRF is located at 165 McGillivray Lane, Eatonton, Georgia in Putnam County.

The Carey Station Facility's treatment train consists of screening, vertical loop aeration reactors, clarifiers, filtration, U.V. Disinfection and aerobic sludge digestion. The Carey Station facility is permitted for 0.5 MGD. The Oconee Crossing Facility's treatment train consists of screening, Orbal aeration basins, clarifiers, filtration, U.V. Disinfection and aerobic sludge digestion. The Oconee Crossing facility is also permitted for 0.5 MGD.

In 2009, PWC contracted with Alliance Environmental Solutions (AES) of Roswell, Georgia to permit and operate an agronomic land application program to beneficially land apply the biosolids generated by the Carey Station and Oconee Crossing WRF facilities. A Sludge Management Plan was submitted and approved by the Georgia EPD in 2009 for land application of each of the WRF's biosolids at Copeland Farms which is located along Lake Oconee Parkway (State Route 44) in Greensboro, Georgia. AES administered the Sludge Management Plan from 2009 until February, 2012 in which time, Piedmont Water Company took over operation of the Plan and now administers the Sludge Management Plan themselves. Piedmont Water Company will continue to administer their Sludge Management Plan in the future.

Typical operations consist of removing liquid sludge from the facility's digesters into a 3000 gallon tanker truck and transporting and land applying the sludge at Copeland Farms. The approved land application site consists of approximately 154 acres of farmland which is divided into four (4) separate fields. Liquid sludge is applied at or below agronomic rates for the liquid biosolids generated at both facilities.

Land Application Management Program

The approved Biosolids Land Application Management Plan for the Oconee Crossing WRF and Carey Station WRF require that the biosolids generated at the facilities be beneficially recycled by land application to the permitted farm site. The biosolids are land applied as an agricultural resource at or below agronomic rates. The biosolids are applied to the hay and pasture land for total or partial replacement of commercial nitrogen (N) and phosphorus (P). The actual amount of biosolids applied is dependent upon the nutrient requirement of the specific crop being grown and the nutrient content of the biosolids.

Biosolids application scheduling is dependent upon biosolids production and the crop management plan. Hay production fields are applied in split applications as are normally done when commercial fertilizers are applied. These applications will occur prior to grass growth in the spring, after each cutting in the growing season or; whenever most appropriate. Application fields will receive biosolids in an agronomic manner and in accordance with the conditions of the letter of authorization and permit issued by the Georgia Environmental Protection Division. Nitrogen loading rates will be the limiting nutrient determining the agronomic application rates. An acceptable pH will be maintained in the soil, biosolids and lime mixture equal to or greater than 6.5 on all application sites with mineral soils.

Prior to an application event, an application rate is determined based on a current biosolids nutrient analysis. A nutrient analysis is obtained by collecting representative biosolids samples from the material to be land applied, compositing the samples and submitting the composite sample to a lab familiar with biosolids analysis. The composite sample is analyzed for requirements set forth by 40 CFR Part 503. Plant available nitrogen (PAN) is calculated from this biosolids analysis and the application rate is determined if the amount passes the two dry tons per acre threshold per calendar year.

Once the appropriate rate is calculated, the biosolids are removed from the WRF(s) and transported to the permitted application sites in an appropriate leak proof transport vehicle. The transport vehicle will travel major routes to application fields where possible. Upon arrival at the field, the transport vehicle will land apply the biosolids directly from the transport vehicle. During this operation, the biosolids applicator will operate in a manner to obtain an even application consistent with agricultural requirements.

At the start of each work day, the driver shall inspect the fields in use for that day. He will identify the permit required buffer zones for that day and will adhere to these restricted areas at all times. Transport and application equipment will only enter a field when conditions are appropriate for application. Biosolids will only be applied when the field is capable of supporting the equipment. When field conditions are not appropriate for an application, such as during wet periods, the biosolids will remain at the WRF(s) until field conditions are suitable.

Buffe	Zones		
Land Application of Sewage Sludge Sha buffer zones:	all Not Occur w	ithin the followi	ng
	1	n Distance(ft) to oplication Area	Land
Adjacent Features	Surface Application	Incorporation	Winter
Occupied Dwellings	300	150	300
Water Supply Wells & Springs	500	250	500
Property Lines	100	50	100
Perennial Streams and Other Surface Waters Except Intermittent Streams	100	35	100
Intermittent Streams/Drainage Ditches	25	25	50
All Improved Roadways	10	5	10
Rock Outcrops and Sinkholes	25	25	25
Agricultural Drainage Ditches w∕ Slopes ≤ 2%	10	5	10

Application Rates

The biosolids application rate is based on the plant available nitrogen (PAN) requirement for the crop and the PAN content of the biosolids. The PAN requirement is based on grass and hay crops for Copeland Farms which has a nitrogen requirement of 200 lb N/acre/year and from the by local agricultural extension agents and information provided with each soil test.

The PAN content of the biosolids will be based on the analysis of the material for its total Kjeldahl nitrogen (TKN), ammonium-nitrogen (NH₄-N), nitrate/nitrite (N0₃-N), nitrite-nitrogen (NO₂-N) content and the mineralization rate of the organic nitrogen into inorganic nitrogen. Most of the nitrogen in the biosolids is in organic form. As the biosolids are incorporated into the soil, the soil microorganisms utilize the biosolids as an energy and nutrient source. In the process, a portion of the organic nitrogen is mineralized or biologically converted into inorganic nitrogen.

Various environmental factors such as temperature, moisture and carbon to nitrogen ratio affect the mineralization rate. Typical mineralization rates range from 10 to 40 percent. A mineralization rate of 30 percent is used for both the Carey Station WRF and the Oconee Crossing since all biosolids are aerobically digested.

The calculated PAN application rate varies according to the method of application. When biosolids are surface applied, as with this application, a large portion of the NH_3 gas is volatized and is lost as a nutrient for crop uptake. As a result, the actual PAN content of the biosolids is less when the biosolids are surface applied as compared to when they are injected into the soil. To reflect the lower PAN content for surface applied biosolids due to

volatilization of NH_3 gas, the calculation used to determine he PAN for surface applied biosolids verses injected biosolids reduces the NH4-N content of the material by 50 percent.

Biosolids Characteristics

The specific nutrient and metals content of the biosolids to be land applied are presented in the enclosed sludge analysis for each facility. The biosolids characteristics for both facilities are typical of other similar aerobically digested municipal biosolids.

Biosolids and Soil Monitoring Plan

Both the biosolids and application sites soils will be sampled at specific intervals to assure the beneficial utilization of the material for agricultural production and to confirm that the application program is not creating any environmental hazard.

Biosolids Monitoring:

Based on the annual volume of the biosolids generated and the monitoring frequency requirements for pollutants, pathogen densities, and vector attraction for Class B biosolids as promulgated by the 40 CFR 503 regulations; biosolids are monitored at both WRF's once per year based on volume. Annual biosolids analysis is conducted by a qualified laboratory familiar with biosolids analysis. The biosolids analysis will be conducted in conjunction of the requirements stated in 40 CFR 503.

Soil Monitoring:

Initial soil sample were taken and analyzed for all fields that were permitted and included with the initial permit application. Each soil sample collected and analyzed consisted of a composite of multiple individual samples taken from the upper 8-inches of a specifically designated field.

Additional soil sampling consists of composite sampling and analysis on an annual basis on each field where an application event has been conducted during the calendar year. Soil samples are analyzed for routine soil fertility and lime requirements. Soil samples are taken in the end of the year to reflect the full year of land application events.

Record Keeping and Reporting Plan

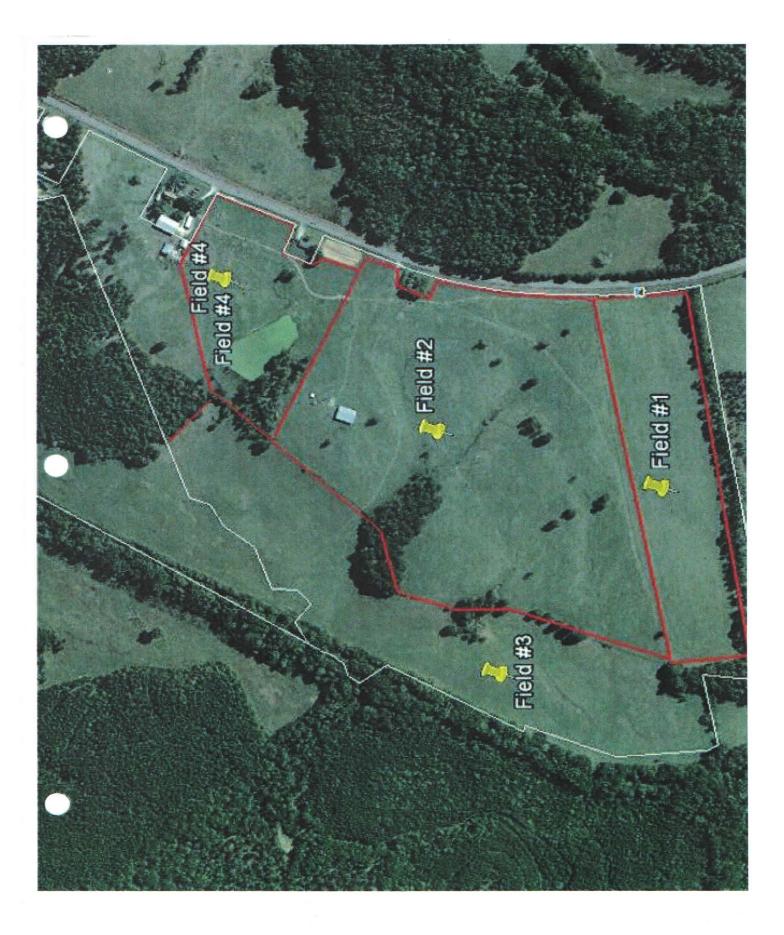
As required by the Sludge Management Plan, all appropriate records pertinet to the successful management of the land application program will be maintained for the benefit of Georgia EPD, USEPA, and the landowner. Each year an annual summary of the activities of the program are prepared and submitted to the appropriate agencies and participants. The annual summary includes at the minimum:

- 1. Identification of the source of the biosolids.
- 2. Date of biosolids application
- 3. Location of biosolids application (field number/date/time)
- 4. Method of application

- 5. Weather conditions at time of application.
- 6. Soil condition
- Type of crops or crops to be grown
 Volume of biosolids applied in wet/dry tons per acre
- 9. Pollutant loading rates for all fields.
- 10. Soil fertility and pH analysis for each field applied that year.
- 11. Annual analysis of biosolids from each facility.

Spill Control Plan

- 1. Halt source of spill.
- 2. Contain spill.
- 3. Clean-up. Approved method by EPD/DNR/EPA.
- 4. Final Clean up.
- Notification to EPD/DNR, local fire company (if applicable)
 Contact land owner if affected.
- 7. Management of clean-up operations and steps for further avoidance of spill.
- 8. Reporting in writing to all agencies and parties involved.



Georgia FY 2016 EQIP Policy

This Policy is based on the Final Rule (IFR) for EQIP, published 12/12/14 in Vol. 79 No. 239 of the Federal Register, 7 CFR Part 1466.

Planned conservation practices must be maintained for the lifespan of the practice, as indicated on the NRCS-CPA-1155 or -1156. All practices must also meet the minimum criteria in the Conservation Practice Standard (see the Georgia eFOTG) and the criteria listed below. Extents above the minimum necessary to meet practice criteria are not eligible for payment. Note: Payment for some practices is only authorized when used in conjunction with another practice, as detailed in the Conservation Plan of Operation (CPO), with or without payment. The applicant is responsible for the installation, use, and maintenance of all components required in the conservation management system.

Management Practices - Management practice payments are only available on acres where the practice option has not been previously applied &/or utilized, and where there will be a higher level of management required for the requested practice option. Management payments are not authorized if the conservation practice option has previously been implemented on the acres in the application, with or without financial assistance. A management practice payment is only authorized once per acre within the length of the contract period for that conservation practice. Some management practices, where noted in the practice footnotes, are limited to no more than three separate management practices combined per acre.

Structural Practices - Structural practices include conservation practices that are either structural or vegetative, and have a multi-year lifespan. Structural practices involve the establishment, construction, or installation of site-specific measures. Payments are established as a one-time payment. The landowner must be a signatory to a contract which has EQIP funds used for any structural practice. Extents above the minimum necessary to meet practice criteria are not eligible for EQIP payment. Note: Payment for some practices is only authorized when used in conjunction with another practice, as detailed in the Conservation Plan of Operation (CPO), with or without payment.

Conservation Activity Plans (CAP) - Conservation Activity Plans are conservation plans developed for producers to assist in identifying conservation practices needed to address a specific natural resource need. CAPs are completed by NRCS certified Technical Service Providers (TSP). The list of NRCS certified TSPs is available on the NRCS TSP webpage: www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/technical/tsp

orest land	and specific notes						
(il dlife on	d specific notes						
Practice Code	Conservation Practice	Payment Unit	Payment Rate	Maximum Amount	HU Payment Rate	HU Maximum Amount	Lifespa
472	Access Control						
	Bat Cave Exclusion	SgFt	\$10.87		\$13.04		10 Years
	e to Wildlife Landuse Only. Only allowed on caves actively utilized as bat hiberna			control. Must r		proval from the	
iologist	to implement this practice. Must be planned as a supporting practice in conjunctio	n with 643 Rest	oration and Mar	nagement of Ra	re and Declining	Habitats.	
309	Agrichemical Handling Facility						
	Open building, locked chemical storage room, concrete slab floor 1/	SqFt	\$13.14		\$15.77		
1	Enclosed building, locked chemical storage room, concrete slab floor 2/	SqFt	\$20.76		\$24,92		15 Years
Includes	s following components of an open, post frame agrichemical handling facility: wash	down station,	locked chemical	storage area, c		d concrete pad w	
ump area	a, and roof structure. Planner may add the following (if needed): critical area planti	ng, mulch, HUA	for entrance pa	ds, and roof run	off. Building m	ust be designed	l and
	on certified by registered Georgia PE or Area Engineer.		THE OTHER PROPERTIES.				
	s following components of an enclosed, roofed agrichemical handling facility: wash						
	a, a flexible membrane beneath concrete pad, and roof structure. Planner may ado			al area planting,	mulch, HUA for	r entrance pads, a	and roof
inoff. Bui	ilding must be designed and installation certified by registered Georgia PE o	Area Enginee	r.				
					[
	Animal Mortality Facility						
316	Animal mortancy racinty						
	Static pile, Wood Bin(s) 1/	SqFt	\$6.78		\$8.13		
0		SqFt LB/Day	\$6.78 \$13.74		\$8.13 \$16.49		
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Practice Code	Conservation Practice	Payment Unit	Payment Rate	Maximum Amount	HU Payment Rate	HU Maximum Amount	Lifespa
314	Pruch Managament						
314	Brush Management Mechanical, Hand tools	Acre	\$37.27		\$44.73		
	Mechanical Bush Hog 3/	Acre	\$28.12		\$33.75		e.
	Mechanical Boller Chopper 4/	Acre	\$42.17		\$50.60		
	Mechanical & Chemical, Small Shrubs, Medium Infestation 2/	Acre	\$107.08		\$128.49		
	Chemical Hand 5/	Acre	\$72.58		\$87.10		
	Chemical - Ground Applied 1/	Acre	\$41.31		\$49.57		
	Chemical, Aerial Applied 6/	Acre	\$57.08		\$68.50		10 Years
Brush blands a Remov Remov	ble to Wildlife Landuse Only. Method selected must have the least negative e management on grazed forest, or pasture thru the use of broadcast applicatio and other areas not in or directly adjacent to streams, ponds, or wetlands. val of small woody vegetation infestations by the use of mechanical cutter, cho val of brush by the use of mechanical cutter.	n of material using c	nemical(s) to re				Contraction of the second
	moval of brush by the use of chopper.						
	able to Wildlife Landuse Only. Use of mechanical hand treatments for sensit used where ground applied herbicide application is not feasible or cost effectiv		d be damaged	by broadcast app	olications or lar	ge machinery.	
TObe	used where ground applied herbicide application is not leasible of cost effectiv	e.		1			
676							H
672	Building Envelope Improvement						ş.
	Building Envelope - Attic Insulation 1/	SqFt	\$0.48		\$0.57		5
	Building Envelope - Wall Insulation 2/	SqFt	\$1.66		\$1.99		
	Building Envelope - Sealant 3/	Ft		\$ 10,000.00	\$1.21		
	Building Envelope - Greenhouse Screens 4/	SqFt	\$1.49	\$ 10,000.00	\$1.79	\$ 10,000.00	
	Greenhouse - Insulate Unglazed Walls 5/	SqFt	\$0.23	\$ 10,000.00	\$0.27	\$ 10,000.00	
				A		\$ 30,000,00	10.14
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	Conservation Practice	Payment Unit	Payment Rate	Maximum Amount	HU Payment Rate	HU Maximum Amount	Lifesp
11N	Conservation Cover lative Grass 2/	A	¢105-00		6000.04	1	
N	lative Grass 2 Iative Grass - Local seed source	Acre Acre	\$185.28 \$93.48		\$222.34 \$112.18		2
	Pollinator Habitat 3/	Acre	\$381.22		\$457.47		
L	egume 1/	Acre	\$170.78		\$204.93		
S	Special Restoration/Pollinator Habitat	Acre	\$954.54		\$1,145.44		
IV	/onarch Habitat/Milkweed	Acre	\$1,716.57		\$2,059.89		3 Years
rchard a	and groves needing permanent protective cover in the alleyway. Limited to 1 y	/ear.					
ss option ited to 1 Permaner cification plicable	nt vegetation, including mix of native grasses, legume, forbs, established on a n on planting mix. Limited to 1 year. to Wildlife Landuse Only. Only native plantings allowed as a supporting prac	for Wildlife Habitat iny land needing pe ctice to Restoration	if the objective ermanent vegeta	is wildlife. The c ative cover that p ent of Rare or Do	locument is filed provides habitat eclining Habitat	d alphabetically ir for pollinators. S	n eFOTC
rovemer	nt (395), Upland Wildlife Habitat Management (645), Wetland Creation (658), 1	Wetland Restoration	on (657), or We	tland Wildlife Ha	bitat.		
28 C	Conservation Crop Rotation						
S	specialty Crops 1/	Acre	\$17.44		\$20.93		1 Year
ited to 2							
ted to p	urposes of reducing a) plant pests or b) reducing erosion and increasing soil h	ealth.					
he rotat	tion established adds higher residue crop(s) to the rotation that reduce erosion	ı, improve soil qua	lity, and break p	est cycles.			
32 C	Contour Buffer Strips		1				-
	lative	Acre	\$254.58		\$277.36		2
	ntroduced	Acre	\$204.08		\$277.30		
	Drganic Seed	Acre	\$226.82		\$244.86		1 Year
	to Wildlife Landuse Only. Only allowed when the contour buffer strips will be	100000		ctive cropland.	¢211.00		
							-
	Cover Crop Cover Crop-Chemical Kill 1/	Acre	\$60.98	\$ 24,000.00	\$73.18	\$ 24,000.00	2
				\$ 24,000.00		\$ 24,000.00	2
	egume-N Fixation 2/ Drganic Cover Crop 4/	Acre Acre	\$71.40 \$75.97	\$ 15,000.00	\$85.68 \$91.17	\$ 15,000.00	2
	Drganic Cover Crop 4/	Acre	\$121.33	\$ 15,000.00	\$145.59	\$ 15,000.00	3
	/ix 3/	Acre	\$67.18		\$80.61		1 Year
ited to 2		1/10/0	φ07.10		400.01	1	
The cove hod (mo he cove he cove hod (mo	minimum of 3 weeks prior to planting the subsequent crop. Limited to \$24,000 er crop should be allowed to generate as much biomass as possible, without d owing, rolling, undercutting, etc.), a minimum of 3 weeks prior to planting the su er crop will consist of 3 to 4 species including cereal grains, legumes, and tillag er crop should be allowed to generate as much biomass as possible, without do owing, rolling, undercutting, etc.), a minimum of 3 weeks prior to planting the su	lelaying planting of ubsequent crop. Je radishes. Limited elaying planting of ubsequent crop. Th	d to \$15,000 up the following cro nis scenario RE	to 2 years. op. The cover cr QUIRES use of	op will be termi Certified Organi	nated using a me	echnical
he cove	rr crop should be allowed to generate as much biomass as possible, without do wing, rolling, undercutting, etc.), a minimum of 3 weeks prior to planting the su	, ., .			10.000 P.C.Y P.S. 10.	Service and the service of the servi	echnical
hod (mo	Critical Area Planting						
	lative seeding - light tillage	Acre	\$309.66		\$371.59		
42 C			\$309.00				
42 C	ntroduced Grass light tillage	Acre	\$364.32		\$437.19		2
42 C N In	ntroduced Grass light tillage Grass Hydroseeding 1/				\$437.19 \$2,410.11		10 Yea
42 C N In G		Acre Acre	\$364.32 \$2,008.42	newly constructe	\$2,410.11	£	
42 N In G stablishn roseedin blicable	Grass Hydroseeding 1/ ment of permanent vegetation on a site that is void or nearly void of vegetation ng steep areas, grass seed, companion crop, and fertilizer and lime with applic to Wildlife Landuse Only. Native seeding -light tillage is the only approved p	Acre Acre due to a natural o cation.	\$364.32 \$2,008.42 ccurrence or a r		\$2,410.11	£	
42 C N In G stablishn roseedin blicable	Grass Hydroseeding 1/ ment of permanent vegetation on a site that is void or nearly void of vegetation ng steep areas, grass seed, companion crop, and fertilizer and lime with applic to Wildlife Landuse Only. Native seeding -light tillage is the only approved p Diversion	Acre Acre due to a natural o ation. ayment scenario fo	\$364.32 \$2,008.42 ccurrence or a r		\$2,410.11 d conservation	£	[
42 C In G stablishn roseedin blicable	Grass Hydroseeding 1/ ment of permanent vegetation on a site that is void or nearly void of vegetation ng steep areas, grass seed, companion crop, and fertilizer and lime with applic to Wildlife Landuse Only. Native seeding -light tillage is the only approved p Diversion	Acre Acre due to a natural o cation. ayment scenario fo Ft	\$364.32 \$2,008.42 ccurrence or a r		\$2,410.11	£	nclude
42 C In G stablishn roseedin blicable	Grass Hydroseeding 1/ ment of permanent vegetation on a site that is void or nearly void of vegetation ng steep areas, grass seed, companion crop, and fertilizer and lime with applic to Wildlife Landuse Only. Native seeding -light tillage is the only approved p Diversion	Acre Acre due to a natural o cation. ayment scenario fo Ft	\$364.32 \$2,008.42 ccurrence or a r		\$2,410.11 d conservation	£	nclude
442 N In Gastablishn roseedin Nicable 162 D udes gra	Grass Hydroseeding 1/ ment of permanent vegetation on a site that is void or nearly void of vegetation ng steep areas, grass seed, companion crop, and fertilizer and lime with applic to Wildlife Landuse Only. Native seeding -light tillage is the only approved p Diversion Diversion ading and shaping. Need to add critical area planting and mulching (if needed	Acre Acre due to a natural o cation. ayment scenario fo Ft	\$364.32 \$2,008.42 ccurrence or a r		\$2,410.11 d conservation	£	nclude
442 Q N Irr G stablishn roseedin blicable 62 D udes gra	Grass Hydroseeding 1/ ment of permanent vegetation on a site that is void or nearly void of vegetation ng steep areas, grass seed, companion crop, and fertilizer and lime with applic to Wildlife Landuse Only. Native seeding -light tillage is the only approved p Diversion Diversion ading and shaping. Need to add critical area planting and mulching (if needed Early Successional Habitat Development/ Management	Acre Acre due to a natural o cation. ayment scenario fo Ft	\$364.32 \$2,008.42 ccurrence or a r or the widlife fun \$1.69		\$2,410.11 d conservation \$2.02	£	nclude
442 Q N Irr G Stablishn roseedin Jilicable 662 D D udes gra 447 E	Grass Hydroseeding 1/ ment of permanent vegetation on a site that is void or nearly void of vegetation ng steep areas, grass seed, companion crop, and fertilizer and lime with applic to Wildlife Landuse Only. Native seeding -light tillage is the only approved p Diversion Diversion ading and shaping. Need to add critical area planting and mulching (if needed Early Successional Habitat Development/ Management Mowing 1/ 3/	Acre Acre a due to a natural o ation. ayment scenario fo Ft) Acre	\$364.32 \$2,008.42 ccurrence or a r or the widlife fun \$1.69 \$28.06		\$2,410.11 d conservation \$2.02 \$33.67	£	nclude 10 Yea
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Perman Tempor Temporary Electric Temporary Electric reneral Manual S stablish a grazing culude livestock planned grazing pplicable to Will anagement of R anagement (644 386 Field			¢7.44		\$2.20		
Tempo Cone and Two S Temporary Elec eneral Manual S stablish a grazing clude livestock planned grazing pplicable to Wil anagement of R anagement (644 386 Field	anent Electric 1/	Et.	1		\$2.93		
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Temporary Electer eneral Manual S stablish a grazing cclude livestock planned grazing pplicable to Wil anagement of R anagement (644 386 Field	oorary Electric-Polywire 2/	Ft	\$0.63	\$ 1,400.00	\$0.75	\$ 1,400.00	20 Years
eneral Manual S stablish a grazing clude livestock planned grazing pplicable to Wil anagement of R anagement (644 386 Field	Strand Permanent Electric Cross Fencing is acceptable for control of cattle lectric Polywire - For Cross Fencing Only. Intended for higher intensity uses						
	I Subpart I - 515.81 E.(1) Boundary fence (property line fence) or perimeter for ing operation; however, the practice may not be installed until the CRP contr & from an environmentally sensitive area, such as a riparian area or wetland ng system that facilitates improved management of grazing land. Vildlife Landuse Only . Allowed when planned as a supporting practice to Pr Rare or Declining Habitats (643), Stream Habitat Improvement (395), Uplan 44). This practice will not disturb high quality, natural habitat.	act has expired. . On land where rescribed Grazin	On land to pro the fence is an g (528) in conju	itect, restore, dev i integral part of a unction with Fore	elop, or enhand conservation i st Stand Improv	ce habitat for wild management syst vement (666), Re	life or to em, such storation
INAUVE	d Border		001110		6000.00		
	e Grass 2/ nator Habitat 3/	Acre Acre	\$344.19 \$374.42		\$380.38 \$416.66		
	duced Grass 1/	Acre	\$231.65		\$245.33		10 Years
	des seedbed prep and planting of introduced species. The area of the field		- 10 Million 10 Million 10				
Practice include anting recomme pplicable to Wil	des seedbed prep and planting of native species. The area of the field bord ides seedbed prep and planting of pollinator friendly herbaceous species. Th nendations. Vildlife Landuse Only. Allowed when planted around active cropland and th ce to use non-native species if no suitable native species are available.	ie area of the fie	eld border is tak				
	er Strip						
Filter S	Strip, Native species: Forgone Income 3/ 4/	Acre	\$288.17		\$313.15		
			\$235.15		\$249.53		
	Strip, Introduced species: Forgone Income 2/	Acre	ψευυ.ιυ		\$455.24		10 Years
	Strip, Introduced species: Forgone Income 2/	Acre Acre	-				
	Strip, Organic Seed, Inc Forgone 1/	Acre	\$406.57	a of the filter strik		foreduction	
Native herbace		Acre bed prep and pla	\$406.57 anting. The are			f production.	

Practice Code		Payment	Payment	Maximum	HU Payment	HU Maximum	
	Conservation Practice	Unit	Rate	Amount	Rate	Amount	Lifespa
			ll d		<u>t</u>		
394	Firebreak						
	Constructed - Dozer 1/	Ft	\$0.23		\$0.28		2 2
	Constructed - Light Equipment 2/	Ft	\$0.09		\$0.10		5 Years
stall fireb	break as per required burn plan and according to the GFC GA Best Managemen	nt Practices for For	estry Manual.				
track m	ounted equipment						
rubber ti	tired equipment						
512	Forage and Biomass Planting						
			Aug 2010 (1111)		14452700000-0107		
	Seedbed Prep. Seed & Seeding-Native Per. Warm Season Grass 5/	Acre	\$351.26		\$421.51		
	Seedbed Prep. Seed & Seeding-Intro. Perennial Grasses. 4/	Acre	\$245.80		\$294.96		
	Seedbed Prep. Seed & Seeding-Intro. Perennial Grasses Organic 3/ Grass Establishment-Sprigging 1/	Acre Acre	\$266.95 \$287.54		\$320.34 \$345.04		
	Overseeding Legumes 2/	Acre	\$207.51		\$249.01		
	Overseeding Legumes - Organic	Acre	\$199.82		\$239.78		
	Remediation - Seed & Seeding-Introduced Perennial Grasses.	Acre	\$93.86		\$112.63		5 Years
Spriggin	ng new grasses with sprigging application. This scenario assumes fertilizer, spr	igs, equipment and	labor for seed	bed prep, tillage	, sprigging ,and	spreading.	
	eding legumes in an existing pasture. This practice may be utilized for organic	or regular productio	on. This scenari	o assumes fertil	izer, seed, equip	ment and labor	for no-till
	nd amendment spreading.		r			1 1 71 71 1	
	sh adapted introduced perennial grasses using organic approved seed. Used fo fertilizer, seed, equipment and labor for seed bed prep, tillage, seeding ,and spr		al or no-till seed	ling. This pract	ce is for organic	production. Thi	s scenari
	sh adapted introduced grasses. Used for either conventional or no-till seedings.		mes fertilizer, s	eed, equipment	and labor for se	ed bed prep. tilla	ide. seed
nd sprea		This section asso	intes tertilizer, s	eed, equipment		eu seu prep, une	ige, seea
	sh adapted perennial native warm season grasses. Used for either conventional	or no-till seeding o	of perennial nativ	/e warm seasor	grasses for pas	ture havland an	nd wildlife
	This practice may be utilized for organic or regular production. This scenario a						
			5 V			3 . 3	
666	Forest Stand Improvement				1		r -
2004092032	Pre-commercial Thinning - Hand tools 1/	Acre	\$90.23		\$108.28		
	Creating Patch Clearcuts 3/	Acre	\$145.03		\$174.03		
	Thinning for Wildlife and Forest Health at 60BA 2/ 3/	Acre	\$22.12		\$26.54		
	Thinning for Wildlife and Forest Health at 50BA 2/3/	Acre	\$29.18		\$35.02		2
	Thinning for Wildlife and Forest Health at 80BA 2/ 3/	Acre	\$14.52		\$17.42		
	Pre-Commercial thinning-mechanical 1/	Acre	\$45.46		\$54.56		
	Pre-Commercial thinning-mechanical 1/ Thinning for Wildlife Health at 70 BA 3/	Acre Acre	\$45.46 \$18.88		\$54.56 \$22.65		10 Years
	Thinning for Wildlife Health at 70 BA 3/	Acre	\$18.88	. Mechancial ec	\$22.65	utilized to treat p	
/ Adjustir		Acre	\$18.88	. Mechancial ec	\$22.65	utilized to treat p	
/ Adjustir ommercia	Thinning for Wildlife Health at 70 BA 3/ ng the stocking of a young, non-merchantable stand of trees. The operation is	Acre	\$18.88	. Mechancial ec	\$22.65	utilized to treat p	
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/ Adjustir ommercia / Used to / Applica y the GA	Thinning for Wildlife Health at 70 BA 3/ ng the stocking of a young, non-merchantable stand of trees. The operation is al forest stand. open the canopy of a stand to improve the wildlife habitat and tree health. able to Wildlife Landuse Only. This practice scenario is approved for use under Habitat Suitability Index model and comparisons with site appropriate Ecologic	Acre supervised by a reg r the Wildlife fund al Site Descriptions	\$18.88 gistered forester pool. This pract	tice will be imple le reference cor	\$22.65 uipment can be emented accordi ditions.Allowed	ng to habitat nee as a supporting	ore- eds identif
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Exclusion Op 1 113 133	Concrete with sand or gravel foundation 1/	Sq Ft	\$3.15		\$3.78		
Image: Neurosciency at the vertex of the second s	Steel Reinforced Concrete with sand or gravel foundation 2/	Sq Ft	\$5.74		\$6.88		
Imply velocity as Imply velocity veloci	Rock/Gravel on Geotextile 3/	Sq Ft	\$1.13		\$1.36		
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422 Hedgerow Planting It 5100 5120 423 Hedgerow Planting It 5100 5120 15 Years At stand with a minimum of nine wildflower species and one native warm season grass should be established. This will include a line and the standard stan							
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Perinter Habitat 1/							r
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Code	Conservation Practice	Payment Unit	Payment Rate	Maximum Amount	HU Payment Rate	HU Maximum Amount	Lifespar
449	Irrigation Water Management						
	Basic IWM 1/	Acre	\$10.72		\$12.87		
	Intermediate IWM 2/	Acre	\$19.48		\$23.37		
	Advanced IWM 3/	Acre	\$25.32		\$30.39		
	Soil Moisture Sensors 4/	Each	\$69.34		\$83.21]
	Soil Moisture Sensors with Data Recorder 5/	Each	\$285.47		\$342.56		1 year
	ensity irrigation water management system. Soil moisture measured by feel or oth opy of records to document practice completion; payment after receipt of 1 growing		32/02/24/20	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22.00	ns and rainfall. F	Producer m
to a con <u>his prac</u> High in sing tele ceipt of	n intensity irrigation water management system. Soil moisture is determined by so nputer program. Irrigation amounts determined by flow meters on system. Use in tice is for 1-year only). tensity irrigation water management system. Soil moisture determined by remote metry or mobile phone data system. Data is monitored daily and adjustments mad 1 growing season of data (This practice is for 1-year only).	conjunction with monitor soil moi- de accordingly.	Soil Moisture s sture sensors. Jse in conjunct	Sensors; paymen Automated loggi ion with Soil Moi	t after receipt o ng of soil moist sture Sensors v	If 1 growing seas ure data into com vith data logger; p	on of data nputer syste payment af
	lly read soil moisture sensors for use in the intermediate IWM scenario. Payment i ontract would be for 2 sensors.	s for each individ	lual sensor; the	refore, if custom	er installs a sha	llow sensor and	a deep
Soil Mo	isture Sensors with automated data logging system for use in the advanced IWM	scenario. Use or	ne set per irriga	tion managemen	t unit.		
460	Land Clearing						
400	Heavy Equipment	Acre	\$1,326.52		\$1,591.82		10 Years
or use w	ith Irrigation Reservoir only. NOT FOR GENERAL EQIP, ONLY FOR IRRIGATION P				- W1,001.02		
670	Lighting System Improvement						
	Lighting - CFL	Each	\$13.56	\$ 10,000.00	\$16.27	\$ 10,000.00	1
	Lighting - LED	Each	\$17.37		\$20.85		1
	Lighting - Linear Fluorescent	Each	\$255.04	\$ 10,000.00	\$306.05		1
	Lighting - Pulse-Start Metal Halide	Each	\$21.23		\$25.48	\$ 10,000.00	1
	Automatic Controller System	Each	\$202.34		\$242.81		10 vear
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	Conservation Practice	Payment Unit	Payment Rate	Maximum Amount	HU Payment Rate	HU Maximum Amount	Lifespa
590	Nutrient Management						
	Basic NM System 1/	Acre	\$5.54		\$6.65		
	Basic Organic NM System 3/	Acre	\$21.76		\$26.11		
	Basic NM system with manure 2/	Acre	\$8.82		\$10.58		
	Precision NM System 4/	Acre	\$19.08		\$22.90	4	1 Year
e planr	ed NM system will meet the current 590 standard. Records demonstrating imple	mentation of the	4 R's of the NM	criteria will be re	quired. Must al	so plant cover cro	op, CPS :
	p only applies to crop land, not applicable to hay and pasture land. Use the Geo ndations.	gia Phosphorous	Index when the	e planned rates o	f phosphorous	exceeds UGA	
ning of i comme The im	plementation of a basic nutrient management system where there is no manure a nutrients. Payment for implementation is to defray the costs of soil testing, analys ndations or crop removal rates and an associated nutrient budget, and recordkee plementation of a basic nutrient management system where there is manure or oper rate, source, method of placement, and timing of nutrients while minimizing o	sis, consultant ser ping. compost applicatio	vices that provi	de nutrient recon commercial ferti	nmendations ba	ased on LGU	on will re
fray the noval r The im	costs of soil testing, manure testing, analysis, proper implementation, consultan ates and an associated nutrient budget, and recordkeeping. plementation will result in the proper rate, source, method of placement, and timi	t services that pro	vide nutrient re ayment for impl	commendations ementation is to	based on LGU defray the costs	recommendation s of soil testing, n	s or crop nanure
ganic fe comme	mpost analysis, training attendance, consultant services that provide nutrient reco rtilizers, manure, and/or compost appropriately improving soil quality and minimiz ndations based on soil and manure analyses. plementation of a basic precision nutrient management system on cropland. Pay	ing runoff of nutri	ents from fields	to surface water	rs. The basis fo	or nutrient applica	tions will
ovide ni enario g ecision	prenentation of a basic precision handleft management system of copinal. Fag utrient recommendations based on LGU recommendations or crop removal rates goes beyond the basic NM system by using technologies that improve efficiency a nutrient mgmt techniques ensure that the right rate, proper timing, and proper pla to the crop where it is needed and not applying where it is not needed.	and an associate and effectiveness	d nutrient budg of nutrient man	et, recordkeeping agement by utiliz	g, and monitorir ing precision te	ng on a precision echniques and too	level. Ti bls.
	Dand Scaling or Lining Bortonita Scalant						
521C	Pond Sealing or Lining - Bentonite Sealant	1	parata press		2001 0 10 20 10 10 10 10		
	Bentonite Treatment - Covered	CuYd	\$62.16		\$74.59		15 Year
	Material Onsite 1/ Material Hauled 2/	CuYd CuYd	\$10.11 \$16.57		\$12.14 \$19.88		15 Year
	nt for installation of a compacted clay liner and protective cover using on site ma	tenais. volume is	sum or imer ar	to cover volume:	s. For waste st		
ly. Payme	nt for installation of a compacted clay liner and protective cover using imported r	naterials. Volume	e is sum of liner	and cover volum	nes. For waste		
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ly. Payme ly. 521B yment	nt for installation of a compacted clay liner and protective cover using imported r	CuYd	\$3.68		\$4.42	storage ponds a	nd lagoo 20 Year
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ractice Code	Conservation Practice	Payment Unit	Payment Rate	Maximum Amount	HU Payment Rate	HU Maximum Amount	Lifespa
533	Pumping Plant				1		
	Electric-Powered Pump ≤ 5 Hp 1/	BHP	\$664.00		\$796.81		
	Electric-Powered Pump ≤ 5 HP with Pressure Tank 2/	BHP	\$1,410.12		\$1,692.14		
	Electric-Powered Pump >5 HP<=30 hp 3/	BHP	\$402.30		\$482.76		
	Electric-Powered Pump <30 hp <=75 4/	BHP	\$281.03		\$337.23		2
	Electric-Powered Pump >75 5/	BHP BHP	\$158.65 \$174.95		\$190.38 \$209.94		
	Variable Frequency Drive 6/ Internal Combustion-Powered Pump ≤ 50HP 7/	BHP	\$534.39		\$641.27		6
	Internal Combustion-Powered Pump > 50 to 70 HP 7/	BHP	\$400.33		\$480.40		ġ.
	Internal Combustion-Powered Pump > 70 HP 7/	BHP	\$309.51		\$371.41		
	Photovoltaic-Powered Pump 8/	BHP	\$6,976.87		\$8,372.24		15 Years
ell pum ill be the	will be made for the pump size required by the design for the pump rounded to ps the size for payment will be determined by the watering facility design sprea e applicant's responsibity. for livestock water, waste transfer or irrigation.						
	in well for livestock water or irrigation with pressure tank added.						
' Pump	for livestock water, waste transfer or irrigation. Centrifugal Pump.						
Pump	for waste transfer or irrigation. Centrifugal Pump.						
/ Pump	for livestock or irrigation. Centrifugal Pump.						
Cost in	cludes VFD modifications only.						
/ Irrigatio	on and Ag Waste Transfer; Use only when not economically feasible to use	e electric motor/pun	p combination	IS.			
	l installation of photvoltaic cells to run solar pump (includes pump); Option or ty installation cost must exceed \$10,000.	nly when there is no	available powe	er source and i	not economica	to run power to	o site.
pplicab	le to Wildlife Landuse Only. Can be scheduled as a supporting practice in co	onjunction with Presc	ribed Grazing 5	28 when neede	d to protect wild	life or natural con	nmunities
329	Residue & Tillage Mgmt - Notill/Striptill Direct Seed		r i		1		-
	No-Till/Strip-Till	Acre	\$13.42		\$16.10		1 Year
mitod to	o 2 years. Financial Assistance applies to establishing the cash crop, not the c		ψ10.42		φ10.10		1 Teal
329	Residue & Tillage Mgmt - Notill/Striptill Direct Seed Basic	Acre	\$21.35		\$25.62		1 Year
643	Restoration and Mgt. of Rare and Declining Habitats						[
	Habitat Monitoring and Mgt, Low Intensity and Complexity	Acre	\$2.41		\$2.89		s 5
	Rare or Dec. Habitat Monitoring and Mgt, Medium Intensity 2/	Acre	\$8.95		\$10.74		
	Habitat Monitoring and Mgt, High Intensity and Complexity 2/	Acre	\$16.74		\$20.09		4
	Dev.of Shallow Micro-Topo Features with Normal Farm Equip 1/	Acre	\$28.87		\$34.64		
a second and	Dev.of Deep Micro-TopoFeatures with Heavy Equipment 1/	Acre	\$78.28		\$93.94		1 Year
cologica	able to Wildlife Landuse Only. Restore and manage according to habitat nee al Site Descriptions or other suitable reference conditions.			-			
	able to Wildlife Landuse Only. Requires a monitoring plan, an approved agri blicly available.	eement with the mon	itoring organizat	tion, and a sign	ed landowner re	lease agreeing th	at the da
391	Riparian Forest Buffer						
	Bare-root, hand planted 1/	Acre	\$193.40		\$232.08		
	Bare-root, machine planted 2/	Acre	\$210.96		\$253.15		15 Years
The bu	Iffer will be located adjacent to and up-gradient from a watercourse or water bo	ody extending a minir	num of 35 feet v	vide. The plant	ing will consist o	f hand planted b	are-root
	d trees. One third of the area will be planted to each woody plant type. Tree s			¢.	1.50	4	
	iffer will be located adjacent to and up-gradient from a watercourse or water bo			vide. The plant	ing will consist c	of machine plante	d bare-ro
irdwood	d trees. One third of the area will be planted to each woody plant type. Tree s	pacing will be 12' x 1	2'.				
558	Roof Runoff Structure				1		
	Roof Gutter, Small, 6 inches wide and smaller 1/	LnFt	\$4.31		\$5.17		
	Concrete Curb 2/	LnFt	\$8.02		\$9.62		2
	Trench Drain 3/	LnFt	\$7.61		\$9.13		
		and the second se	\$1.17		\$1.41		15 Years
	Roof Gutter with storage tank 4/	Gal					
Price	Roof Gutter with storage tank 4/	Gai					
202 22	Roof Gutter with storage tank 4/ of length of roof gutter.	JGai					
Price o	Roof Gutter with storage tank 4/ of length of roof gutter. of length of concrete curb.	Gai					
Price o Price o	Roof Gutter with storage tank 4/ of length of roof gutter.	•		tter.			

Code	Conservation Practice	Payment Unit	Payment Rate	Maximum Amount	HU Payment Rate	HU Maximum Amount	Lifespa
367	Roofs and Covers					-	
	Post Frame Building 1/	SqFt	\$6.42		\$7.70		
10.00	Steel Frame Building 2/	SqFt	\$5.27	5 ×	\$6.32	A	10 Years
	and roof system with concrete footers at support posts. Square footage is measu						5
	and roof system with concrete footers at support posts. Steel frame buildings mu d_post to post.	st be designed an	d installation ce	ertified by a regist	ered Georgia F	'E. Square foota	geis
798	Seasonal High Tunnel System						
	Seasonal High Tunnel System	SqFt	\$3.40	\$ 7,000.00	\$4.08	\$ 7,000.00	4 Years
	e based on purchase of manufactured kit and landowner installing the structure. S GANIC AND HIGH TUNNEL INITIATIVES.	Structure must be	nstalled to man	ufacturer's specif	fications. NOT	FOR GENERAL	EQIP, ON
381	Silvopasture						
	Commercial thinning and establishment of introduced grasses. 1/	Acre	\$231.76		\$278.11		1
	Tree Establishment 2/	Acre	\$80.90		\$95.80		20 Years
Comm	ercial thinning of an existing stand of trees followed by establishment of introduce			o a basal area of		includes grass e	
escue a	andhills, Coastal Plain, and Flatwoods Regions Bahiagrass is the recommended re the recommended forage species. Tall Fescue can be used as the chosen for t. tablishment of trees into an existing pasture where adequate native grasses or in	age species throu	ghout the Pied	nont, but Bahiag	rass is also acc	eptable in the lov	wer
0 X 1 Z .							
574	Spring Development						
	Spring Development 1/ 2/	Each	\$2,584.66		\$3,101.59		20 Years
Include	es collection system and spring box. Does not include livestock pipeline from spr	ing box to waterin	q facility.				
442	Sprinkler System						
	Contor Divist Custom 4(F 4	¢56.00		000 10		
	Center Pivot System 1/ Solid Set System 2/	Ft	\$56.80 \$3.611.96	\$ 25,000,00	\$68.16	\$ 25,000,00	
	Solid Set System 2/	Acre	\$3,611.96	\$ 25,000.00	\$4,334.35	\$ 25,000.00	
	Solid Set System 2/ Traveling Gun System 3/	Acre Each	\$3,611.96 \$34,762.34	\$ 25,000.00	\$4,334.35 \$41,714.81	\$ 25,000.00	
ater su	Solid Set System 2/	Acre	\$3,611.96	\$ 25,000.00	\$4,334.35	\$ 25,000.00	15 Years
g Wast Ag Wast creage i ose reel reshwa e and la the new ill be ba esigner	Solid Set System 2/ Traveling Gun System 3/ Retrofit of Existing Sprinkler System 4/ VRI_System_Renovation 5/ pply and conveyance from source to field is not addressed within this practice. ewater Notes: For Ag Wastewater the least cost system (center pivot, solid set is the Calculator" tab. Actual wastewater and soil samples are required to calculate is needed to apply yearly wastewater is 9.6 acres or less then a solid set system wo but payment will be based on the solid set system. Ag Wastewater application ter Notes: Irrigation Water Management, CPS 449 must be used in conjunce andowner is willing to install a new center pivot system, the calculated amount new w center pivot system. In addition, the old center pivot system being replaced will right on the cost of retrofitting the size pivot necessary for servicing the involved fir (CID), Georgia PE, or Area Engineer. CID designs must be reviewed by NR	Acre Each Ft Ft Ft system, or travelin acreage needed tr uld be the least or as will require a N tion with these p cessary to retrofit be destroyed. Cc eld. Must have a CS engineers (do	\$3,611.96 \$34,762.34 \$10.66 \$16.46 g gun system) i o apply yearly w ost system for the IMP. ractices. If a work the old center part inversion from part inversion from parts the old center parts inversion from parts the old center parts the old cente	will be selected b astewater prior to ne practice instea prking center pivo ivot system will b a traveler system n design comple e retrofits). Certii	\$4,334.35 \$41,714.81 \$12.79 \$19.75 ased on acres pringation desi d of a hose ree to system is det e provided to ti to a pivot will to a pivot will ted and certif fication must	figured in the Cor gn or payment. E el. The producer ermined to be pa he landowner to o e acceptable; co ied by a Certifie be provided that	st Estimat Example, i can instal offset the st-share ri d Irrigatio t system
g Wast og Wast creage i ose reel reshwa e and la the new ill be ba esignel as inst	Solid Set System 2/ Traveling Gun System 3/ Retrofit of Existing Sprinkler System 4/ VRI_System_Renovation 5/ pply and conveyance from source to field is not addressed within this practice. ewater Notes: For Ag Wastewater the least cost system (center pivot, solid set site Calculator" tab. Actual wastewater and soil samples are required to calculate in seeded to apply yearly wastewater is 9.6 acres or less then a solid set system wo but payment will be based on the solid set system. Ag Wastewater application ter Notes: Irrigation Water Management, CPS 449 must be used in conjunct andowner is willing to install a new center pivot system, the calculated amount new w center pivot system. In addition, the old center pivot system being replaced will used on the cost of retrofitting the size pivot necessary for servicing the involved fit	Acre Each Ft Ft Ft system, or travelin acreage needed tr uld be the least or is will require a N tion with these p cessary to retrofit be destroyed. Cestroyed. eld. Must have a CS engineers (do the installer (prov	\$3,611.96 \$34,762.34 \$10.66 \$16.46 g gun system) i o apply yearly w ost system for th IMP. ractices. If a wo the old center p inversion from a copy of system pes not include ided the landow	will be selected b astewater prior to ne practice instea prking center pivo ivot system will b a traveler system n design comple e retrofits). Certii vner is not the ins	\$4,334.35 \$41,714.81 \$12.79 \$19.75 ased on acres o irrigation desi d of a hose ree to system is det e provided to ti to a pivot will sted and certif fication must taller), the CID	figured in the Cor gn or payment. E ermined to be pa he landowner to c e acceptable; co ied by a Certifie be provided that or field office sta	st Estimat Example, can instal offset the st-share r d Irrigation
g Wast g Wast reage i bse reel eshwa e and la the new II be ba esignet <u>as inst</u> For Ag Include	Solid Set System 2/ Traveling Gun System 3/ Retrofit of Existing Sprinkler System 4/ VRI_System_Renovation 5/ pply and conveyance from source to field is not addressed within this practice. ewater Notes: For Ag Wastewater the least cost system (center pivot, solid set set te Calculator" tab. Actual wastewater and soil samples are required to calculate a needed to apply yearly wastewater is 9.6 acres or less then a solid set system wo but payment will be based on the solid set system. Ag Wastewater application ter Notes: Irrigation Water Management, CPS 449 must be used in conjunct andowner is willing to install a new center pivot system, the calculated amount new w center pivot system. In addition, the old center pivot system being replaced will used on the cost of retrofitting the size pivot necessary for servicing the involved fir (CID), Georgia PE, or Area Engineer. CID designs must be reviewed by NR alled in accordance with the certified design. Certification can be provided by Wastewater Only. Use for wastewater application. Waste water application acres es all components of solid set system and installation costs. Use for wastewater and provide set solid set system and installation costs. Use for wastewater application acres	Acre Each Ft Ft Ft system, or travelin acreage needed tr uld be the least or is will require a N tion with these p cessary to retrofit be destroyed. CC eld. Must have a CS engineers (do the installer (prov is based on Cost	\$3,611.96 \$34,762.34 \$10.66 \$16.46 g gun system) i o apply yearly w ost system for th IMP. ractices. If a wo the old center p inversion from c copy of system cosp of syste	will be selected bo astewater prior to ne practice instea prking center pivo ivot system will b t traveler system of design comple r retrofits). Certil vner is not the ins Vaste Calculator"	\$4,334.35 \$41,714.81 \$12.79 \$19.75 ased on acres o irrigation desi d of a hose rea t system is det e provided to ti to a pivot will sted and certif fication must taller), the CID tab for nitroge	figured in the Cos gn or payment. I el. The producer ermined to be pa he landowner to o e acceptable; co ied by a Certifie be provided that or field office sta n.	st Estima Example, can insta offset the st-share r d Irrigati t system ff.
g Wast speage i bese reel reshwa e and la the new ill be ba esignet as inst For Ag Include r nitrog	Solid Set System 2/ Traveling Gun System 3/ Retrofit of Existing Sprinkler System 4/ VRI_System_Renovation 5/ pply and conveyance from source to field is not addressed within this practice. ewater Notes: For Ag Wastewater the least cost system (center pivot, solid set set te Calculator" tab. Actual wastewater and soil samples are required to calculate a needed to apply yearly wastewater is 9.6 acres or less then a solid set system wo but payment will be based on the solid set system. Ag Wastewater application ter Notes: Irrigation Water Management, CPS 449 must be used in conjunct andowner is willing to install a new center pivot system, the calculated amount new w center pivot system. In addition, the old center pivot system being replaced will used on the cost of retrofitting the size pivot necessary for servicing the involved fir (CID), Georgia PE, or Area Engineer. CID designs must be reviewed by NR alled in accordance with the certified design. Certification can be provided by Wastewater Only. Use for wastewater application. Waste water application acres as all components of solid set system and installation costs. Use for wastewater is en. Use for freshwater for historically underserved clients.	Acre Each Ft Ft Ft system, or travelin acreage needed to uld be the least co is will require a N tion with these p cessary to retrofit be destroyed. Cc eld. Must have a CS engineers (do the installer (prov- is based on Cost application. Waste	\$3,611.96 \$34,762.34 \$10.66 \$16.46 g gun system) 1 o apply yearly w ost system for th IMP. ractices. If a we the old center p inversion from a copy of system ided the landow Estimator "Ag V water application	will be selected b astewater prior to re practice instea orking center pivo ivot system will b a traveler system n design comple e retrofits). Certii vner is not the ins Vaste Calculator" ion acres based o	\$4,334.35 \$41,714.81 \$12.79 \$19.75 ased on acres o irrigation desi d of a hose rea t system is det e provided to ti to a pivot will b eted and certif fication must taller), the CID tab for nitroge on Cost Estima	figured in the Co gn or payment. I I. The producer ermined to be pa he landowner to o the acceptable; co led by a Certifie be provided that or field office sta n. tor "Ag Waste Ca	st Estimat Example, can insta offset the st-share r d Irrigatio t system iff.
g Wast Ag Wast creage i ose reel reshwa e and la f the new ill be ba esignet as inst f For Ag f Include r nitrog f For Ag f Payme ther wo	Solid Set System 2/ Traveling Gun System 3/ Retrofit of Existing Sprinkler System 4/ VRI_System_Renovation 5/ pply and conveyance from source to field is not addressed within this practice. ewater Notes: For Ag Wastewater the least cost system (center pivot, solid set is the Calculator" tab. Actual wastewater and soil samples are required to calculate is needed to apply yearly wastewater is 9.6 acres or less then a solid set system wo but payment will be based on the solid set system. Ag Wastewater application ter Notes: Irrigation Water Management, CPS 449 must be used in conjunce undowner is willing to install a new center pivot system, the calculated amount new w center pivot system. In addition, the old center pivot system being replaced will rigcID, Georgia PE, or Area Engineer. CID designs must be reviewed by NR alled in accordance with the certified design. Certification can be provided by (Wastewater Only. Use for wastewater application. Waste water application acres as all components of solid set system and installation costs. Use for wastewater is must for fireshwater for historically underserved clients. Wastewater Only. Use for wastewater application. Waste water application acres is all components of solid set system and installation costs. Use for wastewater is must be reviewed by. Use for wastewater application waste water application acres is all components of solid set system and installation costs. Use for wastewater is wastewater Only. Use for wastewater application. Waste water application acres is not rate covers all materials and labor for completing the retrofit in accordance with bblers, orbitors or rotator sprinklers.	Acre Each Ft Ft Ft System, or travelin acreage needed tr uld be the least or is will require a N tion with these p cessary to retrofit be destroyed. Co eld. Must have a CS engineers (do the installer (prov is based on Cost application. Waste is based on Cost is based on Cost	\$3,611.96 \$34,762.34 \$10.66 \$16.46 g gun system) 1 o apply yearly w ost system for the IMP. ractices. If a work the old center point inversion from a copy of system ost included ided the landow Estimator "Ag V water application Estimator "Ag V gn. Pressure r	will be selected bi astewater prior to the practice instea prking center pivo ivot system will b t traveler system of design comple pretrofits). Certif vner is not the ins Vaste Calculator" ion acres based of Vaste Calculator	\$4,334.35 \$41,714.81 \$12.79 \$19.75 ased on acres o irrigation desi d of a hose rea t system is det e provided to ti to a pivot will b sted and certif fication must taller), the CID tab for nitroge on Cost Estima tab for nitroge uired at each s	figured in the Cos gn or payment. I el. The producer ermined to be pa he landowner to d e acceptable; co ied by a Certifie be provided that or field office sta n. tor "Ag Waste Ca n. prinkler. Drop no	st Estimat Example, can instal offset the st-share r d Irrigati t system Iff.
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Practice Code	Conservation Practice	Payment Unit	Payment Rate	Maximum Amount	HU Payment Rate	HU Maximum Amount	Lifespan
578	Stream Crossing						1
	Rock armored low water crossing 1/	SqFt	\$4.16		\$4.99		ć
	Concrete low water crossing	SqFt	\$5.63		\$6.75		6
	Culvert installation 2/	LnFt	\$2.52		\$3.03		
	Low water crossing using prefabricated products 3/	SqFt	\$5.08		\$6.10		10 Years
	d critical area planting and mulch. May be used in WRP/ACEP-WRE and liv State Forester and State Engineer	vestock systems (livestock must	be fenced out	of creeks). If n	eeded in a fores	try system
	es stream crossing with any rock surface (GAB, surge stone, riprap). Price inlcu	ides all surfacing m	aterials, geotext	tile and installati	ion.		
2/ Paid b	y inches of culvert diameter multiplied by culvert length. Must add HUA; Pipe m	ust be designed to	accommodate f	ish passage.			
Applicab Managen Managen with Aqua	Ill filled with gravel, articulated concrete, pavers, or concrete block. ole to Wildlife Landuse Only. Allowed when planned for a wildlife habitat purpt nent of Rare or Declining Habitats (643), Stream Habitat Improvement (395), Up nent (644) ONLY IF a stream crossing is required to carry out wildlife managem atic Organism Passage. This practice will not disturb high quality, natural habitat t and/or engineer to schedule these scenarios for wildlife land use.	bland Wildlife Habita ent activities. Use o	at Management of this practice m	(645), Wetland hust be justified	Restoration (65 in the conservat	7), or Wetland W ion plan. Plan in r	ildlife Habit conjunction
395	Stream Habitat Improvement and Management						×
000	Riparian Zone Improvement-Forested	Acre	\$6,518.66		\$7,822.39		
	Instream wood placement	Acre	\$10,951.75		\$13,142.10		
	Instream wood placement	Acre	\$9,685.06		\$13,142.10		
	Rock and wood structures	Acre	\$20,379.22		\$24,455.07		1 1 1
	Fish Barrier	CuYd	\$4,364.96		\$5,237.95		5 Years
Applicab	to Wildlife Landuse Only. Must receive prior approval from the State Biolog			se scenarios M		a to habitat needs	
	m Visual Assessment Protocol 2 and comparisons with site appropriate Ecolog					g to habitat hood	raemanea
Applicab	ele to Wildlife Landuse Only. Landowner must secure required CWA and other	r necessary permits					
580	Streambank and Shoreline Protection		1		1	°	1
580	Shaping 1/	LnFt	\$14.34		\$17.21		
	Bioengineered 2/	LnFt	\$49.23		\$59.08		
	Structural 3/	LnFt	\$120.96		\$145.15	-	5
	Toe Protection 4/	LnFt	\$74.82		\$89,79		20 Years
00 feet	annah District of the Corp of Engineers has put a regional restriction on Na or greater, the landowner must submit a PCN. es shaping bank and erosion control fabric. Add critical area planting and mulch	10 Vc	3. If you are st	tabilizing a stre	eambank on a p	erennial stream	and it is
2/ Include	es shaping bank, livestake, rootwads and revetments. Add critical area planting	and mulch as need	ded.				
2/ Include 3/ Include	es shaping bank, livestake, rootwads and revetments. Add critical area planting es shaping bank and installing riprap. Add critical area planting and mulch as ne	and mulch as need eded.	ded.				
2/ Include 3/ Include 4/ Type I Applicab Rare or E	es shaping bank, livestake, rootwads and revetments. Add critical area planting	and mulch as need eded. stabilization. pose in conjunction	with Timber Sta				
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Practice Code	Conservation Practice	Payment Unit	Payment Rate	Maximum Amount	HU Payment Rate	HU Maximum Amount	Lifespan
612	Tree/Shrub Establishment		P				-
	Medium Density-hand plant Conifer B.R. 9/ 12/	Acre	\$95.03	\$ 20,000.00	\$114.04	\$ 20.000.00	
	Medium Density-Mech Plant Conifer 10/ 13/	Acre	\$96.12		\$115.34		
	Medium Density-hand plant Conifer 8/	Acre	\$156.27	\$ 20,000.00	\$187.53		
	Low Density-hand plant Containerized 7/	Acre	\$133.20	\$ 20,000.00	\$159.84	\$ 20,000.00	
	High Density mech conifer planting 3/	Acre	\$146.70	\$ 20,000.00	\$176.04	\$ 20,000.00	
	High Density-hand plant Conifer 4/	Acre	\$204.16	\$ 20,000.00	\$245.00	\$ 20,000.00	
	Hardwood Hand Planting-bare 1/	Acre	\$158.12	\$ 20,000.00	\$189.75	\$ 20.000.00	
	Hardwood Hand Planting-bare root-protected 2/	Acre	\$257.01		\$308.41		
	Ohmik Diantin a 6/	Acre	\$107.20	\$ 20,000.00	¢100.01	\$ 20.000.00	
	Shrub Planting 6/ Hardwoods Tree Planting and Shrubs Hand Planting 2-3 gallon plants protected 11/	Acre		\$ 20,000.00	\$128.64 \$548.23	\$ 20,000.00 \$ 20,000.00	15 Years
1/Hardw	ood seedlings will be planted at minimum of 12X12 spacing at 300 trees per acre.	and the second se	the second s				
nanagen	nent plan is required prior to payment.		10	÷ 5			
	ood seedlings will be planted at minimum of 12X12 spacing by hand method at 300 and planted. A Forest management plan is required prior to payment.	trees per acre v	with protected t	ree tubes. ALL fo	prestry acres a	e eligible for payr	nent. Sites
3/ Longle	af pines will be planted by mechancial method. ALL forestry acres are eligible for p 6X12 spacing.	lanting. A Fores	t Management	plan is required	orior to paymer	t. A minimum of	305 trees pe
be hand j	af Pines will be planted at 6X12 spacing at 605 trees per acre. ALL forestry acres planted. Plant containerized longleaf pines seedling only.			1	2	8 8 8	
ree shelt	able to Forestry Landuse Only. Shrubs will be planted on a 20 X 30 spacing of 1- ter or tree tube. A Forest Management plan is required prior to payment. able to Wildlife Landuse Only. 396 containerized trees per acre hand planted	3 gallon shrubs	plants for wildli	te in forest openi	ngs. Each shru	b plant will be pro	tected with
	able to Wildlife Landuse Only. 454 containerized trees per acre hand planted						
9/ Applic	able to Wildlife Landuse Only. 454 bareroot trees per acre hand planted						
	icable to Wildlife Landuse Only. 454 bareroot trees per acre mechanically planted icable to Wildlife Landuse Only. In one acre openings, hand plant 20 trees (hard)		or transplant, po	otted or B&B 2-3g	jal.) per acre a	nd 20 shrubs (see	dling or
ransplan 2 /Conif	it, potted or B&B 2-3 gal.) per acre iers (loblolly or slash) will be planted by hand method. ALL forestry acres are eligit acre at a 8X10 spacing.	le for planting	A Forest Mana	gement plan is re	quired prior to	oayment. A minin	um of 545
ransplan 2 /Conif rees per 3 /Conif ninimum	ers (loblolly or slash) will be planted by hand method. ALL forestry acres are eligit acre at a 8X10 spacing. ers (loblolly or slash containerized) will be planted by machine method. ALL fores of 545 trees per acre at a 8X10 spacing.						
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2/ Single Wall Includes pipe, earthwork, and riprap outlet basin. Must add critical area planting and mulch.

	Conservation Practice	Payment Unit	Payment Rate	Maximum Amount	HU Payment Rate	HU Maximum Amount	Lifespan
645	Upland Wildlife Habitat Management						
	Habitat Monitoring and Mgt, Very-Low Intensity and Complexity	Acre	\$0.71		\$0.86		
	Habitat Monitoring and Mgt, Low Intensity and Complexity	Acre	\$2.41		\$2.89		
	Habitat Monitoring and Mgt, Medium Intensity and Complexity 2/	Acre	\$8.95		\$10.74		
		Acre	\$21.75		\$26.09		
	Habitat Monitoring and Mgt, High Intensity and Complexity 2/ Development of Shallow Micro-Topographic Features with Normal Farming Equipment. 1/	Acre	\$28.87		\$34.64		
	Development of Deep Micro-Topographic Features with Heavy Equipment. 1/	Acre	\$78.28		\$93.94		
	Establishment of seasonal forage or cover for wildlife on non-cropland.	Acre	\$123.41		\$148.09		1 Year
	able to Wildlife Landuse Only. Manage according to habitat needs identified by th	e GA Habitat S	uitability Index r	nodel and comp	arisons with site	e appropriate Eco	logical Site
/ Applica	ns or other suitable reference conditions. able to Wildlife Landuse Only. Requires a monitoring plan, an approved agreeme plicly available.	nt with the mon	itoring organiza	tion, and a sign	ed landowner rel	lease agreeing th	nat the data
		-		_		*	
360	Waste Facility Closure						
	Liquid Waste Impoundment Closure with fill 1/	CuFt	\$0.30		\$0.36		
	Liquid Waste Impoundment Closure with no liquid/slurry 2/	CuYd	\$2.96		\$3.55		20 Years
Contract '	or one item only, not both.		4.413 a				
roducer	must provide Notice of Termination to State Agency for state permitted sites er conversion.	along with ce	tification that	the closure wa	is completed to	NRCS Stds. N	ot for
leed to a	the cost of pumping or hauling sludge and disposing of the wastes in accordance v dd critical area planting and mulch (if needed).				g the holding po	ond with compact	ed earth fill
/ Covers	the cost of backfilling holding pond with compacted earth fill. Need to add critical a	rea planting and	d mulch (if need	led).			
632	Waste Separation Facility		İ		1		
	Mechanical Separation Facility 1/	Each	\$25,839.98		\$31,007.97		
	Concrete Seperator 2/	CuFt	\$4.05		\$4.86		
	Concrete Sand Settling Lane 3/	SqFt	\$4.82		\$5.78		15 Years
/ include	s grading and concrete placement. Must add critical area planting and mulch as ne	eded.					
313	s grading and concrete placement. Must add critical area planting and mulch as ne Waste Storage Facility	eded.					
		CuFt	\$0.23		\$0.27		-
	Waste Storage Facility		\$0.23 \$4.47		\$0.27 \$5.37		-
	Waste Storage Facility Earthen Storage Facility 1/	CuFt					
313	Waste Storage Facility Earthen Storage Facility 1/ Dry Stack, concrete floor, wood wall 2/ Conc Tank, Buried 3/ Dry Stack, concrete floor, concrete wall 4/	CuFt SqFt	\$4.47		\$5.37		15 Years
313 Jutrient I	Waste Storage Facility Earthen Storage Facility 1/ Dry Stack, concrete floor, wood wall 2/ Conc Tank, Buried 3/	CuFt SqFt CuFt SqFt	\$4.47 \$1.72 \$5.59	surface. Pay vo	\$5.37 \$2.06 \$6.70	llclude freeboard	
313 Iutrient I / Payme iccumula	Waste Storage Facility Earthen Storage Facility 1/ Dry Stack, concrete floor, wood wall 2/ Conc Tank, Buried 3/ Dry Stack, concrete floor, concrete wall 4/ Management Plan required with this practice. It based on designed storage volume to include manure, wastewater and rainfall of	CuFt SqFt CuFt SqFt n contributing a	\$4.47 \$1.72 \$5.59 reas and pond s		\$5.37 \$2.06 \$6.70	niclude freeboard	
313 Iutrient I / Payme iccumula // Must ac	Waste Storage Facility Earthen Storage Facility 1/ Dry Stack, concrete floor, wood wall 2/ Conc Tank, Buried 3/ Dry Stack, concrete floor, concrete wall 4/ Management Plan required with this practice. It based on designed storage volume to include manure, wastewater and rainfall on tion volume. Id critical area planting, mulch, roof and HUA for entrance pad. Size based on conc id critical area planting and mulch.	CuFt SqFt CuFt SqFt sqFt n contributing a	\$4.47 \$1.72 \$5.59 reas and pond rom post to pos	t.	\$5.37 \$2.06 \$6.70		or sludge
313 Iutrient I / Payme ccumula / Must ac / Must ac / Must ac	Waste Storage Facility Earthen Storage Facility 1/ Dry Stack, concrete floor, wood wall 2/ Conc Tank, Buried 3/ Dry Stack, concrete floor, concrete wall 4/ Management Plan required with this practice. It based on designed storage volume to include manure, wastewater and rainfall or tion volume. Id critical area planting, mulch, roof and HUA for entrance pad. Size based on conc	CuFt SqFt CuFt SqFt sqFt n contributing a	\$4.47 \$1.72 \$5.59 reas and pond rom post to pos	t.	\$5.37 \$2.06 \$6.70		or sludge
313 utrient I / Payme ccumula / Must ad / Must ad ke dairy	Waste Storage Facility Earthen Storage Facility 1/ Dry Stack, concrete floor, wood wall 2/ Conc Tank, Buried 3/ Dry Stack, concrete floor, concrete wall 4/ Wanagement Plan required with this practice. In based on designed storage volume to include manure, wastewater and rainfall or tion volume. dd critical area planting, mulch, roof and HUA for entrance pad. Size based on conc dd critical area planting, mulch, roof and HUA for entrance pad. Size based on conc dd critical area planting, mulch, roof and HUA for entrance pad. Size based on conc manure, layer litter, etc.	CuFt SqFt CuFt SqFt sqFt n contributing a	\$4.47 \$1.72 \$5.59 reas and pond rom post to pos	t.	\$5.37 \$2.06 \$6.70		or sludge
313 Iutrient I / Payme accumula // Must ac // Must ac	Waste Storage Facility Earthen Storage Facility 1/ Dry Stack, concrete floor, wood wall 2/ Conc Tank, Buried 3/ Dry Stack, concrete floor, concrete wall 4/ Wanagement Plan required with this practice. nt based on designed storage volume to include manure, wastewater and rainfall or titcal area planting, mulch, roof and HUA for entrance pad. Size based on conc d critical area planting, mulch, roof and HUA for entrance pad. Size based on conc wanure, layer litter, etc. Waste Transfer	CuFt SqFt CuFt SqFt n contributing a crete pad area f	\$4.47 \$1.72 \$5.59 reas and pond rom post to pos	t.	\$5.37 \$2.06 \$6.70 lume does not in		or sludge
313 Iutrient I / Payme ccumula / Must ac / Must ac / Must ac ke dairy	Waste Storage Facility Earthen Storage Facility 1/ Dry Stack, concrete floor, wood wall 2/ Conc Tank, Buried 3/ Dry Stack, concrete floor, concrete wall 4/ Management Plan required with this practice. nt based on designed storage volume to include manure, wastewater and rainfall or tion volume. dd critical area planting, mulch, roof and HUA for entrance pad. Size based on conc dd critical area planting, mulch, roof and HUA for entrance pad. Size based on conc manure, layer litter, etc. Waste Transfer Concrete Channel 1/	CuFt SqFt CuFt SqFt n contributing a crete pad area f	\$4.47 \$1.72 \$5.59 reas and pond rom post to pos rom post to pos	t.	\$5.37 \$2.06 \$6.70 lume does not in ls are to be used \$10.54		or sludge
313 Iutrient I / Payme ccumula / Must ac / Must ac / Must ac ke dairy	Waste Storage Facility Earthen Storage Facility 1/ Dry Stack, concrete floor, wood wall 2/ Conc Tank, Buried 3/ Dry Stack, concrete floor, concrete wall 4/ Management Plan required with this practice. nt based on designed storage volume to include manure, wastewater and rainfall or tion volume. d critical area planting, mulch, roof and HUA for entrance pad. Size based on concerded critical area planting, mulch, roof and HUA for entrance pad. Size based on concerded critical area planting, mulch, roof and HUA for entrance pad. Size based on concerded critical area planting, mulch, roof and HUA for entrance pad. Size based on concerded critical area planting, mulch, roof and HUA for entrance pad. Size based on concerded critical area planting and mulch. Vaste Transfer Concrete Channel 1/ Manure Flush System of transfer through a collection basin 2/	CuFt SqFt CuFt SqFt n contributing a crete pad area f crete pad area f SqFt Gal	\$4.47 \$1.72 \$5.59 reas and pond s rom post to pos rom post to pos rom post to pos \$8.79 \$1.89	t.	\$5.37 \$2.06 \$6.70 lume does not in ls are to be used \$10.54 \$2.27		or sludge e manures
313 / Payme ccumula / Must ac / Must ac / Must ac ke dairy 634	Waste Storage Facility Earthen Storage Facility 1/ Dry Stack, concrete floor, wood wall 2/ Conc Tank, Buried 3/ Dry Stack, concrete floor, concrete wall 4/ Management Plan required with this practice. nt based on designed storage volume to include manure, wastewater and rainfall or tion volume. dd critical area planting, mulch, roof and HUA for entrance pad. Size based on conc dd critical area planting, mulch, roof and HUA for entrance pad. Size based on conc manure, layer litter, etc. Waste Transfer Concrete Channel 1/	CuFt SqFt CuFt SqFt n contributing a crete pad area f	\$4.47 \$1.72 \$5.59 reas and pond rom post to pos rom post to pos	t.	\$5.37 \$2.06 \$6.70 lume does not in ls are to be used \$10.54		or sludge
313 / Payme ccumula / Must ac / Must ac / Must ac / Must ac / G34 / Cost of	Waste Storage Facility Earthen Storage Facility 1/ Dry Stack, concrete floor, wood wall 2/ Conc Tank, Buried 3/ Dry Stack, concrete floor, concrete wall 4/ Management Plan required with this practice. It based on designed storage volume to include manure, wastewater and rainfall or it oritical area planting, mulch, roof and HUA for entrance pad. Size based on concord d critical area planting, mulch, roof and HUA for entrance pad. Size based on concord and critical area planting, mulch, roof and HUA for entrance pad. Size based on concord manure, layer litter, etc. Waste Transfer Concrete Channel 1/ Manure Flush System of transfer through a collection basin 2/ Waste Transfer Pipeline 3/	CuFt SqFt CuFt SqFt n contributing a crete pad area f crete pad area f SqFt Gal	\$4.47 \$1.72 \$5.59 reas and pond s rom post to pos rom post to pos rom post to pos \$8.79 \$1.89	t.	\$5.37 \$2.06 \$6.70 lume does not in ls are to be used \$10.54 \$2.27		or sludge
313 / Payme ccumula / Must ac / Must ac / Must ac / Must ac / Gost of / Cost of / Flush T	Waste Storage Facility Earthen Storage Facility 1/ Dry Stack, concrete floor, wood wall 2/ Conc Tank, Buried 3/ Dry Stack, concrete floor, concrete wall 4/ Management Plan required with this practice. It based on designed storage volume to include manure, wastewater and rainfall or tion volume. Id critical area planting, mulch, roof and HUA for entrance pad. Size based on concord critical area planting, mulch, roof and HUA for entrance pad. Size based on concord annure, layer litter, etc. Waste Transfer Concrete Channel 1/ Manure Flush System of transfer through a collection basin 2/ Waste Transfer Pipeline 3/ concrete channel paid by sf of channel bottom.	CuFt SqFt CuFt SqFt n contributing a crete pad area f crete pad area f SqFt Gal	\$4.47 \$1.72 \$5.59 reas and pond s rom post to pos rom post to pos rom post to pos \$8.79 \$1.89	t.	\$5.37 \$2.06 \$6.70 lume does not in ls are to be used \$10.54 \$2.27		or sludge
313 / Payme ccumula / Must ac / Must ac / Must ac / Must ac / Gat 634 / Cost of / Flush T	Waste Storage Facility Earthen Storage Facility 1/ Dry Stack, concrete floor, wood wall 2/ Conc Tank, Buried 3/ Dry Stack, concrete floor, concrete wall 4/ Management Plan required with this practice. It based on designed storage volume to include manure, wastewater and rainfall or tion volume. Id critical area planting, mulch, roof and HUA for entrance pad. Size based on conc Id critical area planting, mulch, roof and HUA for entrance pad. Size based on conc Id critical area planting, mulch, roof and HUA for entrance pad. Size based on conc Id critical area planting, mulch, roof and HUA for entrance pad. Size based on conc manure, layer litter, etc. Waste Transfer Concrete Channel 1/ Manure Flush System of transfer through a collection basin 2/ Waste Transfer Pipeline 3/ concrete channel paid by sf of channel bottom. anks; includes cost of concrete pad for flush tank	CuFt SqFt CuFt SqFt n contributing a crete pad area f crete pad area f SqFt Gal	\$4.47 \$1.72 \$5.59 reas and pond s rom post to pos rom post to pos rom post to pos \$8.79 \$1.89	t.	\$5.37 \$2.06 \$6.70 lume does not in ls are to be used \$10.54 \$2.27		or sludge
313 Nutrient I / Payme iccumula 2/ Must ac 3/ Must ac ike dairy 634 / Cost of 2/ Flush T 3/ For was	Waste Storage Facility Earthen Storage Facility 1/ Dry Stack, concrete floor, wood wall 2/ Conc Tank, Buried 3/ Dry Stack, concrete floor, concrete wall 4/ Wanagement Plan required with this practice. Int based on designed storage volume to include manure, wastewater and rainfall or titcal area planting, mulch, roof and HUA for entrance pad. Size based on concerted critical area planting, mulch, roof and HUA for entrance pad. Size based on concerted critical area planting, mulch, roof and HUA for entrance pad. Size based on concerted critical area planting, mulch, roof and HUA for entrance pad. Size based on concerte critical, etc. Waste Transfer Concrete Channel 1/ Manure Flush System of transfer through a collection basin 2/ Waste Transfer Pipeline 3/ concrete channel paid by sf of channel bottom. anks; includes cost of concrete pad for flush tank ste transfer from a production area to a storage or treatment facility.	CuFt SqFt CuFt SqFt n contributing a crete pad area f crete pad area f SqFt Gal	\$4.47 \$1.72 \$5.59 reas and pond s rom post to pos rom post to pos rom post to pos \$8.79 \$1.89	t.	\$5.37 \$2.06 \$6.70 lume does not in ls are to be used \$10.54 \$2.27		or sludge e manures
313 Jutrient I / Payme (ccumula / Must ac / Must ac / Must ac / Must ac / Solution 634 / Cost of / For wat 359 Jutrient I	Waste Storage Facility Earthen Storage Facility 1/ Dry Stack, concrete floor, wood wall 2/ Conc Tank, Buried 3/ Dry Stack, concrete floor, concrete wall 4/ Wanagement Plan required with this practice. Int based on designed storage volume to include manure, wastewater and rainfall or ticn volume. dd critical area planting, mulch, roof and HUA for entrance pad. Size based on concerded critical area planting, mulch, roof and HUA for entrance pad. Size based on concerded critical area planting, mulch, roof and HUA for entrance pad. Size based on concerded critical area planting, mulch, roof and HUA for entrance pad. Size based on concerded critical area planting of transfer through a collection basin 2/ Waste Transfer Concrete Channel 1/ Manure Flush System of transfer through a collection basin 2/ Waste Transfer Pipeline 3/ concrete channel paid by sf of channel bottom. anks; includes cost of concrete pad for flush tank ste transfer from a production area to a storage or treatment facility. Waste Treatment Lagoon	CuFt SqFt CuFt SqFt n contributing a crete pad area f crete pad area f SqFt Gal LB	\$4.47 \$1.72 \$5.59 reas and pond s rom post to pos rom post to pos \$8.79 \$1.89 \$1.89 \$2.43	t. Concrete wal	\$5.37 \$2.06 \$6.70 lume does not in ls are to be used \$10.54 \$2.27 \$2.91 \$2.91	d for high moistur	or sludge e manures 15 Years
313 Nutrient I / Payme tocumula / Must ac / Must ac / Must ac / Must ac / Cost of 2/ Flush T 3/ For was 359 Nutrient I	Waste Storage Facility Earthen Storage Facility 1/ Dry Stack, concrete floor, wood wall 2/ Conc Tank, Buried 3/ Dry Stack, concrete floor, concrete wall 4/ Management Plan required with this practice. nt based on designed storage volume to include manure, wastewater and rainfall or tion volume. d critical area planting, mulch, roof and HUA for entrance pad. Size based on concrede critical area planting, mulch, roof and HUA for entrance pad. Size based on concrede critical area planting, mulch, roof and HUA for entrance pad. Size based on concrede critical area planting, mulch, roof and HUA for entrance pad. Size based on concrede critical area planting of transfer through a collection basin 2/ Waste Transfer Concrete Channel 1/ Manure Flush System of transfer through a collection basin 2/ Waste Transfer Pipeline 3/ concrete channel paid by sf of channel bottom. anks; Includes cost of concrete pad for flush tank ste transfer from a production area to a storage or treatment facility. Waste Treatment Lagoon Waste Treatment Lagoon Waste Treatment Lagoon	CuFt SqFt CuFt SqFt n contributing a crete pad area f crete pad area f SqFt Gal LB	\$4.47 \$1.72 \$5.59 reas and pond s rom post to pos rom post to pos \$8.79 \$1.89 \$1.89 \$2.43	t. Concrete wal	\$5.37 \$2.06 \$6.70 lume does not in ls are to be used \$10.54 \$2.27 \$2.91 \$2.91	d for high moistur	or sludge e manures 15 Years
313 Nutrient I / Payme tocumula / Must ac / Must ac / Must ac / Must ac / Cost of 2/ Flush T 3/ For was 359 Nutrient I	Waste Storage Facility Earthen Storage Facility 1/ Dry Stack, concrete floor, wood wall 2/ Conc Tank, Buried 3/ Dry Stack, concrete floor, concrete wall 4/ Management Plan required with this practice. nt based on designed storage volume to include manure, wastewater and rainfall or tion volume. d critical area planting, mulch, roof and HUA for entrance pad. Size based on concrede critical area planting, mulch, roof and HUA for entrance pad. Size based on concrede critical area planting, mulch, roof and HUA for entrance pad. Size based on concrede critical area planting, mulch, roof and HUA for entrance pad. Size based on concrede critical area planting of transfer through a collection basin 2/ Waste Transfer Concrete Channel 1/ Manure Flush System of transfer through a collection basin 2/ Waste Transfer Pipeline 3/ concrete channel paid by sf of channel bottom. anks; Includes cost of concrete pad for flush tank ste transfer from a production area to a storage or treatment facility. Waste Treatment Lagoon Waste Treatment Lagoon Waste Treatment Lagoon	CuFt SqFt CuFt SqFt n contributing a crete pad area f crete pad area f SqFt Gal LB	\$4.47 \$1.72 \$5.59 reas and pond s rom post to pos rom post to pos \$8.79 \$1.89 \$1.89 \$2.43	t. Concrete wal	\$5.37 \$2.06 \$6.70 lume does not in ls are to be used \$10.54 \$2.27 \$2.91 \$2.91	d for high moistur	or sludge e manures 15 Years

	Conservation Practice	Payment Unit	Payment Rate	Maximum Amount	HU Payment Rate	HU Maximum Amount	Lifespa
			ľ		1		ľ
642	Water Well						9
2	Typical Well 1/	Each	\$4,464.96		\$5,357.96		
r	Deep Well 2/	Each	\$6,686.42		\$8,023.70		20 Years
art of a po ut only w ompanion Water su	well/water source is adequate for livestock water need, a new well is not justified. rescribed grazing system or where livestock exclusion has removed a wate rhen existing well/water source is inadequate to supply irrigation water need n practice. urface 100 to 600 feet below ground surface. Complete well installation (casing, s urface > 600 ft. below ground surface. Complete well installation (casing, screen,	r supply. Wells Is. Does not inc creen, seal, filte	may be used fo lude the cost o r pack, concrete	or irrigation on If the pump so pad at well hea	ly for historical include CPS 5	lly underserved	applican
Water st	anace > 000 it. below glound sanace. Complete weir installation (casing, screen,	seal, inter pack,	concrete pad at	weil nead).			
614	Watering Facility						
12	Less than 100 gal 1/	Each	\$74.73		\$89.67		1
	100-200 gal 2/	Each	\$196.35		\$235.63		1
	201-400 gal 3/	Each	\$234.54		\$281.45		1
	401-600 gal 4/	Each	\$377.35		\$452.82		1
	Greater Than 600 gal 5/	Each	\$527.56		\$633.07	5. 	
	2 Ball Freeze proof 6/	Each	\$791.23		\$949.48		1
	4 Ball Freeze proof 6/	Each	\$958.11		\$1,149.74		
	Storage Tank for Solar Systems 7/	Gal	\$0.79		\$0.95		10 Year
Large tro Extra-La	trough; includes installation. ough; includes installation. Irge trough; includes installation. : trough and installation.						
Includes	tank, concrete pad, and installation.						
657	Wetland Restoration						1
	Disaster Laure Democrat and Electroletic Features		011.05		6000.00		
	Riverine Levee Removal and Floodplain Features	Acre	\$244.35		\$293.22		2
	Ditch Plug	CuYd	\$10.40		\$12.48		
	Estuarine Fringe Levee Removal	Acre	\$12.04		\$14.45		
r	Riverine Channel and Floodplain Restoration	Acre	\$331.91		\$398.29		15 Year
P	e to Wildlife Landuse Only. Restoration will occur according to habitat needs ide Site Descriptions or other suitable reference conditions. Must receive State Office					ns with site appr	opriate
plicable			1				
oplicable ological	Wetland Wildlife Management	(
oplicable ological 644	Wetland Wildlife Management Habitat Monitoring and Management, Very-Low Intensity and Complexity	Acre	\$0.71		\$0.86		
oplicable ological 644		Acre Acre	\$0.71 \$2.41		\$0.86 \$2.89		
644	Habitat Monitoring and Management, Very-Low Intensity and Complexity	i or	STARS COM				
644	Habitat Monitoring and Management, Very-Low Intensity and Complexity Wetland Widlife Habitat Mongtand Mgt, Low Intensity and Complexity Habitat Monitoring and Management, Medium Intensity and Complexity 2/ Habitat Monitoring and Management, High Intensity and Complexity 2/	Acre Acre Acre	\$2.41 \$8.95 \$21.75		\$2.89 \$10.74 \$26.09		
644	Habitat Monitoring and Management, Very-Low Intensity and Complexity Wetland Widlife Habitat Mongtand Mgt, Low Intensity and Complexity Habitat Monitoring and Management, Medium Intensity and Complexity 2/	Acre Acre	\$2.41 \$8.95		\$2.89 \$10.74		1 Year

Practice Code	Conservation Practice	Payment Unit	Payment Rate	Maximum Amount	HU Payment Rate	HU Maximum Amount	Lifespan				
FOOTNOTES											
to help thes EQIP fundit of size of op Amounts" fr applicant(s) Historically Farmers as applications	Amounts for the life of the contract are established on certain conservation practices or optic se producers enhance agricultural and forested lands in a cost-effective and environmentally ng assistance available to a larger number of eligible farmers, ranchers and forest producer peration (i.e., by not obligating large amounts of funds on operations with more acres, Georg or identified practices within this policy does not allow applicants to exceed the maximums to), where 'control' means possession of the land by ownership, written lease, or other legal ag Underserved Maximum Amounts refers to the maximum contract payment for Historically L defined in the 2014 EQIP Final Rule). NOTE: While there is no restriction on the number of s (and contracted amounts) will count towards the Maximum Amount as listed in FY16 EQIP by the same applicant(s).	beneficial mann s here in Georgia gia EQIP funds w nrough multiple o greement (as ger Inderserved Farr applications (or	er. Establishing a, and also as a vill be available to ffers/contracts of nerally indicated ners (Limited Re contracts, if fund	Maximum Amount method to make fu o a larger number on different acres w on FSA's EZ156 & esource Farmers, f ded) that may be s	ts for the contrac unding available t of separate open when those acres Wor Producer Far Beginning Farme ubmitted by an a	t allows Georgia N to eligible producer: ations). The specific are controlled by the rm Data Report for ers, and Socially Dis applicant for EQIP, a	RCS to make s regardless fied "Maximum he same ms). sadvantaged all FY16 EQIP				
(a) Forest (b) Forest (c) GFC F (d) Conse (e) a site-:	est Management Plan. Approved FMP's are: Management Plan 106 Plan developed by a TSP OR Stewardship Plan (FSP) prepared by GFC OR Resource Management Plan OR rvation Plan on Forest Land OR specific plan prepared by a professional forester if this site-specific plan has been approved er at the time the EQIP applicant signs the CPA 1200.	by either an NR(CS forester or th	e Georgia State							
Vegetative	on practices that are either structural or vegetative, and have a multi-year lifespan. Structura practices involve the establishment or planting of site-specific vegetative measures. Paym se a signatory to a contract which has EQIP funds used for any structural or vegetative prac	ents are establis	hed as a one-tin	ne only payment, n							
Technical S	Service Provider (http://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/techni	ical/tsp)									
	Georgia State Conservationist		ž	1/5/2016 Date	1						

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Site No.	Status	Monitoring Site Description	Au	g-15	Se	ep-15	Oc	Oct-15		v-15
			E.coli cfu/100 ml	Fecal Coliform cfu/100 ml	E.coli cfu/100 ml	Fecal Coliform cfu/100 ml	E.coli cfu/100 ml	Fecal Coliform cfu/100 ml	E.coli cfu/100 ml	Fecal Coliform cfu/100 ml
1	Pre BMP	Beaverdam Creek at Hwy 66	266.64	444.40	199.98	333.30	233.31	388.85	399.96	666.60
2	Pre BMP	Richland Creek at Hwy 15	99.99	166.65	166.65	277.75	166.65	277.75	399.96	666.60
3	Pre BMP	Richland Creek & Hwy 44	99.99	166.65	499.95	833.25	633.27	1055.45	633.27	1055.45
4	Pre BMP	Town Creek at Hwy 44	266.64	444.40	33.33	55.55	1399.86	2333.10	133.32	222.20
5	Pre BMP	Beaverdam Creek at Hwy 15	466.62	777.70	466.62	777.70	833.25	1388.75	499.95	833.25
6	Pre BMP	Town Creek @ MLK	166.65	277.75	666.60	1111.00	1933.14	3221.90	766.59	1277.65
7	Pre BMP	Richland Creek at Penfield Rd	NA	NA	NA	NA	233.31	388.85	433.29	722.15
9	Pre-BMP	Stillhouse Branch at Hwy 15	NA	NA	NA	NA	466.62	777.70	NA	NA
		Rainfall - previous 48 hours (inches)	0		0		0.03*		1.38**	
		Rainfall - previous 24 hours (inches)	0		0		0		0	

Site No.	Status	Monitoring Site Description	De	c-15	Ja	an-16	Fel	o-16	Ma	r-16	
			E.coli cfu/100 ml	Fecal Coliform cfu/100 ml	E.coli cfu/100 ml	Fecal Coliform cfu/100 ml	E.coli cfu/100 ml	Fecal Coliform cfu/100 ml	E.coli cfu/100 ml	Fecal Coliform cfu/100 ml	
1	Pre BMP	Beaverdam Creek at Hwy 66	133.32	222.20	66.66	111.10	1999.8	3333.00	433.29	722.15	
2	Pre BMP	Richland Creek at Hwy 15	1166.55	1944.25	166.65	277.75	233.31	388.85	633.27	1055.45	
3	Pre BMP	Richland Creek & Hwy 44	99.99	166.65	99.99	166.65	99.99	166.65	166.65	277.75	
4	Pre BMP	Town Creek at Hwy 44	599.94	999.90	66.66	111.10	533.28	888.80	133.32	222.20	
5	Pre BMP	Beaverdam Creek at Hwy 15	2866.38	4777.30	433.29	722.15	2133.12	3555.20	333.3	555.50	
6	Pre BMP	Town Creek @ MLK	2799.72	4666.20	1633.17	2721.95	2933.04	4888.40	1333.2	2222.00	
7	Pre BMP	Richland Creek at Penfield Rd	99.99	166.65	0.00	0.00	0.00	0.00	NA	NA	
8	Pre-BMP	unnamed tributary to Town Creek @ Greensboro Police Department (GA 15)	NA			NA	NA	NA	266.64	444.40	
9	Pre-BMP	Stillhouse Branch at Hwy 15	0***		0.00		NA	NA	199.98	333.30	
		Rainfall - previous 48 hours (inches)	0		0.00		0.00		0.00		
		Rainfall - previous 24 hours (inches)					0.00		0.00		
Site No.	Status	Monitoring Site Description	Ар	r-16							
			E.coli cfu/100 ml	Fecal Coliform cfu/100 ml			exceeds seasonal fecal coliform standard (200 Oct))			rd (200 May -	
1	Pre BMP	Beaverdam Creek at Hwy 66	333.30	555.50			exceeds seas	sonal fecal co	liform standa	rd (1000 Nov	
2	Pre BMP	Richland Creek at Hwy 15	166.65	277.75			wet weather	r sampling eve	ent		
3	Pre BMP	Richland Creek & Hwy 44	133.32	222.20							
4	Pre BMP	Town Creek at Hwy 44	299.97	499.95		*	100	unts as follow			
5	Pre BMP	Beaverdam Creek at Hwy 15	233.31	388.85			0,48" 10/5 - 0.03"; 10/6 - 0". This sampling even considered a wet weather sampling event per Ga EPD.				
6	Pre BMP	Town Creek @ MLK	766.59	1277.65		**	Rainfall amo	unts as follow	vs: 11/1 - 1.02	2"; 11/2 -	
7	Pre BMP	Richland Creek at Penfield Rd	NA	NA				0.00". This sa wet weather			
8	Pre-BMP	unnamed tributary to Town Creek @ Greensboro Police Department (GA 15)	99.99	166.65		***		vas 0.14" rain v heavy rainfi			
9	Pre-BMP	Stillhouse Branch at Hwy 15	166.65	277.75			reported Ver	y neavy raint	an rom - / ar	0.	
		Rainfall - previous 48 hours (inches)	0.00								
		Rainfall - previous 24 hours (inches)	0.00								