ATTACHMENT 1WS

NORTH CAROLINA SOIL AND WATER CONSERVATION COMMISSION
RALEIGH, NORTH CAROLINA
WORK SESSION AGENDA
DRAFT

WORK SESSION
The Cherokee Convention Center
123 Harrahs Service Drive
Ballroom 113
Cherokee, NC 28719
August 15, 2022
6:00 p.m.
Click here to join the meeting

BUSINESS SESSION
The Cherokee Convention Center
123 Harrahs Service Drive
Ballroom 113
Cherokee, NC 28719
August 16, 2022
9:00 a.m.
Click here to join the meeting

I. CALL TO ORDER

The State Government Ethics Act mandates that at the beginning of any meeting the Chair reminds all the members of their duty to avoid conflicts of interest and inquire as to whether any member knows of any conflict of interest or potential conflict with respect to matters to come before the Commission. If any member knows of a conflict of interest or potential conflict, please state so at this time.

II. PRELIMINARY – Business Meeting

Welcome – Cell phones set to silent or $100 donation — Chairman John Langdon

III. BUSINESS

1. Approval of Agenda — Chairman John Langdon
2. Approval of Meeting Minutes — Chairman John Langdon
   A. May 17, 2022 Work Session Meeting Minutes
   B. May 18, 2022 Business Session Meeting Minutes
   C. July 22, 2022 Business Session Meeting Minutes
3. Division Report — Director Vernon Cox
4. Association Report — President Chris Hughes
5. Executive Director's Report — Mr. Bryan Evans
6. NRCS Report — Mr. Tim Beard
7. Consent Agenda
   A. Supervisor Appointments — Mr. David Williams
   B. Supervisor Contracts — Mr. John Beck
   C. Technical Specialists — Mr. Michael Shepherd

8. Tropical Storm Fred Update — Mr. David Williams

9. Job Approval Authority — Mr. Josh Vetter
   A. Applications
   B. Technical Competency Requirement Revisions
      i. Cropland Conversion
      ii. Heavy Use Area Protection
      iii. Land Smoothing

10. Swine & Dairy Assistance Program — Mr. Michael Shepherd
    A. Closure – Waste Impoundments BMP Revisions

11. Agriculture Cost Share Program — Mr. John Beck
    A. Best Management Practice (BMP) Policy Revisions for Consideration
       i. Cropland Conversion
       ii. Land Smoothing
       iii. Stock Trails and Walkways
       iv. Precision Agrichemical Application
    B. Detailed Implementation Plan
    C. Average Cost List
    D. District Financial Assistance Allocation

12. Technical Assistance Allocation — Ms. Julie Henshaw

13. Agricultural Water Resources Assistance Program — Ms. Sydney Mucha
    A. Detailed Implementation Plan
    B. Average Cost List
    C. District Financial Assistance Allocation

14. Community Conservation Assistance Program — Mr. Tom Hill
    A. Structural Stormwater Conveyance BMP Revision
    B. Detailed Implementation Plan
    C. Average Cost List

15. Cost Share Programs Spot Check Report — Mr. Ken Parks

16. Supervisor Training Report — Ms. Kristina Fischer
    A. Progress Report
    B. Consideration of Approval of Credits for External Training Events

IV. PUBLIC COMMENTS

V. ADJOURNMENT

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RALEIGH, NORTH CAROLINA
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    A. Structural Stormwater Conveyance BMP Revision
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16. Supervisor Training Program — Ms. Kristina Fischer
    A. Progress Report
    B. Consideration of Approval of Credits for External Training Events

IV. PUBLIC COMMENTS

V. ADJOURNMENT

NORTH CAROLINA
SOIL & WATER CONSERVATION COMMISSION
WORK SESSION MEETING MINUTES
May 17, 2022

Department of Agriculture
Division of Soil & Water Conservation
Sampson County Agri-Exposition Center
Heritage Hall - A
414 Warsaw Road
Clinton, NC 28328

Commission Members	Guests	Guests
John Langdon	Rick McSwain	Henry Faison
Chris Hughes	Ralston James	Michelle Lovejoy
Blount Knowles	Scott Melvin	Joseph Hanks
James Lamb	Ken Parks	Rob Baldwin
Derek Potter	Cayle Aldridge	Melanie Harris
George Teague	Kristina Fischer	Candice Adams
Mike Willis	Sydney Mucha	Eric Pare - online
Commission Counsel	Michael Shepherd	Gail Hughes – online
Phillip Reynolds	Joshua Vetter	Amanda Sand - online
Guests	Helen Wiklund	Dewitt Hardee – online
Vernon Cox	Brandy Myers	Alexandra Dinwiddie - online
David Williams	Lisa Fine	Kayla McCoy - online
Bryan Evans	Patrick Mitchell	Anne Coan - online
Julie Henshaw	Tom Hill	
John Beck	Patrick Mitchell	

Chairman Langdon called the meeting to order at 6:29 p.m. Chairman Langdon inquired whether any Commission members need to declare any conflict of interest, or appearance of conflict of interest, that may exist for agenda items under consideration, as mandated by the State Ethics Act. Chairman Langdon stated the meeting guidelines. Chairman Langdon asked all participants to introduce themselves.

1. **Approval of Agenda:** Chairman Langdon asked for comments on the agenda. None were declared.

2. **Approval of Meeting Minutes:** Chairman Langdon asked for comments on the minutes. Commissioner Potter stated the minutes are in order.

   2A. March 15, 2022, Work Session Meeting Minutes
   2B. March 16, 2022, Business Session Meeting Minutes

2C. April 26, 2022, Business Session Meeting Minutes

3. **Division Report:** Chairman Langdon recognized Director Vernon Cox to present. A copy of the report is included as an official part of the minutes. Director Cox stated the report will be presented tomorrow.

4. **Association Report:** Chairman Langdon recognized President Hughes to present. A copy of the report is included as an official part of the minutes. President Hughes stated the report will be presented tomorrow.

5. **Executive Director's Report:** Chairman Langdon recognized Mr. Bryan Evans to present. A copy of the report is included as an official part of the minutes. Mr. Evans stated the report will be presented tomorrow.

6. **NRCS Report:** Chairman Langdon asked if Mr. Tim Beard will be in attendance to present at the meeting tomorrow. Director Cox stated Mr. Beard will be in attendance to present the report tomorrow. A copy of the report is included as an official part of the minutes.

7. **Consent Agenda:** Chairman Langdon recognized Mr. David Williams and Mr. John Beck to present. Copies of the reports are included as an official part of the minutes.

7A. Supervisor Appointments:

- Cedric "Wayne" Black, Beaufort SWCD, filling the unexpired appointed term of Joseph E. Rogers for 2018-2022 who passed away
- Mike Sturdivant, Chatham SWCD, filling the unexpired appointed term of Edward McLaurin for 2018-2022 who passed away
- Craig Myers, Davie SWCD, filling the unexpired appointed term of John T. Peeler for 2018-2022 with an attached resignation letter from Mr. Peeler
- William C. Morrow, Haywood SWCD, filling the unexpired elected term of Robert Cathey for 2018-2022 with an attached resignation letter from Mr. Cathey
- Jennifer Best, Haywood SWCD, filling the unexpired appointed term of William C. Morrow for 2018-2022 with an attached resignation letter from Mr. Morrow
- Rhonda Hughes Phillips, Mitchell SWCD, filling the unexpired appointed term of Douglas Harrell for 2020-2024 with an attached resignation letter from Mr. Harrell
- Brent Andrew Manning, Nash SWCD, filling the unexpired appointed term of Willie Harrison for 2020-2024 with an attached resignation letter from Mr. Harrison
- William D. Fairchild III, New River SWCD, filling the unexpired elected term of Russell Vannoy for 2020-2024 with an attached resignation letter from Mr. Vannoy
- Alice High, Rutherford SWCD, filling the unexpired appointed term of Larry McDermott for 2020-2024 with an attached resignation letter from Mr. McDermott
- McKinley Lee Jenkins Jr., Swain SWCD, filling the unexpired elected term of Clint C. Carson Jr., for 2020-2024 who passed away

7B. Supervisor Contracts: 4 contracts; totaling $28,678

8. **Job Approval Authority:** Chairman Langdon recognized Mr. Joshua Vetter to present. A copy of the report is included as an official part of the minutes.

8A. Applications: Mr. Vetter stated there are four applications for comparable NRCS Job Approval Authority (JAA) for up to 21 varying practices.

9. **Consideration of Streamflow Rehabilitation Assistance Program Allocation:** Chairman Langdon recognized Mr. David Williams to present. A copy of the report is included as an official part of the minutes. Mr. Williams presented the following three allocation options summarized below.

	Streamflow Part B	**Watershed Part C**	**Overall Cap**	**Notes**
Option 1	Vegetative Debris Only Base: $250K Add 4.70419% Cap: $700K	Base C1: $500K Add 50% of C1 request if request USDA, 13% if not C2/C3: Add up to $135K/$95K Cap: $2,000,000	None	Scenario presented at 4/26 meeting – Gray column on chart
Option 2	Vegetative Debris Only Base: $250K Add: 5.636386% Cap: $500K	Same as Option 1	$2M	Brown column on chart
Option 3	Vegetative Debris Only Base: $250K Add: 6.930049% Cap: $500K Deduct 50% of remaining Matthew/Florence funding	Same as Option 1	$2M	Green Column on chart

There was much discussion about each option and the applicant's accountability, milestones, parameters, and deadlines. Mr. Williams stated the funds must be encumbered by June 30, 2023. The funds cannot be reallocated after 2023 because the funds will be reverted back to the Emergency Management Fund. If a project does not show any progress, the allocation may be pulled, and the local sponsor would have to appear before the Commission. Mr. Williams also recommended that the applicant have 60 days to return the contract, otherwise, the offer is withdrawn. The Commissioners agree that Option 2 is a good compromise with a cap of $2M per county.

Chairman Langdon called a break at 8:08 p.m. The meeting resumed at 8:19 p.m.

Commissioner Potter stated the legislature challenged us to deploy this program quickly. Mr. Williams stated once there is a written contract, it is a binding commitment. Commissioner Potter would like to see the local sponsor with a minimal level of completion by March 1.

Mr. Baldwin stated encumbered funds are contracted, which is how the Agriculture Cost Share Program works. The Division's programs have been very productive for us, and we have learned to work with them. It would help Wilkes Soil & Water Conservation District to receive the entire allocation especially since the district has leveraged with the County to include additional funding in their budget.

Mr. Evans stated not all the districts have been eligible for disaster relief funding. We do need tight parameters and if the money is encumbered by June 2023, the General Assembly will recognize that the 2021 State budget was not enacted until November of 2021.

Mr. Reynolds stated one concern that the Commission should consider is to be able to justify its stewardship over the funds, expending the funds in a manner that the goals of the program are accomplished, and the applicants that are receiving this funding. The Commission can adopt rules for this program to dictate these allocations. The Commission can enforce Item 3 under the Recommendations for Performance Milestones from the March meeting which states the following: "*Grantees must submit quarterly reports. Reports that do not indicate significant progress on hiring contractor within the first 6 months may be required to appear before the Commission to consider whether a contract should be cancelled and funds redistributed."*

Commissioner Willis stated at least 50% of the funds should be committed to a contract with a vendor and the funds encumbered and show progress in the quarterly report by February 28 or they would have to appear before the Commission to consider whether the contract should be cancelled.

Mr. Williams presented a new Contract Performance Milestone which states, "*Each grantee must submit a report on or before February 28, 2023, demonstrating that at least 50% of their contracted funds have been committed to contracts with vendors. Any grantee who does not meet this condition shall be subject to reverting unencumbered funds and having those funds reallocated to other grantees who have achieved this expectation."*

10. **AgWRAP Baseflow Interceptor Revisions:** Chairman Langdon recognized Ms. Sydney Mucha to present. A copy of the report is included as an official part of the minutes. Ms. Mucha presented the minor revisions as follows:

    - Addition of required effects
    - Addition of benefits statement
    - BMP cap of $15,000
    - Language on produce safety rule
    - Clarification on cost share assistance for fencing
    - Creation of Operations & Maintenance Plan and Cooperator Acknowledgement Form

11. **Community Conservation Assistance Program Regional Application Recommendations:** Chairman Langdon recognized Mr. Tom Hill to present. A copy of the report is included as an official part of the minutes. Mr. Hill noted a correction and stated Cumberland should be listed only in the Central Region not as it is shown in both the Central and Eastern Regions. The $5,000 will be removed from the East and will go to the Larry Sneeden project, which received only partial funding for a total funding request of $34,348. Additionally, we received $1.4M in

additional requests and have $743,000 available for allocation. All funds will be encumbered or allocated. Tomorrow a just-in-time allocation will be requested for any funds that are returned.

12. **Cost Share Programs Average Costs Update:** Chairman Langdon recognized Mr. John Beck to present. A copy of the report is included as an official part of the minutes. Mr. Beck listed the technical corrections and recommendation as follows:

    - No significant changes to the quantity of cost list items
    - No new actual cost items
    - Proposing adjustments to some components
        - Combine commonly used components for efficiency
        - Adjust component types to match JAA policy
    - Extensive overhaul of average cost amounts utilizing RSMeans Cost Books Data

    The capabilities of RSMeans include the following:

    - Updated cost book data for each city on a quarterly basis
    - Contains an extensive database of components that fit the cost share program
    - Allows for cost estimates that include materials and installation
    - Costs may be generated by area
    - Expect significant increases in average costs from FY 2022

13. **Request for Exception to Criteria for Extension of Previous Program Year Contracts Policy:** Chairman Langdon recognized Ms. Julie Henshaw to present. A copy of the report is included as an official part of the minutes. The Commission's existing policy states that on June 30 of each program year all outstanding third year contracts automatically expire, and all funds encumbered to those contracts are returned to state accounts. If the request for payment is not received by the day before the July commission meeting, a district supervisor must appear before the commission to request an extension.

    Division staff request consideration of a policy exception of the District Supervisor requirement to attend the first Commission meeting of the new fiscal year for the following groups of contracts:

    1. Any contract that is pended for Job Approval Authority for those outside of district level approval
    2. Any contract where engineering approval was provided less than 12 months prior to expiration.

    Chairman Langdon stated Item 13 will be removed from tomorrow's agenda. The Chairman will consult with the Division after June 30 to decide how to address contract extension requests. This may require a virtual meeting prior to the next planned meeting of the Commission in August.

    Mr. Reynolds commented on the proposed StRAP performance milestones and noted that each grantee must submit a report on or before February 28, 2023, demonstrating that at least 50% of granted funds have been committed to contracts, i.e., encumbered with vendors. The failure

of a grantee to meet this condition may subject the grantees remaining unencumbered funds to reversion and reallocation by this Commission.

Mr. Reynolds stated based on the revised Recommendations for Performance Milestones presented by Mr. Williams, there will need to be a motion to modify the existing Commission action that was taken in March.

IV. Public Comments: Chairman Langdon asked if anyone had any comments. None were declared.

V. Adjournment: Meeting adjourned at 10:22 p.m.

Vernon N. Cox, Director
Division of Soil & Water Conservation, Raleigh, N.C.

Helen Wiklund, Recording Secretary

These minutes were approved by the North Carolina Soil & Water Conservation Commission on August 16, 2022.

NORTH CAROLINA
SOIL & WATER CONSERVATION COMMISSION
BUSINESS SESSION MEETING MINUTES
May 18, 2022

Department of Agriculture
Division of Soil & Water Conservation
Sampson County Agri-Exposition Center
Heritage Hall - A
414 Warsaw Road
Clinton, NC 28328

Commission Members	Guests	Guests	Guests - Online
John Langdon	Tim Beard	Candice Adams	Lisa Fine
Chris Hughes	Ken Parks	Kristy Dail	Gary Higgins
Blount Knowles	Cayle Aldridge	Matt Swinarski	Kaitlyn Johnson
James Lamb	John Beck	**Guests - Online**	Creeden Kowal
Derek Potter	Helen Wiklund	Eric Pare	Madison Patrick
George Teague	Kristina Fischer	Anne Coan	Jenny Parks
Mike Willis	Joshua Vetter	Jason Walker	Marybeth Watkins
Commission Counsel	Rob Baldwin	Josh Pate	Lea-Ann Branch
Phillip Reynolds	Brandy Myers	Howard Robinson	PJ Andrews
Guests	Michael Shepherd	Cole Smith	Maria Polizzi
Vernon Cox	Yamika Bennett	Brandy Oldham	Heather Reichert
David Williams	Odessa Armstrong	Angie Quinn	Travis Smith
Bryan Evans	Josh Hammond	Charles “Chuckie” Bass	Jason Turner
Julie Henshaw	Joseph Hanks	Shelby Cook	Randy Freeman
Rick McSwain	Henry Faison	Daniel McClellan	Michael Jones
Ralston James	Melanie Harris	Paula Day	Ryan Janway
Tom Hill	Sydney Mucha	Dewitt Hardee	
Scott Melvin	Keith Larick	Elliot Swain	

Chairman Langdon called the meeting to order at 9:01 a.m. Chairman Langdon inquired whether any Commission members need to declare any conflict of interest, or appearance of conflict of interest, that may exist for agenda items under consideration, as mandated by the State Ethics Act. Chairman Langdon stated the meeting guidelines.

1. **Approval of Agenda:** Chairman Langdon asked for approval of the agenda. Commissioner Hughes moved to approve the agenda and Commissioner Knowles seconded. Chairman Langdon stated to strike the words in parentheses (*Item has been removed*) for Item 13; the item will be voted on. Motion carried.

2. **Approval of Meeting Minutes:** Chairman Langdon asked for approval of the minutes. Commissioner Hughes moved to approve the minutes and Commissioner Potter seconded. Motion carried.

   2A. March 15, 2022, Work Session Meeting Minutes
   2B. March 16, 2022, Business Session Meeting Minutes
   2C. April 26, 2022, Business Session Meeting Minutes

3. **Division Report:** Chairman Langdon recognized Director Vernon Cox to present. A copy of the report is included as an official part of the minutes. Director Cox stated the following:

   - Personnel Update
   - NC Climate Wise Agriculture Program USDA Proposal was submitted
     - Total funding request: $37.2M
     - Funding will go primarily towards agronomic practices, i.e., cover crops, filter strips, etc.
   - Discussed with Neill Westerbeek from Smithfield Foods and the division staff the requirement for swine and dairy lagoon markers
     - Division of Water Resources (DWR) should provide a form for certification that would verify the markers; it is not certain who specifically would do the work
     - Technical specialist may need to be trained and may need approval through the Commission to certify the work which needs to be completed by September 2024
     - Laser levels were purchased for 26 districts to certify the lagoon markers
   - July Commission meeting has been rescheduled to August 15 and 16 and will be at the Cherokee Convention Center

4. **Association Report:** Chairman Langdon recognized President Hughes to present. A copy of the report is included as an official part of the minutes. President Hughes stated the following:

   - 2023 Annual Meeting will be at the Cherokee Convention Center with one six-hour Basic Training for Soil & Water Conservation District Supervisors on Saturday, January 7
   - Basic Training for Soil & Water Conservation District Supervisors will be held in three regional locations in February 2023
   - Association is working on the new layout for the fair booth
   - Southeast NACD meeting is being held in San Juan, Puerto Rico, on July 17-19 with a delegation of representatives from North Carolina
   - 2022 North Carolina Envirothon was a success with over 90 teams competing and Enloe High School from Wake County came in first place and will participate at the NCF International event in Ohio
   - North Carolina is providing a Christmas tree for the U.S. State Capitol, and the Association is partnering with the U.S. Forestry Service to harvest the tree on November 5. The tree will travel across the state and stopping in different locations along the way
     - Tree lighting ceremony will be on November 30 in Washington, DC
     - Recommends having a strong contingent of representatives present from the Commission and anyone that supports North Carolina agriculture

5. **Executive Director's Report:** Chairman Langdon recognized Mr. Bryan Evans to present. A copy of the report is included as an official part of the minutes. Mr. Evans stated the following:

- Spring Area meetings are complete and working on the Fall meetings
- Legislature is in a short session
- Attended a roundtable discussion about Climate Smart Agriculture Initiatives with USDA Secretary Tom Vilsack and U.S. EPA Administrator Michael Regan to acquire additional revenue for farmers
- NACD coordinated a virtual fly-in with Congresswoman Alma Adams' staff person and NACD rep, Nancy Carter, participated and discussed the issues in North Carolina
- 2021 Conservation Farm Family celebration was held at S&S Farms in Pitt County

6. **NRCS Report:** Chairman Langdon recognized Mr. Tim Beard to present. A copy of the report is included as an official part of the minutes. Mr. Beard introduced three of his staff members in attendance. Mr. Beard stated the following:

- Funding Overview
    - NRCS has $23M in funding and has obligated $4.6M to 131 contracts
    - $500K is allocated to support the Urban Conservation Initiative
    - $1M is allocated to support the Climate Smart Agriculture Initiative, which will be made available to 53 counties
    - $1.5M is contracted to support the New and Beginning Farmers and Ranchers and almost $600K is contracted to support Socially Disadvantaged Farmers and Ranchers in North Carolina
    - $1M is allocated to the Long-leaf Pine Funding Pool of which over $883K has been contracted
    - $979K is for a new initiative called the Conservation Incentive Contracts (CIC) with 25 contracts
    - Asked for $7M for the Conservation Stewardship Program (CSP) in NC and received $3.9M
    - Received an additional $2.4M for easements
    - $23M is available for EQIP and ~$12M for CSP
- Program Updates
    - Watershed Operations Program
        - Six projects include rehabilitating dams, flood prevention, and watershed restoration in Bertie, Hertford, Northampton, Roberson, and Pamlico Counties
    - Urban Agriculture Initiative
        - Offers separate funding that is based on the 2017 Census and offers technical and financial assistance to urban producers; application deadline is June 3, 2022
        - A proposed Urban Conservation Priority Map for North Carolina was presented. The map shows three different priority areas: the high priority areas are in green, five miles outside the green areas is the medium priority areas, and six to ten miles outside the medium areas are the low priority areas
- NRCS personnel are back in the office since May 3

7. **Consent Agenda:** Chairman Langdon asked for approval of the consent agenda. Copies of the reports are included as an official part of the minutes. Commissioner Hughes moved to approve the consent agenda and Commissioner Willis seconded. Motion carried.

   7A. Supervisor Appointments:

   - Cedric "Wayne" Black, Beaufort SWCD, filling the unexpired appointed term of Joseph E. Rogers for 2018-2022 who passed away
   - Mike Sturdivant, Chatham SWCD, filling the unexpired appointed term of Edward McLaurin for 2018-2022 who passed away
   - Craig Myers, Davie SWCD, filling the unexpired appointed term of John T. Peeler for 2018-2022 with an attached resignation letter from Mr. Peeler
   - William C. Morrow, Haywood SWCD, filling the unexpired elected term of Robert Cathey for 2018-2022 with an attached resignation letter from Mr. Cathey
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   - McKinley Lee Jenkins Jr., Swain SWCD, filling the unexpired elected term of Clint C. Carson Jr., for 2020-2024 who passed away

   7B. Supervisor Contracts: 4 contracts; totaling $28,678

8. **Job Approval Authority:** Chairman Langdon recognized Mr. Joshua Vetter to present. A copy of the report is included as an official part of the minutes.

   8A. Applications: Mr. Vetter stated there are four applications for comparable NRCS Job Approval Authority (JAA) for up to 21 varying practices.

   Chairman Langdon asked for approval of the applications. Commissioner Potter moved to approve the applications and Commissioner Hughes seconded. Motion carried.

9. **Consideration of Streamflow Rehabilitation Assistance Program Allocation:** Chairman Langdon recognized Mr. David Williams to present. A copy of the report is included as an official part of the minutes. Mr. Williams stated Option 2 is now labeled Option 2A. The allocation has been capped so no county will get more than $2M.

   Chairman Langdon asked for approval of the allocation. Commissioner Hughes moved to approve the program allocation as submitted and Commissioner Lamb seconded. Motion carried.

Mr. Williams presented the updated Contract Performance Milestones as follows:

1. Revised Scope of Work must be submitted within 45 days of notification of award.
2. Signed contract must be returned within 60 days of date it is sent to the applicant for execution.
3. *Milestone has been crossed out and incorporated with number 4.*
4. Each grantee must submit a report on or before February 28, 2023, demonstrating that at least fifty percent (50%) of the granted funds have been committed to contracts (i.e., encumbered) with vendors. The failure of a grantee to meet this condition may subject the grantee's remaining unencumbered funds to reversion and reallocation by the Commission.

Chairman Langdon asked for a motion to approve the Contract Performance Milestones. Commissioner Knowles moved to approve the milestones and Commissioner Hughes seconded. Commissioner Potter stated if there is any more money appropriated going forward, the Commission should prioritize future funding to those applicants that have demonstrated the ability to spend their previous allocations and complete the work. Motion carried.

10. **AgWRAP Baseflow Interceptor Revisions:** Chairman Langdon recognized Ms. Sydney Mucha to present. A copy of the report is included as an official part of the minutes. Ms. Mucha stated the AgWRAP Review Committee has reviewed the proposed changes. The revisions include the following:

- Addition of required effects, which include acres irrigated or number and type of livestock watered and the addition of a benefits statement
- BMP cap of $15,000
- Language to reference requirements of the Produce Safety Rule and clarification of cost share assistance for fencing
- Creation of an Operations & Maintenance Plan and Cooperator Acknowledgement Form

Chairman Langdon asked for approval of the revisions. Commissioner Knowles moved to approve the revisions and Commissioner Teague seconded. Motion carried.

11. **Community Conservation Assistance Program Regional Application Recommendations:** Chairman Langdon recognized Mr. Tom Hill to present. A copy of the report is included as an official part of the minutes. Mr. Hill stated the allocations in Batch 2 are for projects that will be implemented from the one-time nonrecurring funds. Mr. Hill also requested authority for Just-in-Time allocations for any reversion of funds for the remainder of the fiscal year towards projects that have been approved.

- Total funding request: $1.4M
  - Received 53 applications; 25 are proposed for funding; $743,238 proposed for allocation in all three regions
  - East Region: 26 applications received; 11 projects proposed for funding totaling $339,992
  - Central Region: 10 applications received; 10 projects proposed for funding totaling $266,246

- West Region: 16 applications received; 4 projects proposed for funding totaling $137,000
- There were 27 applications in the first batch, and 25 in the second batch with 40 districts submitting applications. Twelve districts submitted applications in both rounds with the requested funding just under $2.4M.

- Cumberland SWCD is listed in the East and Central Regions and the district is in the Central Region. The $5K listed for Cumberland SWCD in the East will go towards the Larry Sneeden Project.

Chairman Langdon asked for approval of the regional application recommendations. Commissioner Potter moved to approve the recommendations and Commissioner Knowles seconded. Motion carried.

12. **Cost Share Programs Average Costs Update:** Chairman Langdon recognized Mr. John Beck to present. A copy of the report is included as an official part of the minutes. Mr. Beck stated the purpose is to create a new process and adjust the average cost list every three years as required in the Rule 02 NCAC 59D .0107 (d). The average cost list will be easier to use and be more accurate. Redundancies will be removed, grammatical issues corrected, and removing old, expired, and unused items. There will not be any new actual cost items with this change. Some components are being combined based on commonly used practices to help with efficiency. The update is also trying to balance some of the new rules and policies associated with the Job Approval Authority (JAA) policy. The methodology the workgroup approved is to utilize the RSMeans Cost Books Data. There will be a major overhaul and it is anticipated that there will be some significant increases in the dollar amounts. The map shows the cost indexed by cities.

13. **Request for Exception to Criteria for Extension of Previous Program Year Contracts Policy:** Chairman Langdon recognized Ms. Julie Henshaw to present. A copy of the report is included as an official part of the minutes. Ms. Henshaw stated the modifications are based upon the Commission's approval in May of 2018 to grant an exception to the requirement for a district supervisor to have to appear in person and request an extension for expiring contracts in certain categories. The Division recommends some flexibility and to provide some relief to district supervisors who must come before the Commission to ask for an extension request for their expiring contracts. Division staff recommend a policy exception of the District Supervisor requirement to attend the first Commission meeting of the new fiscal year for any 2020 contract. After July 1, 2022, the Division Director and Commission Chair will determine the scope of the number of contracts that fall into the criteria.

    Chairman Langdon stated since we are traveling to the western part of the state and are still faced with COVID issues, weather, and supply chain interruptions to get these projects completed, this policy will be waived for first-year extensions. A virtual meeting will be scheduled after July 1 to consider requests for other contract extensions.

    Commissioner Potter moved to approve to waive these first-year extensions due to COVID, supply chain issues, etc., and require the district supervisors that have had prior extensions to virtually come before the Commission after the new fiscal year starts and Commissioner Hughes seconded. Motion carried.

IV. Public Comments: Chairman Langdon asked for everyone to introduce themselves and thanked the Sampson staff for hosting the Commission meeting and for the field tours yesterday. Chairman Langdon thanked Commissioner Lamb for organizing this meeting in his district.

Commissioner Knowles was very impressed with the technology for treating sludge and managing chicken litter, which is not an issue in Bertie County. Commissioner Knowles thanked Sampson County for the use of the facility.

Commissioner Hughes thanked all those involved in the tours and stated we are a leader in agriculture and people need to understand that farming is renewable energy. Commissioner Hughes added North Carolina is finding cutting-edge ways that the world should know about to fertilize the ground.

Commissioner Willis stated the more people we must feed, the more food we produce, there is more waste production, and it is not going away. We must figure out an economical way to manage it. It is great to see the integrators in the East take the lead and make strides to address these potential problems.

Commissioner Lamb stated we saw agricultural energy and then sludge drying facilities during our tour yesterday. We would like to see, at some point, the use of the heat generated at the Ag Energy facility and storage capacities that we have incorporated. We need to get some of these innovative technologies to allow us to receive a trainload of grain from the Midwest and return a trainload of pelletized sludge back to the Midwest for use as fertilizer. We need to find a way to work with a few environmentalists to come together with a way to get it on the ground. It is an ideal model of sustainability.

Director Cox stated he is impressed with the technology and innovation of our industry. Director Cox thanked Prestage Farms and Smithfield for hosting and for the tours and hopes the Commission will help us achieve solutions for the farmers and processors in North Carolina.

Chairman Langdon stated we have opportunities at the district, state, and national levels to be the flagship of the southeast and for Johnston County to be the flagship of the State. Chairman Langdon challenges all the districts work together to collectively be a flagship in North Carolina.

Commissioner Potter stated to clarify at our last Commission meeting, we discussed the allocation and the ranking. We did not make a concrete policy or rule about processing. My concern is who will determine what processing is and for these entities that are getting the money. It should be left to the grantee to follow the State statute as written. They must use one method the entire way through. There should be an understanding between the Commission, Division, and Grantees that we are on the same page so there is no miscommunication.

Deputy Director Williams stated that as a result of decisions made at the March meeting, a list of options was incorporated into the StRAP application. The chart shows the responses from the applicants about how they intend to handle the debris with most choosing several options in the floodplain. The options include burning, cabling, chipping, removing, haul away, and use onsite. These options were approved by the Commission at the March meeting, which can be found on page 9 of the March 16 business session meeting minutes.

V. Adjournment: Chairman Langdon asked for a motion to adjourn. Commissioner Potter moved to adjourn the meeting and Commissioner Willis seconded. Meeting adjourned at 10:20 a.m.

Vernon N. Cox, Director
Division of Soil & Water Conservation, Raleigh, N.C.

Helen Wiklund, Recording Secretary

These minutes were approved by the North Carolina Soil & Water Conservation Commission on August 16, 2022.

NORTH CAROLINA
SOIL & WATER CONSERVATION COMMISSION
SPECIAL-CALLED TEAMS BUSINESS MEETING MINUTES
July 22, 2022

Department of Agriculture
Division of Soil & Water Conservation

Commission Members	Guests - Online	Guests - Online
John Langdon	Kristina Fischer	Daphne Cartner
Chris Hughes	Brandy Myers	Jacob Peele
Blount Knowles	Cayle Aldridge	Jessica Perrin
James Lamb	John Beck	Rachel Smith
Derek Potter	Eric Pare	Andrea Webb
George Teague	Helen Wiklund	Mikey Woodie
Mike Willis - phone	Lisa Fine	Anne Coan
Commission Counsel	Paula Day	Angie Quinn
Phillip Reynolds	Gail Hughes	Ed Wood
Guests - Online	Todd Roberts	Henry Moore
Vernon Cox	Jane Humphrey	Nicole Carolan
David Williams	Kenny Ray	Gerda Rhodes
Julie Henshaw	Martha Prinsloo	John Layton
Scott Melvin	Melanie Harris	Billy Kilpatrick
Rick McSwain	Sydney Mucha	Neil Brackett
Ralston James	Vickie Baker	Keith Larick
Tom Hill	Annette Adams	Nicole Warren
Joshua Vetter	Fredrick Cox	
Michael Shepherd	Travis Smith	

Chairman Langdon called the meeting to order at 9:03 a.m. Chairman Langdon inquired whether any Commission members need to declare any conflict of interest, or appearance of conflict of interest, that may exist for agenda items under consideration, as mandated by the State Ethics Act. Chairman Langdon stated the meeting guidelines.

1. **Approval of Agenda:** Chairman Langdon asked for approval of the agenda. Commissioner Hughes moved to approve the agenda and Commissioner Potter seconded. Motion carried.

2. **Consideration of Contract Extensions:** Chairman Langdon recognized Ms. Julie Henshaw to present. A copy of the report is included as an official part of the minutes.

   2A. Contract Extension for Contracts Meeting May 2021 Policy Exception: Ms. Henshaw stated the contracts reflect approximately 85 outstanding contracts that were set to expire on June 30, 2022, and some of these contracts have been paid out. The Division initially received 119 requests for

contract extensions from 44 districts. At the May commission meeting, the Commission waived the requirement that a district supervisor must appear in person to present the 2020 contract extension requests.

Chairman Langdon asked for a motion. Commissioner Potter moved to extend the contracts by one year and Commissioner Teague seconded. Motion carried.

2B. Contract Extensions for Contracts where approval was provided less than 12 months prior to expiration: Ms. Henshaw stated there are under 20 contracts that were approved with less than 12 months prior to expiration and were unable to meet the deadline. All the contracts meet the Commission's extension criteria. The Division recommends extending all these contracts.

Commissioner Potter is concerned about the longevity of a few of the contracts from 2017 and 2018 and the fact that State funds are on hold, when the funds could be used somewhere else. Ms. Henshaw stated these contracts are very specific, and there were a variety of processes that have been put in place. The landowners are vested in implementing all the projects. The designs will be completed; the only challenge is lining up contractors and materials.

Chairman Langdon asked for a motion. Commissioner Willis moved to extend all the contracts and Commissioner Hughes seconded. Motion carried.

2C. Contract Extension Requests: Ms. Henshaw stated Madison County canceled their contracts late yesterday so only 12 contracts will be reviewed. The list of contracts by district is below.

District Name	Contract Number	Program	Contracted BMP(s)	Reason for Extension
Cherokee	20-2014-807	AgWRAP	Agricultural Water Supply/Reuse Pond	Engineering BMPs – JAA/Design delays
Chowan	21-2018-002	ACSP	Land Smoothing	Other – Provide description below: Weather
Chowan	21-2018-003	ACSP	Land Smoothing	Other – Provide description below: Weather
Chowan	21-2019-007	ACSP	Land Smoothing	Other – Provide description below: Weather
Duplin	31-2019-007	ACSP	Grassed Waterway	Engineering BMPs - JAA/Design delays|Contractor related (equipment access, breakdown)
McDowell	59-2019-001	ACSP	Critical Area Planting, Agricultural Road Repair/Stabilization, Grade Stabilization Structure, Livestock	Personal related (sickness, death in family)| Engineering BMPs - JAA/Design delays| Other - Provide description below: COVID, Inflation
Orange	68-2019-014	ACSP	Closure - Waste Impoundment	Personal related (sickness, death in family)
Sampson	82-2019-803	AgWRAP	Agricultural Water Supply/Reuse Pond	Personal related (sickness, death in family)
Washington	94-2019-001	ACSP	Land Smoothing	Personal related (sickness, death in family)| Contractor related (equipment access, breakdown)
Washington	94-2019-006	CREP	Tree Planting	Personal related (sickness, death in family)| Non- engineering BMPs - JAA delays (ex. no one with JAA in vicinity)| Contractor related (equipment access, breakdown)
Washington	94-2019-007	CREP	Tree Planting	Personal related (sickness, death in family)| Non- engineering BMPs - JAA delays (ex. no one with JAA in vicinity)| Contractor related (equipment access, breakdown)
				Personal related (sickness, death in family)| Non- engineering BMPs - JAA delays (ex. no one with JAA in vicinity)| Contractor

Washington	94-2019-008	CREP	Tree Planting	related (equipment access, breakdown)

Ms. Henshaw introduced Supervisor Edgar Wood from Cherokee SWCD to present Contract #20-2014-807, and Mr. J.B. Reeves who is available for questions. Mr. Wood stated this contract is for a pond repair from 2014 and it has various issues. There were engineering delays, and the only time the pond can be worked on is in the spring or the fall. There has been a lot of rain over the last four or five years. The annual rainfall is over 80 inches a year. Mr. Reeves stated there were some engineering issues with this contract. The district was approved for seven different pond projects in 2014 with most of them being completed. The engineering issues were not resolved until 2019 and the auxiliary spillway for this pond runs under a highway. A special culvert had to be purchased and placed under the highway, which was completed in October 2020. There were more delays, due to COVID, where two special concrete drop boxes had to be shipped. In the fall of 2021, the district received a quote with a delivery date of the concrete boxes. The boxes were paid for by the producer for $4,200. With all the rain, it was difficult to excavate, and we told the producer to not order the boxes until there was a break in the weather. The cost of the boxes went up $1,000, and the cooperator is willing to pay the additional cost. This pond was funded at $15,000 and one-third of it is for these drop boxes and the culvert. The Department of Transportation (DOT) portion was completed, and the drop boxes could be delivered in three to four weeks after verification of the purchase. The expected completion date is before the spring of 2023. The construction is going to be primarily on the dam and the spillway.

Chairman Langdon asked for a motion. Commissioner Potter moved to approve the contract extension and Commissioner Teague seconded. Motion carried.

Ms. Henshaw introduced Supervisor John Layton from Chowan County to present Contract #s 21-2018-002, 21-2018-003, and 21-2019-007, and Mr. Jacob Peele who is available for questions. Mr. Layton stated there are three land smoothing contracts. These contracts have been delayed due to inclement weather with massive amounts of rainfall in the winter months, and the lack of contractors in the area. Mr. Peele stated the main reason for the delay is the amount of rain, and only one contractor is in the area that does this type of work. Contracts 21-2018-002 and 21-2018-003, the producers will hire a contractor, and Contract 21-2019-007, the producer will complete the work himself, since he has his own equipment. Some work has been completed on the two 2018 contracts, and work has not begun on Contract 21-2019-007, due to rainfall. Land smoothing can only be completed in certain months of the years, i.e., January to maybe April and then November to December and crops must be rotated around this activity.

Chairman Langdon asked for a motion. Commissioner Hughes moved to approve the contract extension and Commissioner Knowles seconded. Motion passed with four in favor and two against.

Ms. Henshaw stated this will be the third extension request for the 2018 contracts, and the second extension request for the 2019 contract.

Ms. Henshaw introduced Supervisor Billy Kilpatrick from Duplin SWCD to present Contract #31-2019-007, and Ms. Vickie Baker who is available for questions. Ms. Baker stated the contract is for a grass waterway, the final design was not approved until April 2021 and there was trouble with

contractors. The producer is ready to go in late October, early November. One waterway is over 1,000 feet long by 20 feet wide, and the other waterway is 800 feet long by 20 feet wide.

Chairman Langdon asked for a motion. Commissioner Potter moved to approve the contract extension and Commissioner Lamb seconded. Motion carried. Unanimous

Ms. Henshaw introduced Supervisor Neil Brackett from McDowell SWCD to present Contract #59-2019-001, and Ms. Andrea Webb who is available for questions. Mr. Brackett stated there has been a delay with the engineering design, which was received on January 6, 2021, and the cost of materials slowed the project down. A change in staff has delayed the contract, and the new staff had to get caught up. The new staffer continues to work on this with a completion date of September 1, 2022. Mr. Steve Banner with NRCS stated this is a joint effort between Agricultural Cost Share Program (ACSP) and EQIP to put in a well and couple of watering tanks in the heavy use areas. There has been a shortage of PVC pipe. There has also been a shortage of contractors.

Chairman Langdon asked for a motion. Commissioner Willis moved to approve the contract extension and Commissioner Hughes seconded. Motion carried.

Ms. Henshaw introduced Supervisor Gail Hughes from Orange SWCD to present Contract 68-2019-014. Ms. Hughes stated this lagoon closure is very close to being finished. They are a farm family and not contracted with any large companies and working hard to get it closed on this 30-year-old lagoon. There are a lot of solids that have built up in the lagoon, and one primary farmer had a medical issue, which has slowed the lagoon closure from being completed. Mr. Kenny Ray stated the solids and waste have been applied on the pasture and crop fields; it is in the process of breaching the dam. This will be completed in the next couple of weeks.

Chairman Langdon asked for a motion. Commissioner Potter moved to approve the contract extension and Commissioner Hughes seconded. Motion carried.

Ms. Henshaw introduced Supervisor Henry Moore from Sampson SWCD to present Contract #82-2019-803. Mr. Moore stated this is for a pond, and it is almost finished. The landowner is waiting for the riprap to be delivered, and it will be completed in the next month.

Commissioner Lamb recused himself since he is a supervisor in Sampson SWCD. Chairman Langdon asked for a motion. Commissioner Potter moved to approve the contract extension and Commissioner Knowles seconded. Motion carried.

Ms. Henshaw introduced Supervisor Gerda Rhodes from Washington SWCD to present Contract #s 94-2019-001, 94-2019-006, 94-2019-007, and 94-2019-008, and Ms. Martha Prinsloo who is available for questions. Ms. Rhodes stated some of the work has been completed on the land smoothing contract, but the family has been ill and there was a death in the family. The family purchased their own land smoothing equipment, but there has been a lot of wet weather. The project will be completed sometime between November 2022 and February 2023. Ms. Rhodes stated the tree planting contracts are finished and waiting for one absentee landowner to sign the documents via email, which will hopefully be returned early next week. We also needed Job Approval Authority (JAA) signatures which has caused delays, as well as a few communication issues.

Chairman Langdon asked for a motion. Commissioner Knowles moved to approve the contract extensions and Commissioner Teague seconded. Motion carried. Commissioner Potter stated these contracts are being presented a second time and Chowan's two 2018 contracts were presented for a third time. Commissioner Potter wanted to make a distinction between the two extension requests.

Ms. Henshaw stated the Division is aware of the number of cancellations both at the local and state levels. We continue to work on process improvements to help reduce that number. There is an online cancellation form for districts to use and an online 6-month extension form for districts to use and a more current FY2023 Average Cost List.

IV. Public Comments: Chairman Langdon asked if anyone had any comments. None were declared.

V. Adjournment: Chairman Langdon asked for a motion to adjourn. Commissioner Potter moved to adjourn the meeting and Commissioner Knowles seconded. Meeting adjourned at 10:13 a.m.

Vernon N. Cox, Director
Division of Soil & Water Conservation, Raleigh, N.C.

Helen Wiklund, Recording Secretary

These minutes were approved by the North Carolina Soil & Water Conservation Commission on August 16, 2022.

Personnel

- **New Hires:**
  - StRAP Program Manager – Matt Safford
  - *Engineer II (Rachel Smith)* – Becky *Starr* Silvis
  - *Engineer I (Saad Masood)* – Abel Ferry
- **Vacancies:**
  - Envir. Specialist II (Sandra Weitzel) –Offer
  - Engineer II (Chris Love) – Re-advertise
  - Environmental Specialist I (CREP) – Re-advertise
  - Environmental Specialist I (CREP) - Advertise

NC Conservation Employee Training

- Four Training Tracks (Technical, Education, Managerial, Conservation for New Employees)
- Total Registered: 218
  - District Staff – 170
  - DSWC – 32
  - NRCS – 12
  - ATAC - 1
  - NCASWCD – 1
  - District Supervisor – 1
  - Other – 1
- New Employee Orientation – 53 staff

Streamflow Rehabilitation Assistance Program (StRAP)

- Number of Participants - **111**
- Revised Scopes of work within 45 days – **100%**
- Contracts sent to Local Sponsor for Signature: **103**
- Fully Executed Contracts: 36
- (See Attachment for responses from non-applying Districts)
  - No-Response (Fishing Creek)

StRAP CONTRACTS Due Next 2 Weeks

Local Sponsor	Contact Name	Date Due	Comment
Currituck	Dylan Lloyd	8/19/2022	Will deliver contract at CET
Beaufort SWCD	Nathaniel Woolard	8/20/2022	
Guilford SWCD	Gary Cox	8/20/2022	**Requested a 30-day extension**
Chowan SWCD	Jacob Peele	8/22/2022	
County of Cumberland	Garry Crumpler	8/22/2022	
Henderson SWCD	Jonathan Wallin	8/22/2022	
New Hanover SWCD	Dru Harrison	8/22/2022	
Perquimans SWCD	Jacob Peele	8/22/2022	
Robeson SWCD	Jeffrey Stone/Linda Bunnell	8/22/2022	Mailed 8/12/22
Town of Fairmont	Jenny Larson	8/22/2022	
Wilson County	Josh Pate	8/22/2022	Mailed 8/12/22
Yadkin Valley Sewer Authority	Nicole Johnston	8/22/2022	
Mills River Partnership	Maria Wise	8/27/2022	
Madison SWCD	Tyler Ross	8/28/2022	

ATTACHMENT 3

Lake Townsend Streams Gets Some Repair Work

Posted by Scott D. Yost | Aug 1, 2022 | News

Streams around Lake Townsend, the largest Greensboro municipal water reservoir, are getting some work done to them thanks to a grant from the NC Department of Agriculture's Streamflow Rehabilitation Assistance Program. Guilford County government has been awarded just over $150,000 for the project.

The North Carolina Department of Agriculture and Consumer Services Division of Soil And Water Conservation has offered Guilford County the money to help cover the costs of removing vegetative debris from streams near the lake.

NCDA&CS Division of Soil and Water Conservation
Vernon Cox, Director
August 16, 2022

NOVEMBER Meeting

- Location: ????
- Work Session: November 15 (Tuesday @ 6:00 p.m.)
- Business Meeting: November 16 (Wednesday @ 9:00 a.m.)

ATTACHMENT 3 BLUE

ALAMANCE SOIL AND WATER CONSERVATION DISTRICT
209 N. Graham Hopedale Rd.
Burlington, NC 27215-0185
Phone: 336-290-0380

OUR SOIL ★ OUR STRENGTH

August 12, 2022

To: Vernon Cox
Director, NC Division of Soil and Water

From: Brad Moore
Alamance County SWCD
District Conservation Administrator

RE: StRAP Participation

Dear Mr. Cox,

Please see the statements below why the Alamance SWCD is not participating in the StRAP program as requested.

- Lack of interest from public and other municipalities
- Time is being spent training a new District staff person.
- We are currently working on eight Farmland Preservation Projects
- Concerns about the program process

The items above are in addition to continued support and assistance to landowners with Ag Cost Share, AgWrap, technical assistance with drainage and pond issues. Please feel free to contact me if you have any questions.

Thank you,

Brad Moore

Brad Moore
District Conservation Administrator
Alamance SWCD

Brown Creek Soil & Water
1758 Morven Rd
Wadesboro, NC 28170
(704) 994-3487

BROWN CREEK SOIL & WATER CONSERVATION DISTRICT
The Nation's First

June 21, 2022

Mr. Vernon Cox
Director, NC Division of Soil & Water Conservation
1614 Mail Service Center
Raleigh, NC 27699-1614

Dear Mr. Cox,

Brown Creek Soil & Water experienced a complete turnover of staff in the first quarter of 2022. Unfortunately, this staff turnover lead to a Resource Conservationist not being hired until approximately 2-weeks prior to the StRAP application deadline of March 31st. As the new Resource Conservationist was getting his feet under him, his and BCSWCD's priority focus was on the implementation of contracts and expenditure of cost share monies. The focus on cost share contracts resulted in the incompletion of the StRAP application.

In short, BCSWCD's lack of a StRAP application was due to coinciding timeframe of staff turnover and application deadline. BCSWCD intends to apply for StRAP funding in 2023.

Sincerely,

Ronnie Morgan

Ronnie Morgan

cc: Mr. Ralston James

Cox, Vernon N

From: Wingate, Tonya - NRCS, Yanceyville, NC <Tonya.Wingate@nc.nacdnet.net>
Sent: Wednesday, July 20, 2022 2:34 PM
To: Cox, Vernon N
Cc: Thompson, Mitch - NRCS-CD, Yanceyville, NC
Subject: [External] StRAP

Caswell County Soil & Water didn't request any of the Strap funds because there were no requests in Caswell County.

Thank you and if you have any questions, please let me or Mitch Thompson know.

Thanks,

Tonya J. Wingate
Senior Administrative Specialist
Caswell Soil & Water

Phone: 336-694-4162 x3
Email: tonya.wingate@nc.nacdnet.net

Cleveland County
NORTH CAROLINA

June 14, 2022

Mr. Vernon Cox
Director, Division of SWC
1614 Mail Service Center
Raleigh, NC 27699

Dear Mr. Cox:

I am writing to you as requested to explain why the Cleveland Soil and Water Conservation District did not request Streamflow Rehabilitation Assistance Program (StRAP) funding. The district first heard of the opportunity for funding through this program at our February 2022 board meeting. At that time, our district technical staff employee had just resigned, and our new education/administrative employee was scheduled to go on maternity leave. Due to these staffing issues, the District Board felt that we would not have the resources to implement this new program while continuing to manage existing programs that address our District's priorities and concerns

The Cleveland Soil and Water Conservation District is excited about the opportunities that StRAP funding can bring to our county and we look forward to being able to utilize this program in the future.

Sincerely,

Randy McDaniel
Chair, Cleveland SWCD

Soil & Water Conservation
844 WALLACE GROVE ROAD • SHELBY, NC 28150
PHONE 704.471.0235 EXT. 3

DURHAM
SOIL & WATER
CONSERVATION DISTRICT

June 29, 2022

Mr. Vernon Cox
Director, Division of Soil and Water
216 West Jones Street
Raleigh, NC 27603

Dear Mr. Cox

As requested, this letter is in response to your June 7, 2022, inquiry regarding StRAP applications. The District's Conservationist took the required training and visited several sites both in the county and in the city. Since approximately 1/3 of the county lies within the city limits, it was decided the District would partner with the city of Durham and they would submit applications located within the city. It was our understanding they did submit these sites. According to our Conservationist, based on the training they received there were no qualifying sites outside the city limits that they visited. This is not to say there are no sites in the county that would benefit from the StRAP program but given the deadline for applications and the existing staff's workload, time did not permit to locate them. The District did utilize its received training when they sent it's Conservationist to the mountains for a week to assist with the damage assessment from a previous hurricane.

In summary, we are very supportive of the StRAP program and commend the Commission for receiving this much needed program. The disconnect for us was the short window for finding sites and submitting applications. We did however assist the city of Durham with its site visits and applications. Should the commission choose to have an additional application window we will make every effort to find qualifying sites.

Sincerely,

Talmage Layton

Talmage Layton
Chair
Durham District

Durham County Admin II Building | 201 E. Main St/Fifth floor, Durham, NC 27701
(919)560-0558 | Fax (919)328-6192 | dconc.gov/swcd

ATTACHMENT 3 BLUE

FORSYTH SOIL AND WATER CONSERVATION DISTRICT

August 12, 2022

Heather Reichert
DSWC
1614 Mail Service Center
Raleigh, NC 27699-1614

Heather,

This letter is in reference to Contract number 22-080-4068. The funding for this contract was not appropriated in the Forsyth County Budget for fiscal year 2023. This necessitates the need for a budget amendment that must be approved by the Forsyth County Board of Commissioners. The Board will vote to approve this contract and budget amendment on September 8, 2022. It could take 2 to 3 weeks for the contract to work its way through the County Contract Control system once the approval is given by the Board. It is feasible that we can have the signed contract back to you on or before September 30, 2022. We appreciate the opportunity to utilize these funds and hope you will grant this request.

Mike Bowman

Soil & Water Conservationist

1450 Fairchild Road, Room 106 ♦ Winston-Salem, NC 27105 ♦ 336-703-2840

Gaston County Natural Resources Department
Gaston Soil and Water Conservation District
1303 Cherryville Highway - Dallas, North Carolina 28034 - Phone 704-922-4181 - Fax 704-922-2158

June 22, 2022

Mr. Vernon Cox
Director, Division of Soil and Water Conservation
1614 Mail Service Center
Raleigh NC 27699-1614

Dear Mr. Cox,

At the June 21, 2022 monthly Gaston SWCD Board Meeting, we shared your letter about the Commission's request to give explanation as to our county not filing an application for StRAP funding.

As previously reported in monthly meetings during the application period, the board was informed of efforts being made to solicit work expressly for the purpose of:

- Vegetative debris removal (e.g. woody vegetation)
- Instream sediment removal (removing sediment blockages, not wholesale dredging)
- Streambank stabilization (vegetative cover) with or without sediment removal
- Stream restoration, other stream repair needs (e.g. culvert replacement)

Staff visited more than a dozen sites, contacted landowners and municipalities. There were occasional snags discovered, but no significant blockages. Access to the snags or occasional downed trees would have been the limiting factor even if awarded funding. Also, the county has a funded Beaver Management Assistance Program (BMAP) that addresses blockages when they occur. Staff that performed the assessments has been with the District for 27 years and is familiar with areas historically prone to flooding and recurring blockage issues.

Also, the county overall has streambank erosion on many properties. But due to staffing's current commitments and responsibilities with various other funding opportunities being offered at such a short notice, an application could not be made. Stream restoration assessment, cost, design and commitments from landowners are a rigorous process that we have been performing for years and will continue to do so.

We didn't find any problems of significance that warranted an application or met the objectives of the program's purposes. We felt our understanding and evaluation of any possible sites was warranted and validated with the type of projects that were awarded funding and those projects that were not.

Sincerely,

Esther Scott

Ms. Esther Scott
Chair, Gaston SWCD

ATTACHMENT 3

Gates Soil and Water Conservation District
104 New Rd. – P.O. Box 61-Gatesville, NC 27938 - (252) 357-0290x3 - Fax (252) 357-1242

July 18, 2022

North Carolina Soil and Water Conservation Commission
1614 Mail Service Center
Raleigh, NC 27699

Dear North Carolina Soil and Water Conservation Commission:

In response to your inquiry concerning the Streamflow Rehabilitation Assistance Program, the Gates Soil and Water Conservation District was in fact, initially interested in utilizing the program. We had even begun the application process with a local drainage district. However, after receiving clarification on the requirements for removing the debris from the floodplain, we became concerned about the logistical issues they would present. After explaining these requirements to the potential contractors, the bids that were returned were so inflated that the drainage district decided to forfeit the opportunity for assistance and complete the work themselves.

We understand the option that was given to retain the debris by cable as opposed to removing it, however we do not agree that it is wise to leave cables in the wetlands and riparian areas indefinitely. These cables are subject to create hazards to recreationalists, potential loggers, boaters, wildlife, etc.

We have previously taken advantage of debris removal assistance programs, especially along Bennetts Creek, but a significant portion lies within the boundaries of Merchants Millpond State Park. The state parks will not allow debris to be cabled to their trees. A recent tornado left significant debris within this segment of the creek, and this program would have been a great help if it weren't for the new stipulations.

Our Board of Supervisors and staff would like to express our appreciation for making funds available for these projects, as well as taking interest in our feedback. We are hopeful that some future compromise concerning the debris handling stipulations could make this program beneficial to our county, but as it currently stands, the Streamflow Rehabilitation Assistance Program will be difficult to utilize in many of our local cases.

Sincerely,

Rick H Morgan

Rick Morgan
District Chairman

Granville Soil and Water Conservation District
518 Lewis St., Oxford, NC 27565- Phone 919-693-7345 ext.3

June 23, 2022

Vernon N. Cox, Director

NCDA&CS Division of Soil and Water Conservation

216 West Jones Street

Raleigh, NC 27603

Dear Mr. Cox,

We received your letter regarding the newly created Streamflow Rehabilitation Assistance Program (StRAP) and discussed it with our board at our June 13, 2022 meeting. We're glad to hear that there was such high interest in the program and hope that the funding provides a great benefit to the awarded applicants. To follow up on the Commission's request to provide an explanation for why we didn't request StRAP funding this year, please know that we're not opposed to the program in any way. We had district staff, our county manager, city engineers, town officials, the county forest ranger, FSA and others sit in on the original question and answers sessions in January of 2022. We advertised the program through press releases, the county's social media, FSA's newsletter and word of mouth. Staff reached out to the county's environmental affairs committee and the local Tar River Land Conservancy to help look for potential application areas. Following all of that, we only had 1-2 individuals reach out to us with inquiries. Upon visiting those couple sites, it was deemed that they didn't meet the required parameters of the program. Luckily Granville County hasn't been as severely affected from harsh storm damage like some North Carolina counties have over the past few years. Our 100 year flood plains aren't as wide here, as we're positioned closer to the headwaters of all three watersheds (Roanoke, Tar Pamlico, and Neuse). When talking about a downed tree here and there, factors such as turbidity, fish and wildlife habitat, and runoff velocity come into play as one weighs the cost benefit analysis of their environmental footprint. We thank the commission for their service and hope that through this communication you now have a better understanding of our particular situation. We'll continue to try to promote the program through boots on the ground, we just didn't have the applications this year. Best regards from the Granville County Soil and Water Board of Supervisors!

Sincerely,

Ronnie D. Burnette

Ronnie D. Burnette

Chair, Granville SWCD

GUILFORD SOIL & WATER CONSERVATION DISTRICT
3309 Burlington Road, Greensboro, NC 27405 Phone: 336-641-2440 Fax: 336-641-2441

August 4, 2022

Heather Reichert
Administrative Specialist
N.C. Department of Agriculture and Consumer Services
Division of Soil and Water Conservation
1614 Mail Service Center
Raleigh, NC 27699-1614

The Guilford Soil and Water Conservation District Board would like to request an additional 30 days for the StRAP contract to be submitted. The original due date was August 20, 2022. The new due date with extension approval by the Soil and Water Commission will be September 19, 2022.
The following are justifications for the extension:

- June 21, 2022 Notification of Funding Offer received.
- June 22, 2022 Copy of funding offer sent to Guilford County Planning Director.
- June 29, 2022 StRAP contract meeting with Guilford County Officials and Heather Reichert-NCDA&CS.
- July 18, 2022 Guilford County Commissioner's Agenda Meeting with County Manager.
- July 25, 2022 Called meeting. Guilford Soil and Water District board approved and accepted the $150,600 StRAP grant and directed staff to proceed accordingly for execution of the contract.
- August 4, 2022 StRAP contract will be presented to Guilford County Commissioners for approval.

Josh Myers
Vice-Chair, Guilford SWCD

Hertford
Soil & Water Conservation District

P. O. BOX 265
Winton, NC 27986-0265

252.358.7846 (office)
252.358.7839 (FAX)

July 11, 2022

Vernon N. Cox
Division of Soil & Water Conservation
Department of Agriculture & Consumer Service
1614 Mail Service Center
Raleigh, NC 27699-1614

Dear Mr. Cox

In response to your Streamflow Rehabilitation Assistance Program (StRAP) funding letter dated June 7th, I am responding to your request as to why the Hertford SWCD did not apply for funds. Hertford SWCD chose not to apply for funds for 3 primary reasons:

1) Both of the PL-566 watersheds in the County received funds for Stream Debris Removal after from Hurricane Matthew. This enabled the District to utilize funds to clear the watersheds of debris.

2) The funds were not requested for the natural waterways in the county because the District does not have a way to navigate the waterways to locate problem areas to prepare proper bid packets.

3) In addition to the primary reasons listed above, the requirements for all debris to be removed from the 100 year floodplain would not be financially feasible. There are approximately 79 miles of PL-566 watersheds in Bertie, Hertford, and Northampton Counties, with most of the canals in the 100 year floodplain.

If you have any additional questions, please contact the Hertford SWCD office at (252) 358-7846.

Thank you,

Eric M. Parker

Eric Parker *acting for*

John David Simons, III
Chairman, Hertford SWCD

HOKE COUNTY
SOIL & WATER
CONSERVATION DISTRICT
645 East Palmer Street
Raeford NC, 28376
Direct Line 910-848-8032
Email james.warner@nc.nacdnet.net

July 27, 2022

North Carolina Department of Agriculture and Consumer Services
Division of Soil and Water Conservation
1614 Mail Service Center
Raleigh, NC 27699-1614

Attention: Vernon N. Cox

Dear Mr. Cox:

Per your letter to Mr. Gary Hendrix dated June 7, 2022, I am writing this letter as an explanation as to why Hoke Soil and Water did not directly apply for StRAP funding.

As a result of past disasters, Hoke County has received funds from the Emergency Watershed Protection Program. Due to his previous participation in that program, Mr. Charles Jacobs, Hoke County Emergency Management Coordinator was notified of the StRAP funding via email, just as I was and we discussed the best way for our county to proceed.

Hurricane Florence in 2018, flooded many parts of Hoke County that were already extensively damaged by Hurricane Matthew just two years before. The former EWPP funds that were received by Mr. Jacobs were able to help with some site cleanup; however, there were still many sites across the county that did not get funded and are still in need of debris and sediment removal, culvert replacement/repair, bank stabilizations and stream flow restoration.

After some discussion, Mr. Jacobs and I decided that the County itself should apply for the much-needed StRAP funds since his office already had specific sites identified for debris removal and cleanup. I, as the Hoke Soil and Water District Cost Share Technician, have offered Mr. Jacobs technical assistance and to serve as the liaison between the Commission and Hoke County officials should any questions arise during this process of tackling and resolving the flooding and cleanup issues in our county.

Sincerely,

James L. Warner, Jr.
Cost Share Technician

cc: Ms. Brandy Myers
Mr. Gary Hendrix
Mr. Neil McKenzie

JLW:jdw

ATTACHMENT 3

JACKSON COUNTY
SOIL AND WATER CONSERVATION DISTRICT
Skyland Services Center
876 Skyland Drive, Suite 5
Sylva, NC 28779
Ph: (828)586-6344, (828)586-5465

July 1, 2022

Mr. Vernon N. Cox
Director, NCDACS
1614 Mail Service Center
Raleigh, NC 27699

Dear Mr. Cox,

I would like to thank you for the time and consideration you took to check on Jackson County Soil and Water Conservation District. Jackson County was fortunate enough to not be disturbed by the storm that devastated some other counties in the State. Our District had very few calls about storm damage. After field visits to the few properties that did have damage, none of the damage qualified for the StRAP program.

Jackson County did have a devastating rain event several weeks ago that caused significant flooding. We would be very interested in looking again for future projects with the STRAP program.

I would like to thank the Commission and all the staff who have put the time and effort into getting this program running and funding available.

Sincerely,

John Wittekind
Jackson Soil and Water Conservation District Chairman

cc: Mr. Cayle Aldridge

MECKLENBURG SOIL & WATER CONSERVATION DISTRICT

June 29,2022

NC Soil and Water Conservation Commission
c/o Mr. Vernon Cox
1614 Mail Service Center
Raleigh, NC 27699

RE: Explanation of decision to not request StRAP funds

Dear Commission Members,

The Mecklenburg Soil and Water Conservation District Board of Supervisors and staff appreciate the opportunity to explain our decision to not request funding through the NC Stream Rehabilitation Assistance Program (StRAP) this spring. Our District did not make this decision without careful consideration and exploration of possible project/partnership opportunities.

It is important for us to first acknowledge that we are very fortunate to operate in a county with a robust storm water program; a program in which the Mecklenburg County Storm Water Operations team works to clear blockages and remove debris in streams throughout unincorporated areas of the county and in major system streams in the city/towns. As such, our need for stream debris removal funds is significantly less than those of other Districts. In addition, our District as well as our county and local municipalities heavily prioritize stream stabilization and restoration. Mecklenburg County also does not have any PL-566 structures and therefore does not have a need to address associated issues.

We were advised that County Storm Water did consider applying for funds but made the decision not to proceed. Our Conservation District Manager is the sole staff person since 2008 and serves as our budget officer as well as urban and agriculture cost share technical advisor. Through her efforts, our urban cost share program, funded by City and County Storm Water Services, continues to thrive and has created new, significant stream bank stabilization opportunities for the District in the Town of Huntersville. She has earned the reputation as their trusted partner. For these reasons we are confident that the decision to forgo the current StRAP funding cycle was reasonable and correct.

The District appreciates the enormous effort and sacrifices undertaken by the Commission and Division to secure the StRAP funding. We will continue to support the Commission's efforts to advocate and educate our legislative representatives on the important work the Soil and Water Conservation Partnership accomplishes for our communities.

Very Sincerely,

Barbara Bleiweis

Barbara Bleiweis
Chair
Board of Supervisors, Mecklenburg Soil and Water Conservation District

SOIL & WATER
CONSERVATION DISTRICT

Montgomery Soil & Water Conservation District
227-D North Main Street ~ Troy, NC 27371 Phone (910)572-2700

July 13, 2022

Mr. Vernon Cox
Director
1614 Mail Service Center
Raleigh, NC 27699

Dear Mr. Cox,

Montgomery SWCD decided not to participate in the StRAP program this year mainly due to the requirement for removing debris out of the 100 year flood plain and the cost associated with this rule. Along with Montgomery SWCD being mainly a rural county, accessing blocked areas along streams will be extremely difficult and perhaps require large machinery to create access for entering and removing debris thus also creating the risk of causing unintended damage to the property. These factors contributed in the district's decision not to participate in the program. If the Division would consider removing the requirement for debris removal out of the 100 year flood plain, Montgomery SWCD would consider participating in the program.

Thank you,

Don Thompson, Chairman
Montgomery SWCD

ATTACHMENT 3 BLUE

SOIL & WATER CONSERVATION

Moore Soil & Water Conservation District
P.O. Box 908,707 Pinehurst Ave., Carthage, N.C. 28327•Phone: (910) 947-5183, ext. 3

8/11/2022

Mr. Cox,

The Moore County District was asked to provide a response/reasoning as to why we did not participate in the 2022 STRAP program. The district spent numerous hours working on the EWP program in years past only to be unable to find a sponsor for the contracts that were submitted. The Moore County Legal Department was hesitant in pursuing funding for the potential contracts even after speaking with a adjoining county that was already participating in EWP. In return we had to drop the sites we had been working on due to lack of finding a sponsor. The sites that were located were eventually cleaned up after meeting with the Division of Transportation and working with them to coordinate removal of debris along bridges. Other sites were simply cleaned up by individual landowners.

We hope that with several surrounding counties participating in the program that this will help us out in working with our county Legal department in letting us take the next step. However, as you know each county is set up differently and thus prevents us from being able to operate exactly like a county adjacent to us. If the STRAP program was set up similarly to the other cost share programs (ACSP, CCAP, AgWRAP, etc.) we would have not had any issues at all submitting and completing contracts.

We hope this helps. Please reach out to us if you have any questions.

Thank you,

Jonathan Russell

Moore County Soil and Water District

Natural Resources Administrator

-Yours for Life-

NORTHAMPTON SOIL AND WATER CONSERVATION DISTRICT
9495 NC HIGHWAY 305 STE 107
JACKSON, N. C. 27845
PHONE: 252-534-2591 EXT. #3

July 15, 2022

Attn: Mr. Vernon Cox
Director, NCDA Division of Soil and Water Conservation
1614 Mail Service Center
Raleigh, NC 27699-1614

Dear Mr. Cox:

Thank you for your inquiry regarding our District's decision not to request funds under the Streamflow Rehabilitation Assistance Program (StRAP). When funding became available, our District Board and staff discussed the decision to apply at our local Board Meetings in February and March. After learning more about the details of the program, there was concern about feasibility regarding the large extent of the particular project area of interest in our county that we considered utilizing StRAP funds for. In the March Q & A session hosted by the Division on February 10th, it was stated that the program did not have enough funds to fund projects of large extent. This detail influenced our decision not to request funding at this time. Additionally, the District was concerned about the time constraints of the program application window. Our District felt that additional time is necessary to gather data and information to apply and request funding, as well as to secure any needed up-front estimated costs.

Because of the extent of the specific project area considered for funding as well as the extent of information needed by the application deadline, the District decided not to request funding at this time. The Northampton County Soil and Water Conservation District extends apologies that funding was not requested on its behalf. We thank you for this opportunity.

Sincerely,

William M Stephenson

William Stephenson, Chairman

Jeff Joyner
Richmond SWCD
123 Caroline Street
Rockingham, NC 28379

Mr. Cox,

We are excited for this new program and the opportunity to clean up our state's streams. We have partnered with the City of Rockingham and were awarded $250,000 to address issues in Hitchcock Creek, which runs right through the middle of Rockingham. We will be meeting with them soon to go over a plan for this project.

We knew that there would be a high number of applications and requests for money, so we decided to treat Hitchcock Creek as the priority for stream rehabilitation in Richmond County and start off only requesting the money we thought was necessary for this project. If more funds come available, we have other smaller stream projects that we can address.

Thanks,

Jeff Joyner Chairman

Jeff Joyner

SAMPSON COUNTY SOIL AND WATER
NEW AGRI. BUILDING
80 COUNTY COMPLEX RD, SUITE 110
CLINTON, NC 28328-4727

July 18, 2022

Mr. John Langdon, Chairman
Soil and Water Conservation Commission
1614 Mail Service Center
Raleigh, NC 27699-1614

Dear Commissioner Langdon,

Sampson SWCD did not apply for funding through the StRAP program. In lieu of this, we decided to continue our working relationship with the Coharie Intra-Tribal Council and Friends of Sampson County Waterways for this funding opportunity. These two entities have received stream debris funding in the past and we did not want to compete against them for funding. Although the district has not been the sponsor for stream debris removal contracts, we have completed the applications, statements of work, maps and request for payments for the Coharie Intra-Tribal Council and Friends of Sampson County Waterway contracts in Sampson County.

Sampson SWCD believes that our established relationships in the county would be the best way to apply for funding for the STRAP program. We understand the Commission's interests in all districts applying for funds, but we believe assisting the entities is the best way to have our District involved in the county.

Sincerely,

Henry E. Moore, III

Scotland Soil and Water
517 Peden Street
Laurinburg, NC 28352
(910) 277-2433

June 22, 2022

To Whom It May Concern:

The Scotland County Soil and Water did not request any STRAP money due to only having one employee to take on all the responsibilities. We had applied for EWP and the county pretty much got all the major flooding issues taken care of with that money. It is hard to have a one-person office trying to allocate Ag Cost Share funds and AGWRAP funds. The day-to-day operations have to take on in the office and also help out with the Federal Funding. We saw where we did not need to ask for this funding.

Bryan Hagler
Scotland Soil and Water Chairman

SWAIN SOIL & WATER CONSERVATION DISTRICT

USDA Service Center
100 Brendle Street
Bryson City, NC 28713
828.488.2684 ext. 3

June 14, 2022

Mr. Vernon N. Cox
Division of Soil and Water Conservation
1614 Mail Service Center
Raleigh, NC 27699

Dear Mr. Cox,

We are excited to see new funding available to Districts, like the StRAP program. We advertised the program through our local newspaper, social media, as well as contacting a few landowners directly. The District did not receive any interest.

With the development of ranking criteria, a staff member to oversee the program, and other Districts participating to work out the kinks, we will continue to support and promote the program as it is vital to preserving the natural flow of our mountain streams.

Sincerely,

Mitchell Jenkins

Mitchell Jenkins, Chair
Swain Soil & Water Conservation District

Ty Fleming, Director/Technician
tfleming@tyrrellcounty.net

Tyrrell Soil and Water Conservation District

155B LA Keiser Drive - Columbia, NC 27925 - Phone (252) 796-3701 x3 - www.tyrrellswcd.org

July 21,2022

Vernon Cox/NCSWCD Commission
1614 Mail Service Center
Raleigh, NC 27699-1614

Dear Mr. Cox/Members of the Commission,

I would first like to say that we commend you on the implementation of the StRAP program. Here on the coast our highest elevation is 17' in Tyrrell, so we rely highly on our drainage systems to prevent flooding of residential as well as agricultural land. It seems to be a wonderful idea to try and clear out debris from waterways as a preventative maintenance measure to encourage good stream flow, and allow storm water run-off. The funding post-storm is also very appreciated in helping restore the drainage and flow of our waterways.

In response to your letter of inquiry from June 2022, asking why Tyrrell SWCD did not request any StRAP funding, this is our reason. We received around 1.2 million dollars for debris removal and sediment removal due to Hurricane Matthew in 2016. From the stream debris part of that contract we were able to clear approximately 30 water ways at just under 100,000 linear feet. The sediment removal part of that contract is still in progress due to all of the CAMA/Army Corps/Regulatory Agency permits and wetland regulations, and are finally hoping to begin physical work in the Fall of this year. We have just finished in February the contract from funding for Hurricane Dorian in 2019. This contract allowed us to clear another approximate 30 streams just under 100,000 linear feet.

In essence our reasoning for not applying for any of the StRAP funds is because of having just completed removing most of the debris clogging our waterways from Hurricane Dorian funds in the first part of this year, but also trying to finish the sediment removal portion of the Hurricane Matthew funding. We appreciate all that the division and commission do for the fine state of North Carolina, but everything that you do on a local level as well. We hope that this type of program will be available in the future.

Sincerest Regards,

Carl Jones, Chairman
Tyrrell SWCD

Vance County Soil & Water Conservation District

Strap Funding Letter

Dear Mr. Cox & the Soil and Water Division,

We are sorry to say that the Vance SWCD did not apply for any of the Strap funding that was available this year. We diligently spread the word around the county to our board members, local farmers, previous contract holders and the general public. Unfortunately, we did not have anyone reach back out to us about acquiring any of the available funds. From what I gathered when I was telling people about the Strap program, most did not know much about it or what it was. We were about to tell people about what it is and how it could be beneficial. So in the future if there is any more Strap funding that becomes available, I hope that we now have educated the local people enough to have some serious inquiries about receiving some funding.

Thank you,

Vance County SWCD

Association Report to the Commission

August 16, 2022

2022 Conservation Farm Family

In July, we visited the CFF entries with a team of judges. The farms visited were great examples of conservation implementation. H&H Farms of Macon County was selected as this year's recipient of the NC Conservation Farm Family award. Runner up farm, Bill and Sam Howard of Davie County also exhibited sound conservation farming.

2023 Association Election

At the Annual Meeting in January 2023, we will be electing a 2nd Vice President and Commission member both from the mountain region. We will also be electing a TRC member from piedmont regions. Nominations are due to the Area chairs 10 days prior to the Area's Fall meeting.

2023 Annual Meeting

Planning for the 2023 Annual Meeting started. The District Ops group with the Division met onsite 8/4 to tour the facility and discuss the agenda. As part of the Annual Meeting, we are planning to hold one of the 6-hour Basic Training for Soil and Water Conservation Districts training in conjunction on the Saturday, January 7, prior to the Sunday start.

Basic Training for Soil and Water Conservation Supervisors

The 3 regional trainings will be held in February of 2023. The dates will be the 3 Tuesdays that do not conflict with the National NACD meeting.

State Fair Booth

The Association is working on the new layout for the fair booth that is housed in the new Bob Stanfield Environmental Center on the State Fairgrounds. There is anticipated change to allow patrons to enter Gate 7, which is close to the Center. This will likely increase traffic in that area.

Southeast NACD Meeting

The SENACD meeting was held July 17-19, 2022, in San Juan Puerto Rico in conjunction with NACD's Summer Meeting. North Carolina had a delegation of 20 representatives there.

North Carolina Envirothon

The Wake County School's team Sub-Chronic Exposure from Enloe High School represented us at the NCF Envirothon in Ohio July 24-31. At the time of this report, the competition was not complete. We will update you on the final results.

ATTACHMENT 5

ASSOCIATION OF SOIL & WATER CONSERVATION DISTRICTS

Association Executive Director's

Report to the Commission

August 16, 2022

Areas Report

The Areas have started preparing their agendas for the Fall meetings. These will start in October.

2022 Legislative Items

We did make some contacts about getting the CCAP $1.5 million changed to recurring. We were unsuccessful, but plan to re-address at the start of long session in January 2023.

National Executive Directors Affiliation

Presently there are 41 other states that have EDs like our Association. We have worked with NACD to become recognized as an affiliation. This will provide us an advisory seat on the NACD RPGs and various committees. It will also allow us to work collectively to enhance conservation nationally and increase support for state conservation Districts.

State FFA Convention

I was invited to assist and participate in this year's convention held in Raleigh. It was well attended and the caliper of young adults there was impressive. We have started preliminary conversation about the upcoming State Soils Judging competition for this year. I appreciate the relationship we have NC FFA.

Natural Resources Conservation Service (NRCS)

North Carolina - The Update

Overview

FY 2022 Farm Bill conservation financial assistance programs, special funding pools and initiatives in North Carolina includes:

- $26,394,465.00 has been allocated for FY2022 to fund applications received during the current sign up, 411 contracts have been obligated for a total of $19,662,023.49 at this time. NC has received an additional $3 million to provide financial assistance to additional landowners. These funds will be focused on funding additional SDA applications.
- $500,000.00 has been allocated to support the Urban Conservation Initiative. Of the allocated dollars, 50 applications have been selected for contracts totaling $474,464.00.
- $1,579,050.00 has been allocated to support the continued effort of Climate Smart Agriculture and Forestry in the 53 designated counties. Of the funds allocated, we will provide financial assistance to producers in the amount of $1,396,446.38.
- Currently 173 producers have been awarded contracts for a total of $7,604,708.45 to support New & Beginning Farmers and Ranchers in the state.
- Currently $1,556,525.16 has been contracted to support Socially Disadvantaged Farmers and Ranchers (SDA) in the state. An additional $2,800,000.00 has been used to pre-approve additional applications to support Socially Disadvantage Producers. This will bring our obligation assistance to SDA producers to $4,356,525.00
- $1,000,000.00 allocated to Long-leaf Pine Funding Pools, $1,263,859.60 has been contracted with the extra funding coming from other pools to meet the demand.
- $979,050.00 allocated for the Conservation Incentive Contracts (CIC). At this time, we have selected $256,800.00 in applications to receive financial assistance.
- $13,996,288.07 has been allocated to fund applications for the Conservation Stewardship Program (CSP). NC largest CSP allocation ever received. Applications have been selected for funding and are working towards obligating those funds at this time.
- $ 2,801,120 has been allocated for The Agricultural Conservation Easement Program (ACEP) WRE and $3,083,497 or ACEP-ALE

Program Updates

Conservation Practice Adoption Motivation Survey

The Conservation Practice Adoption Motivations Survey (CPAMS) is an ongoing joint project between the National Agricultural Statistics Service (NASS) and the Natural Resources Conservation Service (NRCS) aimed at assessing the adoption rates of different conservation practices. There are four different conservation categories which are surveyed:

- crop practices
- grazing practices
- confined livestock practices
- forestry practices

Each category will have a questionnaire that has been designed to gather information specific to the practices involved in each category. Survey data will be used to guide the implementation of NRCS programs in the future. Responses will be submitted by Aug. 19, 2022. Data will be available Sept. 15, 2022 and will guide implementation of NRCS Programs in the future.

Conservation Innovation Grants

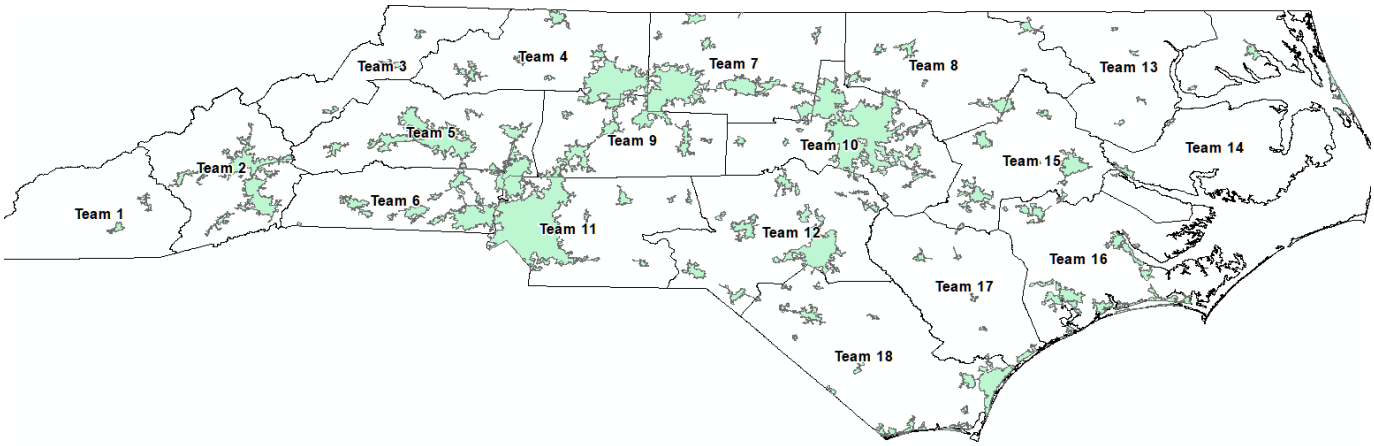
The U.S. Department of Agriculture (USDA) announced on July 25, 2022 it will invest $25 million this year for the Conservation Innovation Grants (CIG) On-Farm Conservation Innovation Trials program. For FY 2022, to ensure that equity is incorporated in the planning and delivery of On-Farm Trials, at least 10% of the total funds available for On-Farm Trials are set aside for proposals that entirely benefit historically underserved (HU) producers. Applications for On-Farm Trials are being accepted now through September 22, 2022. Private entities whose primary business is related to agriculture, nongovernmental organizations with experience working with agricultural producers, and non-federal government agencies are eligible to apply. On-Farm Trials projects feature collaboration between NRCS and partners to implement on-the-ground conservation activities and then evaluate their impact. Incentive payments are provided to producers to offset the risk of implementing innovative approaches.

Urban Agriculture Initiative

To date, NC NRCS has received 72 applicants across the North Carolina, 50 of them receiving contracts. The applicability was based on the 2017 census data for "Urban Clusters and "Urbanized Areas". High tunnel systems were the sole practice that was applied for. However, the following practices can also fall under the Urban Agriculture Initiative:

- Composting Facility
- Conservation Cover
- Conservation Crop Rotation
- Critical Area Planting
- Wildlife Habitat Planting
- Roof Runoff Structure
- Irrigation System, Micro-Irrigation
- Heavy Use Area Protection
- Storm-water Runoff
- Nutrient Management
- Pest Management Conservation System

FY 2022 Urban Conservation Priority Map



COVID Impacts

With the rise increase in COVID cases, the need for all travel is being carefully considered. NC NRCS can only travel if the mission is critical and must be approved. Travel to and from areas with a High Community Level carries a particular hazard and should be avoided. Mask wearing is strongly encouraged for these events and physical distancing is required in accordance with the USDA Workforce Safety Plan.

Contacts:
State Conservationist—Timothy A. Beard
(Tel) 919.873.2100
State Public Affairs—Joshua J. Hammond
(Tel) 919.873.2103
(Email) Joshua.Hammond@usda.gov
WWW.NC.NRCS.USDA.GOV

Summary of Nominations for Supervisor Appointment 8/16/2022

District	Name of Nominee	Replacing	Term	Reason for Vacancy
Alexander	Bryant Chapman	Bill Chapman	Elected (18-22)	Passed Away
Gaston	William Ward	Robert G. Cloninger III	Elected (18-22)	Resignation - March 15, 2022
Jones	Samantha Bennett	Robert Davenport Jr.	Elected (18-22)	Passed Away
New Hanover	Thomas Boland	William Hart	Appointed (18-22)	Passed Away
Richmond	John F. McInnis	Elizabeth D. Davenport	Elected (18-22)	Resignation - June 12, 2022

Wiklund, Helen

From: noreply@fs3.formsite.com on behalf of Formsite <noreply@fs3.formsite.com>
Sent: Monday, July 25, 2022 1:45 PM
To: Wiklund, Helen
Subject: [External] Nomination for Supervisor Appointment Result #12555010

Reference #	12555010
Status	Complete
Login Username	ptbowman@alexandercountync.gov
Login Email	ptbowman@alexandercountync.gov
Appointment or Reappointment	New Appointment
District:	Alexander
Unexpired/Expired Term of Supervisor:	Bill Chapman
Elected/Appointed	Elected
Term of Office	December 2018 to November 2022
Name of Nominee:	Bryant Chapman
Nominee Mailing Address:	1971 Little River Church Road
City:	Taylorsville
State:	NC
Zipcode:	28681
Nominee Email Address:	bryantchapman21@gmail.com

Nominee Mobile or Home Phone:	828-514-0526
Age	27
Occupation:	Farmer
Education:	NC State Ag Institute - Associates in Livestock and Poultry Management
Positions of leadership NOW held by nominee:	Farmland Pres. Board, NC Jersey Breeder Board of Directors, NC Dairy Advocate Board, Discipleship Training Leader, Sunday School Teacher, Youth Leader
Former Occupations or Positions of Leadership Contributing to Nominee's qualifications:	DFA Young Cooperators Steering Committee
Other pertinent information:	Owner Chapman Cattle Company, lifelong Alexander Co, grandfather Bill Chapman served 30 years on Board, family has participated in cost share programs
If appointed, I am willing to attend Basic Training for Soil & Water Conservation District Supervisors within the first year after appointment?	Yes
The program and purpose of the soil and water conservation district been explained to me?	Yes
I am willing to attend and participate in (check all that apply)?	• Local District Meetings • Area Meetings • State Meetings
Nominee Signature:	See attached

Typed/printed name:	Bryant Chapman
Date:	7/21/22
Printed certification signature page for nominee. Only necessary if signature box is not signed above.	Bryant_Chapman_signature_page_072122.pdf (236 KB)
District Board Chair Signature (or Vice Chair if Chair is being nominated):	see attached
Typed/printed name:	Myles Payne
Date:	7/21/22
Printed certification signature page for board approval. Only necessary if signature box is not signed above.	Chairman_Myles_Payne_signature_page_072122.pdf (351 KB)
Is the nominee actively engaged in, or recently retired from, an agricultural operation?	Yes
Please explain the nominee's connection to agriculture:	Bryant grew up on a farm and now owns his own company (Chapman Cattle Company) that offers meat straight from the farm to the consumer. His family has poultry houses and a dairy farm as well as beef cows.
Number of current District Supervisors actively engaged in, or recently retired from, an agricultural operation.	3
Will the appointment provide an opportunity to engage a segment of agriculture not currently being served?	Yes

Please describe how the nominee improves the ag diversity of the board:	Since Bryant sells meat directly to individuals, he has knowledge of the consumer side of agriculture and might have more connections with smaller agriculture groups.
Will the appointment bring new leadership skills to the board?	Yes
Please describe the new leadership skills the nominee brings to the board:	Since Bryant sells meat directly to customers, he has knowledge of marketing, publicity, etc. that will be beneficial to the District.
Will the appointment strengthen the political connection/influence of the district, especially at the county level?	Yes
Please describe the new advocacy skills the nominee brings to the board:	Bryant has served on several Agriculture Boards already and will be willing to work with county groups as needed.
Will the appointment provide representation from a portion of the county not currently represented?	No
Will the appointment improve opportunities to work with non-traditional partners?	No
Will the appointment improve the make-up of the board from an agricultural/nonagricultural perspective?	No
Will the appointment improve the diversity of the board?	No
Has the nominee shown past involvement in an organization beyond the local level?	Yes
Describe how the nominee has been involved in an organization beyond the local level:	Bryant has served on the NC Jersey Breeders Board of Directors, NC Dairy Advantage Board, and the DFA Young Cooperators Steering Committee.
Will the appointment strengthen the District's opportunity to raise funds?	Yes

Please describe how the appointment strengthens the District's opportunity to raise funds?	Since Bryant owns and runs his own business, he understands budgets and has several local connections that can be beneficial to the District.
Will the appointment strengthen the District's education, marketing, and outreach efforts?	Yes
How will the appointment strengthen the District's education, marketing, and outreach efforts?	Since Bryant sells meat directly to customers, he has knowledge of marketing, publicity, etc. that will be beneficial to all of the District's programs.
Last Update	2022-07-25 13:45:00
Start Time	2022-07-25 13:39:51
Finish Time	2022-07-25 13:45:00
IP	204.84.168.116
Browser	Chrome
Device	Desktop
Referrer	https://fs3.formsite.com/res/formLoginReturn

Supervisor Appointment Nomination

Your information was saved.

DIVISION OF SOIL AND WATER CONSERVATION
North Carolina Department of Agriculture & Consumer Services
1614 Mail Service Center • Raleigh, NC 27699-1614
919.707.3770 • www.nagr.gov/swc/

NOMINATION FOR APPOINTMENT OF SUPERVISOR

Keep original for District file

The supervisors of the Soil and Water Conservation District have nominated the individual below for APPOINTMENT as a district supervisor in accordance with N.C.G.S. 139-7 for the term of office shown below.

Appointment or Reappointment *
- (•) New Appointment
- ( ) Reappointment

District: * Alexander

Unexpired/Expired Term of Supervisor: * Bill Chapman

Elected/Appointed *
- (•) Elected
- ( ) Appointed

Term of Office *
- (•) December 2018 to November 2022
- ( ) December 2020 to November 2024
- ( ) December 2022 to December 2026

Name of Nominee: *	Nominee Mailing Address: *	City: *	State: *	Zipcode: *
Bryant Chapman	1971 Little River Church Road	Taylorsville	NC	28681

Nominee Email Address:	Nominee Mobile or Home Phone: *	Nominee Business Phone:	Age *
bryantchapman21@gmail.com	828-514-0526		27

Occupation: *
Farmer

Education: *
NC State Ag Institute - Associates in Livestock and Poultry Management

Positions of leadership NOW held by nominee:
Farmland Preservation Board, NC Jersey Breeder Board of Directors, NC Dairy Advocate Board, Discipleship Training Leader, Sunday School Teacher, Youth Leader

157/150 characters

Former Occupations or Positions of Leadership Contributing to Nominee's qualifications:
DFA Young Cooperators Steering Committee

40/150 characters

Other pertinent information:
Owner Chapman Cattle Company, lifelong Alexander Co, grandfather Bill Chapman served 30 years on Board, family has participated in cost share programs

150/150 characters

Certification by Nominee

If appointed, I am willing to attend Basic Training for Soil & Water Conservation District Supervisors within the first year after appointment? *
- [x] Yes
- [ ] No
- [ ] Attended previously (enter years of attendance below)

The program and purpose of the soil and water conservation district been explained to me? *
- (•) Yes
- ( ) No

I am willing to attend and participate in (check all that apply)? *
[x] Local District Meetings [x] Area Meetings [x] State Meetings

I hereby certify that the above information is true and accurate.

Nominee Signature: Bryant Chapman

Typed/printed name: Bryant Chapman

Date: 7/21/22

clear

Optional Attachments:

Printed certification signature page for nominee. Only necessary if signature box is not signed above.

Choose File No file chosen

Certification by Board of Supervisors

I hereby certify that the board of supervisors considered the Guiding Principles for Supervisor Nomination for Appointment when selecting the above supervisor candidate for nomination. I also certify that this nomination has been considered and approved at an official meeting of the board of supervisors and entered in the official minutes of the board.

District Board Chair Signature (or Vice Chair if Chair is being nominated): **Typed/printed name:** **Date:**

ATTACHMENT 7A

Nomination For Appointment of Supervisor

Myles Payne 7/21/22

Myles Payne

clear

Optional Attachments:

Printed certification signature page for board approval. Only necessary if signature box is not signed above.

Choose File No file chosen

Resignation letter (only needed if vacancy is due to resignation).

Choose File No file chosen

Optional additional documentation (e.g. candidate resume').

Choose File No file chosen

Guiding Principles for Supervisor Appointment

A vacancy on a district board of supervisors presents a unique opportunity for that board. The board should use this opportunity to nominate for appointment a supervisor candidate who can provide knowledge and leadership to improve the district's ability to address more of the natural resource needs for more of the constituents of the district. The NC Soil and Water Conservation Commission approved the following guiding principles to guide local soil and water conservation districts when evaluating candidates for appointment and recommending supervisors for reappointment. It is suggested that the local Board consider these recommendations when nominating a supervisor to the Commission. Please enter below information to support the nomination relative to the Guiding Principles.

1. Knowledge of Agricultural Production: Because agriculture is North Carolina's number one industry and because of the importance of soil and water conservation to production agriculture, the Commission strongly recommends that at least two members of each district board be actively engaged in, or recently retired from, an agriculture operation. Examples of an "agriculture operation" include those operations that are eligible to participate in the Agricultural Cost Share Program, or fall within the definition of "Agriculture," as provided in N.C.G.S. § 106-581.1.

Is the nominee actively engaged in, or recently retired from, an agricultural operation? * ⓘ

- ◉ Yes
- ○ No

Please explain the nominee's connection to agriculture:

Bryant grew up on a farm and now owns his own company (Chapman Cattle Company) that offers meat straight from the farm to the consumer. His family has poultry houses and a dairy farm as well as beef cows

Number of current District Supervisors actively engaged in, or recently retired from, an agricultural operation. *

3

2. Agricultural Diversity: North Carolina agriculture is growing increasingly diverse. Often, non-traditional agricultural operations require focused outreach from leaders they believe understand their unique needs.

Will the appointment provide an opportunity to engage a segment of agriculture not currently being served? *

- ◉ Yes
- ○ No

Please describe how the nominee improves the ag diversity of the board:

Since Bryant sells meat directly to individuals, he has knowledge of the consumer side of agriculture and might have more connections with smaller agriculture groups.

3. Leadership: An effective board of supervisors requires motivated members with strong leadership skills and diverse knowledge of natural resource needs in the district.

Will the appointment bring new leadership skills to the board? *

- ◉ Yes
- ○ No

Please describe the new leadership skills the nominee brings to the board:

Since Bryant sells meat directly to customers, he has knowledge of marketing, publicity, etc. that will be beneficial to the District.

4. Political Advocacy: A strong district is led by supervisors who are effective at approaching elected and appointed officials to advocate for resources and policies needed to meet the conservation priorities in the district.

Will the appointment strengthen the political connection/influence of the district, especially at the county level? *

- ◉ Yes
- ○ No

Please describe the new advocacy skills the nominee brings to the board:

Bryant has served on several Agriculture Boards already and will be willing to work with county groups as needed.

5. Geographic Representation: Boards often benefit from having supervisors who represent the major geographic regions of the district.

Will the appointment provide representation from a portion of the county not currently represented? *

- ○ Yes
- ◉ No

6. Partnership Opportunity: Many districts have built relationships with other organizations and non-traditional partners (e.g., land trusts, forest landowners, grant making organizations, environmental advocacy groups) who share interest in natural resource conservation.

Will the appointment improve opportunities to work with non-traditional partners? *

- ○ Yes
- ◉ No

7. Non-Agricultural Representation: Although most districts have traditionally focused assistance to agricultural land users, districts have authority and programs available to work with all land uses to address natural resource concerns.

Will the appointment improve the make-up of the board from an agricultural/nonagricultural perspective? *

- ○ Yes
- ◉ No

8. Diversity: Often a district can improve its ability to reach traditionally underserved groups and its overall public support by increasing the diversity of its board.

Will the appointment improve the diversity of the board? *

- ○ Yes
- ◉ No

9. Involvement in other organizations: One key to a successful district is the willingness of the district supervisors to study and learn from the successes of other districts and other organizations. It is often instructive to observe a supervisor candidate's involvement in other organizations (e.g., trade groups, civic clubs, church).

Has the nominee shown past involvement in an organization beyond the local level? *

- ◉ Yes
- ○ No

Describe how the nominee has been involved in an organization beyond the local level:

Bryant has served on the NC Jersey Breeders Board of Directors, NC Dairy Advantage Board, and the DFA Young Cooperators Steering Committee.

10. Fund Raising: The success of a district's programs will often depend on its ability to gain sponsorship and support from private businesses and individuals.

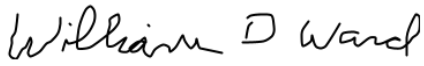
Will the appointment strengthen the District's opportunity to raise funds? *

Please describe how the appointment strengthens the District's opportunity to raise funds?

◉ Yes

Nomination For Appointment of Supervisor

Reference #	12662035
Status	Complete
Login Username	Annabelle.Thomas@gastongov.com
Login Email	Annabelle.Thomas@gastongov.com
Appointment or Reappointment	New Appointment
District:	Gaston
Unexpired/Expired Term of Supervisor:	Robert Cloninger
Elected/Appointed	Elected
Term of Office	December 2018 to November 2022
Name of Nominee:	William (Bill) Ward
Nominee Mailing Address:	102 Lone St.
City:	Stanley
State:	NC
Zipcode:	28164
Nominee Email Address:	willyace@twave.net
Nominee Mobile or Home Phone:	704-880-0705
Age	59
Occupation:	Self employed - Mr. Bill's S.T.E.M. Education Classed and Bill Ward Photography
Education:	high school, some college
Positions of leadership NOW held by nominee:	Men's Ministry Leader, Boy's ministry leader
Former Occupations or Positions of Leadership Contributing to Nominee's qualifications:	Soil test/vent/monitor wells. Sports league/team org/men's leader/drama dir, 30yr self emp/own current bus.23/17yr, mrktg/promo,hiring/mgmnt/ trng exp.
If appointed, I am willing to attend Basic Training	Yes

for Soil & Water Conservation District Supervisors within the first year after appointment?	
The program and purpose of the soil and water conservation district been explained to me?	Yes
I am willing to attend and participate in (check all that apply)?	• Local District Meetings • Area Meetings • State Meetings
Nominee Signature:	
Typed/printed name:	William D.Ward
Date:	7/19/2022
District Board Chair Signature (or Vice Chair if Chair is being nominated):	
Typed/printed name:	Esther Scott
Date:	7/19/2022
Resignation letter (only needed if vacancy is due to resignation).	Robert_Cloninger-Resignation_Letter.msg (119 KB)
Is the nominee actively engaged in, or recently retired from, an agricultural operation?	No
Number of current District Supervisors actively engaged in, or recently retired from, an agricultural operation.	1
Will the appointment provide an opportunity to engage a segment of agriculture not currently being served?	Yes
Please describe how the nominee improves the ag diversity of the board:	Candidate has a large & diverse network throughout the communities in Gaston County and is already actively engaging this network regarding soil and water conservation.

Will the appointment bring new leadership skills to the board?	Yes
Please describe the new leadership skills the nominee brings to the board:	Candidate has a wide array of experience in management, training, organization, planning and leadership within community, school and church organizations spanning from 1990 to current day.
Will the appointment strengthen the political connection/influence of the district, especially at the county level?	Yes
Please describe the new advocacy skills the nominee brings to the board:	With regard to the aforementioned wide network, candidate will and has already begun to initiate conversations with leadership, local, county and State, through regarding soil and water conservation & the needs of the dept. of natural resources.
Will the appointment provide representation from a portion of the county not currently represented?	No
Will the appointment improve opportunities to work with non-traditional partners?	Yes
Please describe how the appointment improves partnership opportunities for the district:	Candidate has a large & diverse network throughout the communities in Gaston County and is already actively engaging this network regarding soil and water conservation.
Will the appointment improve the make-up of the board from an agricultural/nonagricultural perspective?	Yes
Describe how the appointment improves the non-ag representation for the board:	Candidate has a large & diverse network throughout the communities in Gaston County and is already actively engaging this network regarding soil and water conservation.
Will the appointment improve the diversity of the board?	Yes

Please describe how the appointment improves the diversity of the board:	Appointment has business and educational ties which may be less aware of how their involvement can be of value, his involvement and advocacy will reach and therefore represent a large sector of the population that may not otherwise know how to utilize their input.
Has the nominee shown past involvement in an organization beyond the local level?	Yes
Describe how the nominee has been involved in an organization beyond the local level:	Candidate has a large & diverse network throughout the communities in Gaston County and is already actively engaging this network regarding soil and water conservation.
Will the appointment strengthen the District's opportunity to raise funds?	Yes
Please describe how the appointment strengthens the District's opportunity to raise funds?	Candidate has a large & diverse network throughout the communities in Gaston County and is already actively engaging this network regarding soil and water conservation.
Will the appointment strengthen the District's education, marketing, and outreach efforts?	Yes
How will the appointment strengthen the District's education, marketing, and outreach efforts?	Within the businesses & organizations candidate has been involved, marketing, education & outreach have been critical to the success of each and implemented vigorously & professionally by the candidate.
Does the District wish to provide other justification in support of the nomination? If so, enter here:	William (Bill) Ward is and educator, community leader and connected politically in our County. Bill has expressed great interest since finding out about our need to fill and unexpired term position. He has actively participated in Board meetings and has had numerous conversations with both board members and staff. He is also running for and open position in the November election. Although this appointment finishing out an unexpired elected term position does not

	satisfy the minimum recommended 2 agriculture related positions that the Commission seeks, we are fortunate to have on our Board equivalent related experience: David Freeman, PE-Retired from Gaston SWCD in 2020 with 31 years of service, including active military. Roger Hurst, PE-Current engineer with Duke Energy and member of Gaston County Planning Board and Environmental Review Advisory Board. Danon Lawson - Current Stormwater Administrator for Gastonia and previous Gaston SWCD staff 15.5 years and NRCS staff 3.5 years. The Board unanimously recommends William (Bill) Ward for this unexpired elected position.
Last Update	2022-08-03 15:20:15
Start Time	2022-08-03 15:15:28
Finish Time	2022-08-03 15:20:15
IP	207.235.60.108
Browser	Chrome
Device	Desktop
Referrer	https://fs3.formsite.com/res/formLoginReturn

From: Robert Cloninger
To: Dean Parker; Danon Lawson; David Freeman; Esther Scott; Rick McSwain; Roger Hurst; Annabelle Thomas; Will Wier
Subject: {External} Resignation Immediately
Date: Tuesday, March 15, 2022 10:49:08 PM

I want to inform you all that I will be resigning immediately from the Soil and Water Board. Annabelle please see that this is processed by the end on 03/16/2022.

I wish you all the best

Thank You,

Robert G. Cloninger III

Wiklund, Helen

From: noreply@fs3.formsite.com on behalf of Formsite <noreply@fs3.formsite.com>
Sent: Wednesday, July 27, 2022 9:20 AM
To: Wiklund, Helen
Subject: [External] Nomination for Supervisor Appointment Result #12661515

Reference #	12661515
Status	Complete
Login Username	bdeaver@jonescountync.gov
Login Email	bdeaver@jonescountync.gov
Appointment or Reappointment	New Appointment
District:	Jones
Unexpired/Expired Term of Supervisor:	Robert Davenport Jr.
Elected/Appointed	Elected
Term of Office	December 2018 to November 2022
Name of Nominee:	Samantha Bennett
Nominee Mailing Address:	256 River Rd.
City:	Trenton
State:	NC
Zipcode:	28585
Nominee Email Address:	wigginss0211@gmail.com

Nominee Mobile or Home Phone:	2525216114
Age	31
Occupation:	Jones County 4-H Agent
Education:	Master of Social Work
Positions of leadership NOW held by nominee:	Creating and implementing all Jones County 4-H camps and programming.
If appointed, I am willing to attend Basic Training for Soil & Water Conservation District Supervisors within the first year after appointment?	Yes
The program and purpose of the soil and water conservation district been explained to me?	Yes
I am willing to attend and participate in (check all that apply)?	• Local District Meetings • Area Meetings • State Meetings
Typed/printed name:	Samantha Bennett
Date:	7-26-22
Printed certification signature page for nominee. Only necessary if signature box is not signed above.	Capture2.PNG (26 KB) *I hereby certify that the above information is true and accurate.* Nominee Signature: 
Typed/printed name:	Samual Davis
Date:	7-26-22

Printed certification signature page for board approval. Only necessary if signature box is not signed above.	Capture.PNG (28 KB) Certification by Board of Supervisors *I hereby certify that the board of supervisors considered the Guiding Principles for Supervisor nomination. I also certify that this nomination has been considered and approved at an offici board.* **District Board Chair Signature (or Vice Chair if Chair is being nominated):** 
Is the nominee actively engaged in, or recently retired from, an agricultural operation?	Yes
Please explain the nominee's connection to agriculture:	Nominee is Jones County's 4H agent.
Number of current District Supervisors actively engaged in, or recently retired from, an agricultural operation.	3
Will the appointment provide an opportunity to engage a segment of agriculture not currently being served?	Yes
Please describe how the nominee improves the ag diversity of the board:	Nominee improves the ag diversity of the board by her knowledge in agriculture. Nominee comes from a farming family and has been around it her whole life.
Will the appointment bring new leadership skills to the board?	Yes
Please describe the new leadership skills the nominee brings to the board:	Nominee will be a great leader for the board with her background in agriculture and being the 4H agent in the county. Nominee is very knowledgeable when it comes to livestock and agriculture.
Will the appointment strengthen the political connection/influence of the district, especially at the county level?	Yes

Please describe the new advocacy skills the nominee brings to the board:	Nominee is very involved with the kids in the Jones county school system. She is also involved with the farmers in the county. She has a lot of knowledge when it comes to agriculture and livestock.
Will the appointment provide representation from a portion of the county not currently represented?	Yes
Describe how the appointment improves the geographic representation for the board:	Nominee is on the separate side of the county than the other board members. She will be a good representation for the board on that side of the county.
Will the appointment improve opportunities to work with non-traditional partners?	Yes
Please describe how the appointment improves partnership opportunities for the district:	Nominee works with the NC extension office.
Will the appointment improve the make-up of the board from an agricultural/nonagricultural perspective?	Yes
Describe how the appointment improves the non-ag representation for the board:	Nominee will get kids involved in agriculture opportunities as well as others from the community.
Will the appointment improve the diversity of the board?	Yes
Please describe how the appointment improves the diversity of the board:	Nominee will be the only female on the board.
Has the nominee shown past involvement in an organization beyond the local level?	Yes
Describe how the nominee has been involved in an organization beyond the local level:	Nominee is involved in 4H and all agriculture within the NC extension office.
Will the appointment strengthen the District's opportunity to raise funds?	Yes
Please describe how the appointment strengthens the District's opportunity to raise funds?	As the 4H agent her proven methods for fundraising will be an asset to the district.

Will the appointment strengthen the District's education, marketing, and outreach efforts?	Yes
How will the appointment strengthen the District's education, marketing, and outreach efforts?	Nominee is very knowledgeable in agriculture and livestock. She will reach people that we might not would have reached.
Does the District wish to provide other justification in support of the nomination? If so, enter here:	Nominee comes from a farming background and grew up around agriculture her whole life.
Last Update	2022-07-27 09:20:05
Start Time	2022-07-27 08:47:00
Finish Time	2022-07-27 09:20:05
IP	65.144.214.2
Browser	Chrome
Device	Desktop
Referrer	https://fs3.formsite.com/res/formLoginReturn

From: noreply@fs3.formsite.com on behalf of Formsite
To: Wiklund, Helen
Subject: [External] Nomination for Supervisor Appointment Result #12699931
Date: Wednesday, August 3, 2022 2:43:56 PM

Reference #	12699931
Status	Complete
Login Username	drharrison@nhcgov.com
Login Email	drharrison@nhcgov.com
Appointment or Reappointment	New Appointment
District:	New Hanover
Unexpired/Expired Term of Supervisor:	William Hart
Elected/Appointed	Appointed
Term of Office	December 2018 to November 2022
Name of Nominee:	Thomas Boland
Nominee Mailing Address:	379 Whisper Park Ct
City:	Wilmington
State:	NC
Zipcode:	28411
Nominee Email Address:	tom.boland78@gmail.com
Nominee Mobile or Home Phone:	1-802-598-1539
Age	62
Occupation:	Self employed consultant helping companies to improve their procurement function
Education:	Bachelor of Science Degree in Forestry from the University of Washington. Additional classes taken after graduation to strengthen by business knowledg
Positions of leadership NOW held by nominee:	Vice Chair Wilmington Tree Commission, Assoc. Supervisor New Hanover County SWCD, Member of Eagles Island Task

	Force, Volunteer Northside Food Coop
Former Occupations or Positions of Leadership Contributing to Nominee's qualifications:	Senior Procurement Manager - Sustainable crops to support food production, Work w/ farmers, processors & growers to implement Sustainable practices
Other pertinent information:	My interest is to help NHC protect and improve the soil & water by utilizing my background to bring groups together to find common ground.
If appointed, I am willing to attend Basic Training for Soil & Water Conservation District Supervisors within the first year after appointment?	Yes
The program and purpose of the soil and water conservation district been explained to me?	Yes
I am willing to attend and participate in (check all that apply)?	• Local District Meetings • Area Meetings • State Meetings
Typed/printed name:	Thomas Boland
Date:	8/3/2022
Printed certification signature page for nominee. Only necessary if signature box is not signed above.	Tom_Boland_signature_2022.jpg (10 KB)
Typed/printed name:	Sue Hayes
Date:	8/3/2022
Printed certification signature page for board approval. Only necessary if signature box is not signed above.	Sue_Hayes_signature_2022.jpg (5 KB)
Optional additional documentation (e.g, candidate resume').	ThomasBolandResume.pdf (137 KB)
Is the nominee actively engaged in, or recently retired from, an	No

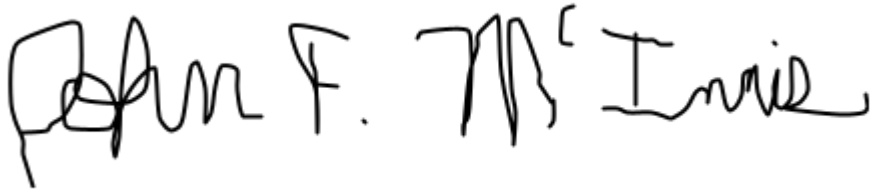
agricultural operation?	
Number of current District Supervisors actively engaged in, or recently retired from, an agricultural operation.	2
Will the appointment provide an opportunity to engage a segment of agriculture not currently being served?	Yes
Please describe how the nominee improves the ag diversity of the board:	Forestry knowledge from education background.
Will the appointment bring new leadership skills to the board?	Yes
Please describe the new leadership skills the nominee brings to the board:	Connectivity to Wilmington Tree Commission as well as business skills.
Will the appointment strengthen the political connection/influence of the district, especially at the county level?	No
Will the appointment provide representation from a portion of the county not currently represented?	No
Will the appointment improve opportunities to work with non-traditional partners?	Yes
Please describe how the appointment improves partnership opportunities for the district:	Wilmington Tree Commission
Will the appointment improve the make-up of the board from an agricultural/nonagricultural perspective?	Yes

Describe how the appointment improves the non-ag representation for the board:	Tom represents both agriculture through forestry, and non-agriculture through business experience.
Will the appointment improve the diversity of the board?	No
Has the nominee shown past involvement in an organization beyond the local level?	Yes
Describe how the nominee has been involved in an organization beyond the local level:	Wilmington Tree Commission
Will the appointment strengthen the District's opportunity to raise funds?	No
Will the appointment strengthen the District's education, marketing, and outreach efforts?	Yes
How will the appointment strengthen the District's education, marketing, and outreach efforts?	His business and marketing knowledge will help improve district visibility.
Last Update	2022-08-03 14:43:50
Start Time	2022-08-03 14:10:10
Finish Time	2022-08-03 14:43:50
IP	152.31.193.130
Browser	Chrome
Device	Desktop
Referrer	https://fs3.formsite.com/ncdswc/sqs3d5m4ej/form_login.html

Wiklund, Helen

From: noreply@fs3.formsite.com on behalf of Formsite <noreply@fs3.formsite.com>
Sent: Wednesday, July 13, 2022 9:58 AM
To: Wiklund, Helen
Subject: [External] Nomination for Supervisor Appointment Result #12654550

Reference #	12654550
Status	Complete
Login Username	christin.deese@richmondnc.com
Login Email	christin.deese@richmondnc.com
Appointment or Reappointment	New Appointment
District:	Richmond
Unexpired/Expired Term of Supervisor:	Elizabeth D. Davenport
Elected/Appointed	Elected
Term of Office	December 2018 to November 2022
Name of Nominee:	John. F McInnis
Nominee Mailing Address:	158 John McInnis
City:	Candor
State:	NC
Zipcode:	27229
Nominee Email Address:	69passintime@gmail.com

Nominee Mobile or Home Phone:	910-417-5868
Age	53
Occupation:	Farmer
Education:	High School Graduate
Positions of leadership NOW held by nominee:	Lieutenant for Mt. Creek Fire Department
Former Occupations or Positions of Leadership Contributing to Nominee's qualifications:	The last 19 years I have managed my own poultry and forage farm. Prior to this I was the head leader of the Stocker Program for North State Farm.
If appointed, I am willing to attend Basic Training for Soil & Water Conservation District Supervisors within the first year after appointment?	Yes
The program and purpose of the soil and water conservation district been explained to me?	Yes
I am willing to attend and participate in (check all that apply)?	• Local District Meetings • Area Meetings • State Meetings
Nominee Signature:	
Typed/printed name:	John F. McInnis
Date:	07/11/2022

District Board Chair Signature (or Vice Chair if Chair is being nominated):	
Typed/printed name:	Jeff W. Joyner
Date:	07/11/2022
Resignation letter (only needed if vacancy is due to resignation).	Scan20220712091607.pdf (242 KB)
Is the nominee actively engaged in, or recently retired from, an agricultural operation?	Yes
Please explain the nominee's connection to agriculture:	John has his own farm producing poultry and forage.
Number of current District Supervisors actively engaged in, or recently retired from, an agricultural operation.	3
Will the appointment provide an opportunity to engage a segment of agriculture not currently being served?	No
Will the appointment bring new leadership skills to the board?	Yes
Please describe the new leadership skills the nominee brings to the board:	Yes, he has been an officer in a local volunteer fire department.
Will the appointment strengthen the political connection/influence of the district, especially at the county level?	Yes

Please describe the new advocacy skills the nominee brings to the board:	Yes, John's uncle is a state senator for Moore and Richmond county.
Will the appointment provide representation from a portion of the county not currently represented?	Yes
Describe how the appointment improves the geographic representation for the board:	Yes, he lives in the most northern region of our district.
Will the appointment improve opportunities to work with non-traditional partners?	No
Will the appointment improve the make-up of the board from an agricultural/nonagricultural perspective?	Yes
Describe how the appointment improves the non-ag representation for the board:	Yes, he will be representing a segment of the county that is currently unrepresented.
Will the appointment improve the diversity of the board?	No
Has the nominee shown past involvement in an organization beyond the local level?	No
Will the appointment strengthen the District's opportunity to raise funds?	No
Will the appointment strengthen the District's education, marketing, and outreach efforts?	Yes
How will the appointment strengthen the District's education, marketing, and outreach efforts?	Yes, he will strengthen the boards outreach as well as marketing because of where he lives.
Last Update	2022-07-13 09:57:34
Start Time	2022-07-13 09:19:21

Finish Time	2022-07-13 09:57:34
IP	152.28.194.162
Browser	IE
Device	Desktop
Referrer	https://fs3.formsite.com/res/formLoginReturn

Elizabeth Deese Davenport
1915 N US #1 HWY
Rockingham, NC 28379
6/12/2022

Jeff Joyner
Chairman of the Board
Richmond County Soil & Water Conservation
Rockingham, NC 28379

Dear Jeff Joyner:

Please accept this as official notice of my resignation. Since my appointment to this board, I have thoroughly enjoyed my time as part of this team. I would like to thank you for that opportunity as it has been an experience, I am thankful for. I am resigning from this position due to a conflict of interest as my sister has accepted the position as Administrative Assistant.

My last day at Richmond County Soil & Water Conservation will be 06/21/2022. I will be happy to help with any transitions to whomever is appointed to fill my position if needed.

Sincerely,

Elizabeth D. Davenport

Elizabeth D Davenport

ATTACHMENT 7B

NC Cost Share Programs Supervisor Contracts
Soil and Water Conservation Commission

County	Contract Number	Supervisor Name	BMP	Contract Amount	Comments
Currituck	27-2022-003	Harvey Roberts	Field Border	$949	
Currituck	27-2022-006	Manly West	Residue and Tillage Management	$6,025	
Duplin	31-2022-017	Louis Q. Howard	Cover Crops	$9,998	
Person	73-2022-011	Cal Berryhill	Heavy Use Area, Livestock Exclusion, Stream Protection Well, Watering Tanks	$24,601	

Total Number of Supervisor Contracts: 4

Total $41,573

August 16, 2022

ATTACHMENT 7B

NCDA&CS
DSWC

NC -CSPs-1B
(11/2012)

ADDENDUM TO APPLICATION FOR ASSISTANCE
NORTH CAROLINA COMMISSION COST SHARE PROGRAMS

As a Soil and Water District Supervisor, for the Currituck Soil and Water Conservation District, I have applied for, or stand to benefit* from, a contract under a commission cost share program. I did not vote on the approval or denial of the application or attempt to influence the outcome of any action on the application. The proposed contract is for the installation of the following best management practices.

Program: ACSP

Best management practice: Field Border

Contract number: 27-2022-003 Contract amount: $ 949

Score on priority ranking sheet: 60

Cost Share Rate: 75 % If different than 75%, please list % percent: _____
Reason: _____

Relative rank (e.g., ranked 8th out of 12 projects considered): 4 out of 6

Were any higher or equally ranked contracts denied? ☐ Yes ☒ No

If yes, give an explanation as to why the supervisor's contract was approved over the other contracts:

Supervisor name: Harvey Roberts

W. Harvey Roberts
(District Supervisor's signature)

5/19/22
Date

Approved by:
Manly West
Manly West
(District Chairperson's signature)

5/19/22
Date

The Soil & Water Commission has approved the subject application for a contract.

(SWCC Chairperson's signature)
(Pursuant G.S. 139-8(b)(2))

Date

*Beneficiaries include but are not limited to applicant, landowner, and/or business partners.

ATTACHMENT 7B

NCDA&CS
DSWC

NC -CSPs-1B
(11/2012)

ADDENDUM TO APPLICATION FOR ASSISTANCE
NORTH CAROLINA COMMISSION COST SHARE PROGRAMS

As a Soil and Water District Supervisor, for the Albemarle/Currituck Soil and Water Conservation District, I have applied for, or stand to benefit* from, a contract under a commission cost share program. I did not vote on the approval or denial of the application or attempt to influence the outcome of any action on the application. The proposed contract is for the installation of the following best management practices.

Program: NC Cost Share

Best management practice: Residue & Tillage Management

Contract number: 27-2022-006 Contract amount: $ 6,025.00

Score on priority ranking sheet: 60

Cost Share Rate: 75 % If different than 75%, please list % percent: _____
Reason: _____

Relative rank (e.g., ranked 8th out of 12 projects considered): 2 out of 3

Were any higher or equally ranked contracts denied? ☐ Yes ☒ No

If yes, give an explanation as to why the supervisor's contract was approved over the other contracts:

Supervisor name:

Mary West
(District Supervisor's signature)

5/19/2022
Date

Approved by:

William L. Powell
(District Chairperson's signature)
Vice

5/19/2022
Date

The Soil & Water Commission has approved the subject application for a contract.

(SWCC Chairperson's signature)
(Pursuant G.S. 139-8(b)(2))

Date

*Beneficiaries include but are not limited to applicant, landowner, and/or business partners.

ATTACHMENT 7B

NCDA&CS
DSWC

NC -CSPs-1B
(11/2012)

ADDENDUM TO APPLICATION FOR ASSISTANCE
NORTH CAROLINA COMMISSION COST SHARE PROGRAMS

As a Soil and Water District Supervisor, for the Duplin Soil and Water Conservation District, I have applied for, or stand to benefit* from, a contract under a commission cost share program. I did not vote on the approval or denial of the application or attempt to influence the outcome of any action on the application. The proposed contract is for the installation of the following best management practices.

Program: ACSP

Best management practice: Cover Crop

Contract number: 31-2022-017 Contract amount: $ 9998.00

Score on priority ranking sheet: 40

Cost Share Rate: 75 % If different than 75%, please list % percent: n/a
Reason: _____

Relative rank (e.g., ranked 8th out of 12 projects considered): 4 out of 106

Were any higher or equally ranked contracts denied? ☐ Yes ☒ No

If yes, give an explanation as to why the supervisor's contract was approved over the other contracts:

Supervisor name:

Lowis Q. Howard
(District Supervisor's signature)

6/27/2022
Date

Approved by:

Franklin C. Williams
(District Chairperson's signature)

6/27/2022
Date

The Soil & Water Commission has approved the subject application for a contract.

_____
(SWCC Chairperson's signature)
(Pursuant G.S. 139-8(b)(2))

_____
Date

*Beneficiaries include but are not limited to applicant, landowner, and/or business partners.

ATTACHMENT 7B

NCDA&CS
DSWC

NC -CSPs-1B
(11/2012)

ADDENDUM TO APPLICATION FOR ASSISTANCE
NORTH CAROLINA COMMISSION COST SHARE PROGRAMS

As a Soil and Water District Supervisor, for the Person Soil and Water Conservation District, I have applied for, or stand to benefit* from, a contract under a commission cost share program. I did not vote on the approval or denial of the application or attempt to influence the outcome of any action on the application. The proposed contract is for the installation of the following best management practices.

Program: NC ACSP

Best management practice: livestock well, exclusion fencing, pipeline, waterers

Contract number: 73-2022-011 Contract amount: $ 24,601

Score on priority ranking sheet: 525 / 800

Cost Share Rate: 75 % If different than 75%, please list % percent: _____
Reason: _____

Relative rank (e.g., ranked 8th out of 12 projects considered): 2nd out of 6 contracts

Were any higher or equally ranked contracts denied? ☐ Yes ☒ No

If yes, give an explanation as to why the supervisor's contract was approved over the other contracts:

Supervisor name: Cal Berryhill

Will of Berry by Cal Berryhill
(District Supervisor's signature)

6-15-2022
Date

Approved by:

Ben R. Whitfield
(District Chairperson's signature)

6-28-2022
Date

The Soil & Water Commission has approved the subject application for a contract.

(SWCC Chairperson's signature)
(Pursuant G.S. 139-8(b)(2))

Date

*Beneficiaries include but are not limited to applicant, landowner, and/or business partners.

ATTACHMENT 7C

Technical Specialist Designation Recommendations

August 16, 2022

1. The Soil and Water Conservation Commission has authority to designate water quality technical specialists based upon specific criteria and procedures (02 NCAC 59G). This authority extends to individuals who have been assigned approval authority by USDA NRCS, professional engineers subject to the "The NC Engineering and Land Surveying Act", or individuals that have completed the training requirements and demonstrated proficiency in a technical specialist category. Individuals must submit an application with evidence of expertise, skills and training required for each designation category.

   Mr. Nathan Bridges, Prestage Farms and Bridges Irrigation, has requested to be designated technical specialist for the Waste Utilization Planning/Nutrient Management (WUP/NM) category. He has successfully completed the required training and technical proficiency has been verified by DSWC staff. Therefore, I recommend this designation for approval.

   Ms. Kaelyn Mohrfeld, NCSU Cooperative Extension Livestock Extension Agent, Lenoir and Greene Counties, has requested to be designated technical specialist for the Waste Utilization Planning/Nutrient Management (WUP/NM) category. She has successfully completed the required training and technical proficiency has been verified by DSWC staff. Therefore, I recommend this designation for approval.

Tropical Storm Fred Recovery Update

NC Soil & Water Conservation Commission

August 16, 2022

ATTACHMENT 8

FOR FUTURE FLOODING

GETTING DEBRIS OUT IS JOB ONE

MASSIVE OBSTRUCTIONS — This stream bed photo shows the massive obstructions still clogging the East Fork of the Pigeon River.

BY VICKI HYATT

vhyatt@themountaineer.com

As Haywood approaches the one-year anniversary of Tropical Storm Fred's destruction, the East Fork of the Pigeon River is still clogged with debris, setting the stage for even worse flooding should another major storm come this way.

Luckily, a $5 million emergency watershed protection grant will help clean out the most troublesome areas of the East Fork of the Pigeon River and several other trouble spots in the county.

Duane Vanhook, director of the Haywood County Soil and Water Conservation District, has been at the forefront of the effort.

Flood continues on A9

DEBRIS CLEANUP EXPERTS — Duane Vanhook, left, and Bill Yarborough are the point people in Haywood for stream cleanup efforts following Tropical Storm Fred.

County	EWP Funds Awarded	Non-StRAP Match	StRAP Award	Number of Planned Segments EWP/Total	Stream Miles Planned EWP/Total
Buncombe	$2,215,537	$738,513	$336,649	44/48	16/25
Haywood	$5,636,845	$1,878,949	$253,125	57/60	42.5/48
Madison	$21,450	$7,150	$284,423	1/5	.5
Transylvania	$711,396	$217,371	$90,000	9/13	?

EWP/StRAP Stats for TS Fred Counties

ATTACHMENT 9A

JAA APPLICANTS FOR CONSIDERATION AT THE AUGUST 16, 2022 NC SWCC MEETING				
APPLICANT NAME	**EMPLOYER**	**TYPE OF JAA REQUESTED**	**APPLICATION DATE**	**JAA RECOMMENDED FOR APPROVAL**
James Bridges	Cleveland SWCD	Comparable NRCS JAA	7/11/2022	1. 327 - Conservation Cover 2. 328 - Sod-based Rotation 3. 329 - Long Term No-Till 4. 329-CTS - 3-year Conservation Tillage System 5. 340 - Cover Crops 6. 342 - Critical Area Planting 7. 382 - Livestock Exclusion Fencing 8. 386 - Field Border 9. 390 - Riparian Buffer 10. 393 - Filter Strip 11. 512 - Cropland Conversion 12. 512-PR - Pasture Renovation 13. 561 - Heavy Use Area Protection 14. 614 - Trough or Tank

JAA Technical Competency Requirement Revisions

NC Soil and Water Conservation Committee Meeting
August 16, 2022

1

BMP Technical Competency Requirements

- Define minimum proficiencies/competencies
  - Knowledge, Skills and Abilities (KSAs)
- Describe requirements for three phases of practice implementation.
  - Inventory & Evaluation
  - Design
  - Construction & Certification

2

CONSERVATION COVER

PRACTICE DESCRIPTION				JOB CLASSES				
Code	Practice	Controlling Factor	Units	Job Class I	Job Class II	Job Class III	Job Class IV	Job Class V
327	Conservation Cover	Purpose	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete "The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form.	1. Knowledge of NC's Crops and Cropping Systems. 2. Knowledge of Soil Health and Management. 3. Ability to use Current Wind and Water Erosion Prediction Tools. 4. Knowledge of Tillage Systems used in NC. 5. Knowledge of Wildlife Management and Adaptive Plant Species.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client's objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the "Design" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the "Installation" & "Check Out" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form ("Conservation Practice Certification Form") or comparable form.

3

BMP Technical Competency Requirements

- Every BMP eligible for JAA has an approved technical competency requirements sheet.
- Reasons for revising
  - Varying levels of complexity
  - One JAA level is not adequate

4

BMP Technical Competency Requirements

1. Heavy Use Area Protection
2. Land Smoothing
3. Cropland Conversion

5

BMP Technical Competency Requirements

- Heavy Use Area Protection

		JOB CLASSES				
Controlling Factor	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
Material	Type	Stone	Concrete	-	-	-
Land Slope	%	< 5%	5 - 10%	> 15% = PE Only	-	-

  - Planning and design complexity increases

6

BMP Technical Competency Requirements

- Land Smoothing
  - Two different applications of practice in NC:
    1. Full field – reshaping the surface of land to planned grades. Improves surface drainage and control erosion. Coastal Plain
    2. BMP removal – removing irregularities on the land surface. Depressions, mounds, old terraces, turn-rows, and other surface irregularities. Piedmont & Mountains
  - Similar intent, different scale

7

BMP Technical Competency Requirements

- Land Smoothing

		JOB CLASSES				
Controlling Factor	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
Area Affected	Acres	0 -10 acres	> 10 acres	-	-	-

8

BMP Technical Competency Requirements

- Cropland Conversion
  - THREE different applications of practice in NC:
    - Cropland Conversion to Grass
    - Cropland Conversion to Trees
    - Cropland Conversion to Wildlife Habitat
  - Different technical competency required for each application
  - THREE NRCS practices
    - 512 – Pasture and Hayland Planting
    - 612 – Tree/shrub Establishment
    - 420 – Wildlife Habitat Planting

9

BMP Technical Competency Requirements

- Cropland Conversion

		JOB CLASSES				
Controlling Factor	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
Cover Type	-	-	-	-	-	-
Pasture and Hayland	Acres	ALL	-	-	-	-
Tree/Shrub	Acres	ALL	-	-	-	-
Wildlife Habitat	Acres	ALL	-	-	-	-

10

CROPLAND CONVERSION

ATTACHMENT 9B.i

PRACTICE DESCRIPTION				JOB CLASSES				
Code	Practice	Controlling Factor	Units	Job Class I	Job Class II	Job Class III	Job Class IV	Job Class V
512	Cropland Conversion	Cover Type	-	-	-	-	-	-
		Pasture and Hayland	Ac.	ALL				
		Tree/Shrub	Ac.	ALL				
		Wildlife Habitat	Ac.	ALL				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form.	1. Knowledge of adapted plants for the ecological sites/forage suitability groups in the area of service. 2. Skill in planning the planting protocols and educating land users in the operation and maintenance for the practice/operation/site.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

HEAVY USE AREA PROTECTION

ATTACHMENT 9B.ii

PRACTICE DESCRIPTION				JOB CLASSES				
Code	Practice	Controlling Factor	Units	Job Class I	Job Class II	Job Class III	Job Class IV	Job Class V
561	Heavy Use Area Protection	Material	Type	Stone	Concrete			
		Land Slope	%	< 5%	5-15%	>15% = PE Only		

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. Working knowledge of Web Soil Survey, Suitabilities and Limitations Ratings. 5. Capability to perform layout and construction checking following applicable procedures and Notekeeping format contained in Technical Release 62.	1. Knowledge of NRCS Construction Specification 21 - Excavation and 23 - Earthfill. 2. Ability to Assess site soil conditions and prescribe treatment and the appropriate vegetation. 3. Practice standard criteria-related computations and analyses to develop plans and specifications including but not limited to standard drawing(s) or other approved site-specific drawing(s) and the NC approved spreadsheet 561_NC_GD_Heavy_Use_Area_ProtectionFeeding_Site_Assessment_Tool_v_7_2015.xlxs or equivalent. 4. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). 5. Development of as-built or “red-line” drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52). 6. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3).

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

LAND SMOOTHING

ATTACHMENT 9B.iii

PRACTICE DESCRIPTION				JOB CLASSES				
Code	Practice	Controlling Factor	Units	Job Class I	Job Class II	Job Class III	Job Class IV	Job Class V
466	Land Smoothing	Area affected	Acres	0-10 acres	>10 acres			

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form.	1. Knowledge of NC's Crops and Cropping Systems. 2. Knowledge of Soil Health and Management. 3. Ability to use Current Wind and Water Erosion Prediction Tools. 4. Knowledge of Tillage Systems used in NC. 5. Knowledge of water budget, especially on volumes and rates of runoff, infiltration, and evaporation. 6. Knowledge of wetland hydrology and/or wetland wildlife habitat. 7. Compliance with NRCS national and state utility safety policy (NEM part 503-Safety, Section 503.00 through 503.22).

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

Swine & Dairy Assistance Program
Closure - Waste Impoundments

Definition/Purpose

A Closure of Waste Impoundments Practice means the safe removal of existing waste and waste water and the application of this waste on land in an environmentally safe manner. This practice is only applicable to eligible NC Swine and Dairy Assistance Program participants for the closure of swine lagoons for swine operations that will not secure a contract with another swine integrator and will cease swine production, or for closure of dairy waste structures associated with dairy operations that will cease milk production.

Policies

1. Only swine and dairy producers with eligibility approved by NCDA&CS for the NC Swine and Dairy Assistance Program may receive cost share for this practice. (S.L. 2021-180, SECTION 10.8)

2. Cost share shall be limited to ninety percent (90%) of the lagoon closure cost, not to exceed one hundred thousand dollars ($100,000) per operation.

3. Applicants may request additional cost share to convert the decommissioned lagoon to an agricultural water supply pond. To be eligible, the applicant must demonstrate a need for additional water supply for agricultural uses. The additional cost share shall be limited to ninety percent (90%) of the actual cost of the conversion, not to exceed thirty thousand dollars ($30,000) per operation.

4. Applicants must follow these guidelines:

    a. Each contract must contain the following information and must be reviewed by the Division prior to approval:

        i. Waste impoundment closure plan.

        ii. Phosphorus loss potential (PLAT) results for each application field

        iii. Cooperator acknowledgement form.

        iv. Division waste impoundment closure plan approval letter.

        v. Division engineering approval letter for agricultural water supply pond conversions.

        vi. Volume of system based on length, width, depth of liquid/sludge and slopes.

        vii. Two estimates from established contractors, using entire volume of system as determined by the District and as included in the waste impoundment closure plan. In situations where pumping is impractical because of consistency of sludge (i.e. solid), sludge may be excavated. Estimates should include information regarding how waste is to be removed (i.e. drag line, agitate and pump, etc.)

viii. Surface area (acres) of the waste impoundment.

ix. A profile of the dam and how it is to be breached, if not converting to an agricultural water supply pond.

x. A design of the spillway(s) and installation guidelines, if converting to an agricultural water supply pond.

5. For all waste impoundment closures:

   a. This practice shall not be used to apply waste at a rate exceeding the following maximums:

      i. For sites with a phosphorus loss potential (per PLAT) of low or medium, waste shall be applied in accordance with a nitrogen-based waste application plan

      ii. For sites with a phosphorus loss potential (per PLAT) of HIGH, waste shall be applied accordance to the phosphorus removal rate of the receiving crop.

      iii. No application of waste is allowed for sites with a phosphorus loss potential (per PLAT) of VERY HIGH.

      iv. Planning shall project the impact of the waste application to heavy metal critical levels based on soil index. Alternative application sites should be selected if projections indicate that metals may approach excessive levels.

      v. In addition, the application shall not exceed the rate specified per acre in the plan nor the total nitrogen requirement of the receiving crop specified in the plan. If additional nitrogen is needed, consideration must be given to limit additional phosphorus application.

   b. The District or a Technical Specialist shall prepare the waste impoundment closure plan in accordance with the current standards promulgated by the United States Department of Agriculture, Natural Resource Conservation Service and the State of North Carolina, using the latest version of NC Nutrient Management Software program. The plan must address removal of transfer pipes and installation of a spillway, if needed.

   c. The plan shall be written according to the closure methodologies agreed upon by the producer and contractor (i.e. agitate and combine all liquid and sludge, pump top water off then agitate, dredge sludge, etc.). If it is determined that a different methodology will be used after development of the plan, the plan shall be revised prior to land application of waste.

   d. All land application setbacks according to 15A NCAC 02T .1304 shall be observed in the development of the waste application plan and adhered to during land application of waste.

   e. A pre-construction conference including the district technical representative, nutrient management plan developer, contractor and landowner shall be held prior to commencement of closure.

f. Cost Share Program funds will be used for the removal of waste and stabilization of site only (not for fill materials). Removal of foreign materials will be at the landowner's expense and must be removed according to state and federal guidelines.

g. All disturbed areas will be vegetated to permanent grass, trees, or wildlife plantings according to NRCS 342 Critical Area Planting Standard.

h. Districts shall write contracts for waste impoundment closures based on the lowest bid that is technically acceptable.

i. Payments will be based on actual cost with receipts. Receipts and a copy of the signed DWR Closure Report Form must accompany the Request for Payment.

6. In addition to above, for waste impoundment closures converting to agricultural water supply ponds:

   a. The pond shall be for agricultural use and includes all associated components to meet the intent of the design.

   b. An Inventory and Evaluation Form for Lagoon Conversions must be completed.

   c. A pre-construction conference including the district technical representative, designer, contractor and landowner shall be held prior to commencement of conversion.

   d. All pond designs and completed construction must be certified by a professional engineer or an individual with appropriate Job Approval Authority.

   e. The pond must be designed to meet the specifications listed below based on the hazard classification:

      i. Excavated Ponds– NRCS Standard 378

      ii. Low Hazard – NRCS Standard 378 OR NC Dam Safety Law (15A NCAC 02K .0100)

      iii. Intermediate Hazard – NC Dam Safety Law (15A NCAC 02K .0100)

      iv. High Hazard – NC Dam Safety Law (15A NCAC 02K .0100)

   f. A Jurisdictional Determination/Hazard Classification Request form may be required to determine hazard classification. The responsible design engineer is responsible for submitting the request to NC Dam Safety.

   g. Any pond dam that is classified as Intermediate or High Hazard, pursuant to NC Dam Safety Law, is required to be designed by a private engineer.

   h. Private engineer designs, except for High Hazard ponds, shall be submitted to a Division Engineer for review and approval of Job Approval Authority.

      i. Dam Safety design and construction approval shall serve as Job Approval Authority for High Hazard ponds.

   i. Upon completion of the project, copies of the as-built survey should be provided to the Soil and Water Conservation district, landowner and Division of Soil and Water

Conservation. The design engineer shall complete and return the Certification of Completion.

j. An Operation and Maintenance Plan is required.

k. Livestock shall be excluded from the pond.

l. Additional water can be used to fill ponds including stormwater runoff, wells, streams and other water resources.

m. For excavated ponds and those embankment dams with low hazard classification, trees six inches in diameter or greater can remain in the embankment if they are not dead or unhealthy, and if they are located such that they could not pose structural damage to the embankment, pipes, or spillway structures etc. All other trees, shrubs and woody vegetation shall be removed.

n. Districts shall write contracts for waste impoundment conversions to agricultural water supply ponds based on the lowest bid that is technically acceptable. Payments will be based on actual cost with receipts. Receipts, DWR Closure Form and the Certificate of Completion must accompany the Request for Payment.

o. Applicants that do not demonstrate a need for additional water supply for agricultural uses, may elect to convert the waste impoundment to a freshwater pond according to NRCS 378 Pond Standard, but will not qualify for the additional cost share to convert the decommissioned waste impoundment.

CLOSURE - WASTE IMPOUNDMENT	
BMP Units	EACH
Required Effects	• ANIMAL TYPE • ANIMAL UNITS • N and P WASTE MANAGED
JAA	• SWCC - 360 Closure of Waste Impoundments **OR** • NRCS-ENG - 360 Closure of Waste Impoundments **OR** • Technical Specialist Designation WUP/NM **OR** • Professional Engineer **For Conversion to Ag Water Supply Pond:** • Professional Engineer
CS2 Reference Materials	• NC-ACSP-11 Signature Page • Map with BMP location, fields, and roads. • NC-ACSP-WMP Form • Lagoon Specification Questions • Two bids • Cooperator Acknowledge Form • Receipts (for RFP) • DWR Closure Form (for RFP) **For Conversion to Ag Water Supply Pond also include:** • Water Balance Results • Operation and Maintenance Plan • Inventory and Evaluation Form (Irrigation or Livestock) • Certification of Completion (for RFP)
NRCS Standards & Reference Materials	• CPS – 360 Waste Facility Closure • CPS – 590 Nutrient Management • CPS – 342 Critical Area Planting • CPS – 378 Pond • NC Dam Safety Law (15a NCAC 02k .0100) • Lagoon Closure Steps • DSWC Guidelines for Lagoon Closure Plan Development

1

11. ACSP Items

A. Best Management Practice Policy Revisions for Consideration
   i. Cropland Conversion
   ii. Land Smoothing
   iii. Stock Trails and Walkways
   iv. Precision Agrichemical Application
B. Detailed Implementation Plan
C. Average Cost List
D. District Financial Assistance Allocation

2

11. A. Policy Revisions

- All text updated for clarity

i. Cropland Conversion
   - JAA and standards updated for trees and wildlife planting

ii. Land Smoothing
   - Added SWCC JAA, updated residue and tillage management accompanying practice

iii. Stock Trails and Walkways
   - Updated BMP Units, JAA and standards updated for fencing

iv. Precision Agrichemical Application
   - Required effects, JAA and standards for updated pest management

3

11. B. FY2023 Detailed Implementation Plan

- No major revisions from FY2022
- Updated total approved BMPs to **66**
- Added Agricultural Pond Sediment Removal to Table 2
- Added the new Stream Debris Removal BMP
- Checked consistency of practice names

4

11. C. Average Cost List

Adjust costs every 3 years as described in 02 NCAC 59D .0107 (d) *"Average installation costs for each comparative area or region of the State and the amount of cost share incentive payments shall be updated and revised triennially by the Division for approval by the Commission".*

- GOAL: Evaluate the existing ACSP average cost list, develop a methodology to improve the accuracy of costs and create an updated ACSP average cost list for FY2023
- Met eight times since December 2021

5

11. C. Average Cost List

PJ Andrews– Pitt SWCD	**Thomas Murphrey –** Wayne SWCD
John Beck – DSWC	**Derek Potter –** SWCC
Jason Byrd – Rockingham SWCD	**Rachel Smith** – DSWC Engineer
Tony Davis – Surry SWCD	**Duane Vanhook** – Haywood SWCD
Teresa Furr – Wake SWCD	**Mike Willis –** SWCC
Julie Henshaw – DSWC	
Scott Melvin – DSWC Engineer	

6

11. C. Average Cost List

Additional assistance from:

- Joseph Hanks
- Lisa Fine
- Ken Parks
- Sydney Mucha
- Tom Hill
- Michael Shepherd
- Allie Dinwiddie

7

11. C. Average Cost List

- Developed a methodology for updating costs
  - RSMeans
  - NC DOT bid average dataset
  - Receipts
  - Vendor pricing averages
  - Current ACSP, AgWRAP and CCAP cost lists
  - EQIP payment schedule

8

11. C. Average Cost List

- Developed a methodology for updating costs
  - **RSMeans**
  - **NC DOT bid average dataset**

GRADING-medium, <=6" avg	Acre	$3,209.00	$ -	$ -	Average
GRADING-heavy, 6"-9" avg	Acre	$3,820.00	$ -	$ -	Average
GRADING-extra heavy 9"-12" avg	Acre	$4,430.00	$ -	$ -	Average
GRADING-maximum heavy >12" avg	Acre	$5,040.00	$ -	$ -	Average
GRADING-minimum, <=1/4 acre	Job	$2,630.00	$ -	$ -	Average

  - EQIP payment schedule

9

11. C. Average Cost List

- Developed a methodology for updating costs
  - RSMeans
  - **NC DOT bid average dataset**

STONE-Boulders (installed)	Ton	$138.25	$ -	$ -	Average
STONE-gravel	Ton	$ 50.00	$ -	$ -	Average
STONE-riprap	Ton	$ 69.00	$ -	$ -	Average

  - Current ACSP, AgWRAP and CCAP cost lists
  - EQIP payment schedule

10

11. C. Average Cost List

- Developed a methodology for updating costs
  - RSMeans
  - NC DOT bid average dataset
  - Receipts
  - **Vendor pricing averages**

TANK-watering (fixed)/Pressurized 2-Hole Watering Tank (44 gal.)	Each	$ 1,421.00	$ -	$ -	Average
TANK-watering (fixed)/Pressurized 2-Hole Watering Tank (44 gal.), concrete pad	Each	$ 1,827.75	$ -	$ -	Average
TANK-watering (fixed)/Pressurized 4-Hole Watering Tank (70 gal.)	Each	$ 1,603.00	$ -	$ -	Average
TANK-watering (fixed)/Pressurized 4-Hole Watering Tank (70 gal.), concrete pad	Each	$ 2,009.75	$ -	$ -	Average

11

11. C. Average Cost List

Summary

- 557 individual items in CS2 to start
- 442 items currently
- No reduction in any cost
- No new actual cost items
- Improved component descriptions
- Combined commonly used components for efficiency
- Inactivated unused items

12

11. C. Average Cost List

Summary
- 557 individual items in CS2 to start
- 442 items currently
- No reduction in any cost
- **No new actual cost items**
- | PASTURE RENOVATION | Acre | $377.00 | $ - | $ | Average |
- Combined commonly used components for efficiency
- Inactivated unused items

13

11. C. Average Cost List

Summary
- 557 individual items in CS2 to start
- 442 items currently
- No reduction in any cost
- No new actual cost items
- **Improved component descriptions**
- ~~PIPE- perf drain w/gravel filter~~ PIPE- Perf drain w/ 2'X2' GRAVEL FILTER, INCLUDES EXCAVATION/BACKFILL OF 2'X3' PER LF
- ~~RISER-fb .175" plate 108"~~ RISER-fb .175in plate 108in (5' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard

14

11. C. Average Cost List

Summary
- 557 individual items in CS2 to start
- | HUAP- fine grading, geotextile, stone (does not include excavation) |
  | HUAP-fine grading, concrete (does not include excavation) |
  | HUAP-for tanks and troughs: fine grading (does not include excavation), geotextile, stone, 44.4 SqYd (400 SqFt) |
  | HUAP- for tanks and troughs: fine grading, concrete, 44.4 SqYd (400 SqFt) |
- | TANK-watering (fixed)/Pressurized 2-Hole Watering Tank (20 - 28 gal.) |
  | TANK-watering (fixed)/Pressurized 2-Hole Watering Tank (20 - 28 gal.), concrete pad |
- **Combined commonly used components for efficiency**
- Inactivated unused items

15

11. C. Average Cost List

Summary
- 557 individual items in CS2 to start
- 442 items currently
- No reduction in any cost
- No new actual cost items
- Improved component descriptions
- Combined commonly used components for efficiency
- **Inactivated unused items** ~~WINDMILL~~

16

11. D. District Financial Assistance Allocation

- FY 2023 Strategic Plan –ACSP Requests
  - 100 counties requested - **$16,113,275** in regular cost share funds (CS)
  - 57 counties requested - **$3,207,686** for the Impaired and Impacted streams initiative (II)

17

11. D. District Financial Assistance Allocation

SOURCE	AMOUNT
FY2023 Appropriation	$ 4,016,998
Available funds from cancelations, releases and unencumbered Regular Cost Share, Impaired & Impacted, CREP, and TVA funds	$ 1,515,724
TOTAL AVAILABLE FUNDS	$ 5,532,722
5% Contingency Reserve	$ 200,850
Total Allocated FY2023	$ 5,331,872

18

11. D. District Financial Assistance Allocation

- TOTAL ALLOCATED FY 2023 = **$5,331,872**
  - REGULAR ACSP (CS) Total = **$4,736,872**
  - IMPAIRED/IMPACTED (II) Total = **$500,000**
  - CREP (CE) Total = **$95,000**

19

11 D. District Financial Assistance Allocation

- CS allocations were made to all districts requesting funds
- II funds were allocated to all counties requesting funds with a current impaired/impacted survey
- Funds were allocated using the allocation parameters described in rule 02 NCAC 59D .0103
- $20,000 minimum allocation (unless requesting less)

20

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- Funds were allocated using the allocation parameters described in rule 02 NCAC 59D .0103
- $20,000 minimum allocation (unless requesting less)

20

Cropland Conversion
(Grass, Trees and Wildlife Plantings)

Definition/Purpose

Cropland Conversion is the establishment of a conservation cover of grass, trees or wildlife plantings on fields previously used for crop production to improve water quality. Benefits may include reduced soil erosion, sedimentation and pollution from dissolved and sediment-attached substances.

Policies

1. Cropland Conversion can only be used on land that has a cropping history two of the last five years. This practice must not be used on idle farmland that has grown up in native vegetation and that does not exhibit a water quality concern.

2. If converting crop fields for grazing, the cooperator must provide at their own cost any livestock exclusion fencing, watering facilities, stream crossing, etc., that are needed to protect water quality. The cooperator must not allow cost shared fields to be overgrazed.

3. Cost Share Program funds can be used to convert cropland not eroding greater than "T" to grass and trees by demonstrating a reduction of nutrient loading to a nearby water source, due to reducing soil loss or reducing fertilizer application.

4. All NRCS standards and NC Agriculture Cost Share Program policies relative to vegetation are to be followed.

5. Trees, permanent wildlife food and cover, native herbaceous species for pollinators or other vegetation may be used instead of grass for cropland conversion if site specifications are met.

6. For cropland conversion to trees, except for the conditions below, average costs for tree planting will be used. The average cost will be based on the lowest cost tree species that is suitable for the site. (e.g., if the site is suitable for establishing loblolly pines but the grower wishes to establish hardwoods, the cost share rate will be based on loblolly).

    a. To receive the higher rate a tree planting statement signed by the local representative from the North Carolina Forest Service (NCFS) must be submitted. (Please see addendum to NC-ACSP-2 Tree Planting Statement.
    b. CREP enrollments for CP3 Tree Planting, CP3A Hardwood Tree Planting and CP31 Bottomland Timber Establishment specifies planting species other than Loblolly Pine. Therefore, CREP contracts do not require the Tree Planting Statement to receive the higher cost share rate for the planned species.

7. For cropland conversion to trees, to improve tree establishment and increase survival rates, cost share assistance is available for chemical releases or other recommended competition control measures before and after planting. For loblolly pines, cost share will be limited to one pre-treatment (site preparation) and one post-treatment. For hardwoods and longleaf pine, cost share will be limited to one pre-treatment (site preparation) and two post-treatments. Cost share may be available for an additional post-treatment within the first 3 years, upon recommendation and a site evaluation from the Division of Forest Resources or a registered

forester. The recommendation should accompany the supplement contract for the additional post-treatment control measure.

8. All contracts involving cropland conversion to trees that include pre- or post- plant site preparation or competition control treatments must include a statement from either the NCFS forest ranger or a registered forester that the specified treatments are necessary. This statement cannot be substituted for the forest management plan required for CREP contracts. A forest management plan recommending the specified treatments can be submitted in lieu of the above statement.

9. Cropland conversion shall not be used in conjunction with a CREP CP22 Riparian Buffer when the cropland conversion eliminates the pollutant source. Agricultural pollutant sources can include un-buffered crop, hay, pasture, or other non-forest area that could contribute to sediment, nutrients, or chemicals to receiving waters.

10. When determining the acreage for which payments can be made for this practice, only the measured acreage planted shall be considered. The area occupied by farm roads, best management practices, ditches, structures, etc., shall not be considered planted acreage.

11. Vegetative cover (grass, trees or wildlife plantings) must be maintained for a period of 10 years after the vegetation is planted.

CROPLAND CONVERSION	
Maintenance Period	10 years
BMP Units	ACRES
Required Effects	SOIL_SAVED NITROGEN_SAVED PHOSPHORUS_SAVED ACRES_AFFECTED (planted acres)
JAA	SWCC - 512 - Cropland Conversion **OR** NRCS - ECS - 512 - Pasture and Hay Planting NRCS - ECS - 612 - Tree/Shrub Establishment NRCS - ECS - 490 - Tree/Shrub Site Preparation NRCS - ECS - 420 - Wildlife Habitat Planting
NRCS Standards	NRCS - ECS - 512 - Forage and Biomass Planting NRCS - ECS - 612 - Tree/Shrub Establishment NRCS - ECS - 490 - Tree/Shrub Site Preparation NRCS - ECS - 420 - Wildlife Habitat Planting
Supporting Practices	SWCC - 327 - Conservation Cover NRCS - ECS - 327 - Conservation Cover
CS2 Reference Materials	NC-ACSP-11 Signature Page Map with BMP location, fields, and roads

Cropland Conversion
(Grass, Trees and Wildlife Plantings)

Definition/Purpose

A Cropland Conversion Practice means tois the establishestablishment and maintain of a conservation cover of grass, trees, or wildlife plantings on fields previously used for crop production to improve water quality. Benefits may include reduced soil erosion, sedimentation and pollution from dissolved and sediment-attached substances.

Policies

1. Cropland Conversion can only be used on land that has a cropping history two of the last five years. This practice must not be used on idle farmland that has grown up in native vegetation and that does not exhibit a water quality concern.

2. If converting crop fields for grazing, the a cooperator is going to graze livestock on cost shared cropland conversion fields, then he/she must provide at their his or her own cost any livestock exclusion fencing, watering facilities, stream crossing, etc., that are needed to protect the water quality. The cooperator must not allow cost shared fields to be overgrazed.

3. Cost Share Program funds can be used to convert cropland not eroding greater than "T" to grass and trees by demonstrating resulting in a reduction of nutrient loading to a nearby water source, due to reducing soil loss or reducing fertilizer application.

4. All NRCS standards and NC Agriculture Cost Share Program policies relative to vegetation are to be followed.

5. Trees, permanent wildlife food and cover, native herbaceous species for pollinators or other vegetation may be used instead of grass for cropland conversion, critical area treatment, filter strips, etc. as long as if site specifications are met.

6. For cropland conversion to trees, except for the conditions below, average costs for tree planting will be used. The average cost will be based on the lowest cost tree species that is suitable for the site. (e.g., if the site is suitable for establishing loblolly pines but the grower wishes to establish hardwoods, the cost share rate will be based on loblolly).

    a. To receive the higher rate a tree planting statement signed by the local representative from the Division of Forest ResourcesNorth Carolina Forest Service (NCFS) must be submitted. (Please see addendum to NC-ACSP-2 Tree Planting Statement.
    b. CREP enrollments for CP3 Tree Planting, CP3A Hardwood Tree Planting and CP31 Bottomland Timber Establishment specifies planting species other than Loblolly Pine. Therefore, CREP contracts do not require the Tree Planting Statement to receive the higher cost share rate for the planned species.

7. For cropland conversion to trees, in order to improve tree establishment good tree growth and increase survival rates, cost share assistance is available for chemical releases or other recommended competition control measures before and after planting.

For loblolly pines, cost share will be limited to one pre-treatment (site preparation) and one post-treatment. For hardwoods and longleaf pine, cost share will be limited to one pre-treatment (site preparation) and two post-treatments. Cost share may be available for an additional post-treatment within the first 3 years, upon recommendation and a site evaluation from the Division of Forest Resources or a registered forester. The recommendation should accompany the supplement contract for the additional post-treatment control measure.

8. All contracts involving cropland conversion to trees that include pre- or post- plant site preparation or competition control treatments must include a statement from either the ~~county~~ NCFS forest ranger or a registered forester that the specified treatments are necessary. This statement cannot be substituted for the forest management plan required for CREP contracts. A forest management plan recommending the specified treatments can be submitted in lieu of the above statement.

9. Cropland conversion shall not be used in conjunction with a CREP CP22 Riparian Buffer when the cropland conversion eliminates the pollutant source. Agricultural pollutant sources can include un-buffered crop, hay, pasture, or other non-forest area that could contribute to sediment, nutrients, or chemicals to receiving waters.

10. When determining the acreage for which payments can be made for this practice, only the measured acreage ~~actually~~ planted shall be considered. The area occupied by farm roads, best management practices, ditches, structures, etc., shall not be ~~included in~~ considered planted acreage.

~~10.~~11. Vegetative cover (grass, trees or wildlife plantings) must be maintained for a period of 10 years after the vegetation is planted.

CROPLAND CONVERSION	
Maintenance Period	10 years
BMP Units	ACRES
Required Effects	SOIL_SAVED NITROGEN_SAVED PHOSPHORUS_SAVED ACRES_AFFECTED (planted acres)
JAA~~/NRCS Standard unless otherwise noted~~	SWCC - 512 - Cropland Conversion **OR** NRCS - ECS - 512 - ~~Forage and Biomass Planting~~Pasture and Hay Planting NRCS - ECS - 612 - Tree/Shrub Establishment NRCS - ECS - 490 - Tree/Shrub Site Preparation NRCS - ECS - 420 - Wildlife Habitat Planting

NRCS Standards	NRCS - ECS - 512 - Forage and Biomass Planting NRCS - ECS - 612 - Tree/Shrub Establishment NRCS - ECS - 490 - Tree/Shrub Site Preparation NRCS - ECS - 420 - Wildlife Habitat Planting
Supporting Practices	SWCC - 327 - Conservation Cover NRCS - ECS - 327 - Conservation Cover
CS2 Reference Materials	NC-ACSP-11 Signature Page Map with BMP location, fields, and roads

Land Smoothing

Definition/Purpose

Reshaping the surface of agricultural land to planned grades for the purpose of improving water quality.

Improve Water Quality by:

1. Reducing nutrient loss
2. Reducing concentrated flow of water from an agriculture field
3. Improving infiltration

Policies

1. Land must be agricultural land that is being used for crop production. Land must be suitable for practice intentions.

2. Land must be graded to the extent needed to eliminate concentrated flow and achieve sheet flow for non-bedded crops.

3. Land Smoothing must be accompanied by one or more of the following best management practices that must meet NRCS standards (the contract must specify which accompanying practice(s) apply):

    a. Residue and Tillage Management on all fields where Land Smoothing is applied. Burning of crop residue is not permitted, unless NC Cooperative Extension or NCDA&CS Regional Agronomist certifies that burning is recommended to control a pest infestation.

    b. Water Control Structures that intercept all drainage acres from fields where Land Smoothing is applied.

    c. Riparian Forest Buffer or Filter Strip that intercepts all drainage acres from fields where Land Smoothing is applied.

4. Refer to the average cost list for per acre cost for light and heavy smoothing.

5. The accompanying BMP must be maintained for the five-year lifespan of this practice. NOTE – If accompanying BMP is Residue and Tillage Management the practice must be maintained for five years.

6. If the practice is completed outside the recommended planting season of a field crop, or if a field crop is not to be planted, a seasonal cover crop must be planted to prevent erosion.

7. A stable outlet is required for all hoe-drains for the life of the practice.

LAND SMOOTHING	
Maintenance Period	5 years
BMP Units	ACRES
Required Effects	ACRES_AFFECTED (planted acres and drainage area)
JAA	SWCC - 466 Land Smoothing OR NRCS - ENG - 466 - Land Smoothing
NRCS Standard	NRCS - ENG - 466 - Land Smoothing
CS2 Reference Materials	NC-ACSP-11 Signature Page Map with BMP location, fields, and roads

Land Smoothing

Definition/Purpose

Reshaping the surface of agricultural land to planned grades for the purpose of improving water quality.

Improve Water Quality by:

1. Reducing nutrient loss
2. Reducing concentrated flow of water from an agriculture field
3. Improving infiltration

Policies

1. Land must be agricultural land that is being used for crop production. Land must be suitable for practice intentions.

2. Land must be graded to the extent needed to eliminate concentrated flow and achieve sheet flow for non-bedded crops.

3. Land Smoothing must be accompanied by one or more of the following best management practices that must meet NRCS standards (the contract must specify which accompanying practice(s) apply):

    a. Residue and Tillage Management ~~Conservation Tillage or Long-Term No-till~~ on all fields where Land Smoothing is applied. Burning of crop residue is not permitted, unless NC Cooperative Extension or NCDA&CS Regional Agronomist certifies that burning is recommended to control a pest infestation.

    b. Water Control Structures that intercept all drainage acres from fields where Land Smoothing is applied.

    c. Riparian Forest Buffer or Filter Strip that intercepts all drainage acres from fields where Land Smoothing is applied.

4. Refer to the average cost list for per acre cost for light and heavy smoothing. ~~Accompanying BMP at established rate or average cost.~~

5. The accompanying BMP must be maintained for the five-year lifespan of this practice. NOTE – If accompanying BMP is Residue and Tillage Management ~~Conservation Tillage~~ the practice must be maintained for five years.

6. If the practice is completed outside the recommended planting season of a field crop, or if a field crop is not to be planted, a seasonal cover crop ~~is to~~must be planted to prevent erosion.

7. A stable outlet is required for all hoe-drains for the life of the practice.

LAND SMOOTHING	
Maintenance Period	5 years
BMP Units	ACRES
Required Effects	ACRES_AFFECTED (planted acres and drainage area)
JAA~~/NRCS Standard unless otherwise noted~~	SWCC - 466 Land Smoothing OR NRCS - ENG - 466 - Land Smoothing
NRCS Standard	NRCS - ENG - 466 - Land Smoothing
CS2 Reference Materials	NC-ACSP-11 Signature Page Map with BMP location, fields, and roads

Stock Trails & Walkways

Definition/Purpose

A Stock Trail and Walkway means to provide a stable area used frequently and intensively for livestock movement by surfacing with suitable material to improve water quality. Benefits may include reduced soil erosion, sedimentation and pollution from dissolved, particulate, and sediment-attached substances. (DIP)

Policies

1. Adequate fencing is required.

2. Cost share of earth fill is only allowed where it is necessary to haul fill material from off site in dump trucks on public roads.

STOCK TRAILS & WALKWAYS	
Maintenance Period	10 years
BMP Units	SQ YD
Required Effects	ACRES_AFFECTED ANIMAL TYPE ANIMAL UNITS
JAA	SWCC - 575 Stock Trails and Walkways SWCC - 382 Livestock Exclusion Fence **OR** NRCS - ENG - 575 - Trails and Walkways NRCS - ENG - 382 - Fence
NRCS Standards	NRCS - ENG - 575 - Trails and Walkways NRCS - ENG - 382 - Fence
Supporting Practices/Information	National Engineering Handbook, Material Specification 592 - Geotextiles
CS2 Reference Materials	NC-ACSP-11 Signature Page
	Map with BMP location, fields, and roads.

(August 2022, July 2019, July 2012)

Stock Trails & Walkways

Definition/Purpose

A Stock Trail and Walkway means to provide a stable area used frequently and intensively for livestock movement by surfacing with suitable material to improve water quality. Benefits may include reduced soil erosion, sedimentation and pollution from dissolved, particulate, and sediment-attached substances. (DIP)

Policies

1. Adequate fencing is required.

2. Cost share of earth fill is only allowed where it is necessary to haul fill material from off site in dump trucks on public roads.

STOCK TRAILS & WALKWAYS	
Maintenance Period	10 years
BMP Units	SQ YD ~~LIN FT~~
Required Effects	ACRES_AFFECTED ANIMAL TYPE ANIMAL UNITS
JAA~~/NRCS Standard unless otherwise noted~~	SWCC - 575 Stock Trails and Walkways SWCC - 382 Livestock Exclusion Fence **OR** NRCS - ENG - 575 - ~~Animal~~ Trails and Walkways NRCS - ENG - 382 - Fence
NRCS Standards	NRCS - ENG - 575 - Trails and Walkways NRCS - ENG - 382 - Fence
Supporting Practices/Information	National Engineering Handbook, Material Specification 592 - Geotextiles
CS2 Reference Materials	NC-ACSP-11 Signature Page
	Map with BMP location, fields, and roads~~.~~

(August 2022, July 2019, July 2012)

Precision Agrichemical Application

Definition/Purpose

Precision Agrichemical Application means using a system of components that enable reduction and greater control of fertilizer or pesticide application. This is accomplished through avoidance of excessive overlapping, unnecessary application to end/turn rows, and more precise control of application rates (DIP).

Policies

1. Cost share for this practice shall be based upon actual cost with a cap. The cap for each tier is additive upon the previous tier. It is acceptable for an applicant who has already adopted a lower tier to receive cost share to adopt higher tiers and receive cost share up to the incremental cap(s).

2. This practice can be used to either retrofit existing application equipment or to replace existing equipment with new equipment with precision technology.

3. The applicable cost share cap for this practice shall be based upon the capabilities of the system according to the following tiers. To qualify for the higher tiers, the applicant must also implement or have already adopted all of the lower tiers:

    a. Tier 1: GPS guidance system
        i. Guidance system must have at least sub-meter pass-to-pass accuracy
        ii. System must include the capability to compensate for tilt if used on slopes > 4%.
    b. Tier 2: Automatic Application Rate Control
        i. Rate control system must be capable of recording the application rate data and producing an application map
        ii. Must include automatic correction for ground speed and number of boom sections being used.
    c. Tier 3: Boom section control
        i. Guidance system must have at least sub-meter pass-to-pass accuracy
        ii. The system must have enough controls that the average length of each independently controlled section is no more than 12 feet.

4. Before the applicant can receive payment for this practice, they must demonstrate operation of properly calibrated equipment while applying agrichemicals.

5. For spot checks, district staff should either observe the cooperator using the equipment for agrichemical application or view the data stored or downloaded by the control system to ensure the system is being used.

6. The cooperator may upgrade any component of the precision application system without additional cost share during the maintenance period, as long as the upgraded system has components that are equivalent or better than the system originally cost shared.

(August 2022, May 2019, August 2015, July 2012)

7. This practice is limited to one system per cooperator. However, a cooperator is free to utilize components of the system on multiple pieces of equipment, provided the cooperator can produce the cost shared components for spot checks with adequate advance notice.

8. The cooperator is eligible to receive the precision nutrient management incentive while using this practice.

PRECISION AGRICHEMICAL APPLICATION	
Maintenance Period	10 years
BMP Units	EACH
Required Effects	DIFFERENCE IN BEFORE AND AFTER P APPLICATION RATES (if resource concern is nutrient loss). ACRES_AFFECTED
JAA	The applicant must supply manufacturer documentation to verify system components meet: "ISO 12188 - Tractors and machinery for agriculture and forestry — Test procedures for positioning and guidance systems in agriculture". **AND** SWCC - 590-PAA Precision Agrichemical Application **OR** NRCS - ECS - 590 - Nutrient Management (if the resource concern is nutrient loss). **OR** NRCS - ECS - 595 - Pest Management Conservation System (if the resource concern is pesticide loss).
NRCS Practice Standards	NRCS - ECS - 590 - Nutrient Management. NRCS - ECS - 595 - Pest Management Conservation System
CS2 Reference Materials	NC-ACSP-11 Signature Page Manufacturer documentation to verify the system components meet ISO 12188. Map with BMP location, fields, and roads.

(August 2022, May 2019, August 2015, July 2012)

Precision Agrichemical Application

Definition/Purpose

Precision Agrichemical Application means using a system of components that enable reduction and greater control of fertilizer ~~and~~ or pesticide application. This is accomplished through avoidance of excessive overlapping, unnecessary application to end/turn rows, and more precise control of application rates (DIP).

Policies

1. Cost share for this practice shall be based upon actual cost with a cap. The cap for each tier is additive upon the previous tier. It is acceptable for an applicant who has already adopted a lower tier to receive cost share to adopt higher tiers and receive cost share up to the incremental cap(s).

2. This practice can be used to either retrofit existing application equipment or to replace existing equipment with new equipment with precision technology.

3. The applicable cost share cap for this practice shall be based upon the capabilities of the system according to the following tiers. ~~(~~To qualify for the higher tiers, the applicant must also implement or have already adopted all of the lower tiers~~)~~:

   a. Tier 1: GPS guidance system
      i. Guidance system must have at least sub-meter pass-to-pass accuracy
      ii. System must include the capability to compensate for tilt if used on slopes > 4%.
   b. Tier 2: Automatic Application Rate Control
      i. Rate control system must be capable of recording the application rate data and producing an application map
      ii. Must include automatic correction for ground speed and number of boom sections being used.
   c. Tier 3: Boom section control
      i. Guidance system must have at least sub-meter pass-to-pass accuracy
      ii. The system must have enough controls that the average length of each independently ~~-~~controlled section is no more than 12 feet.

4. Before the applicant can receive payment for this practice, ~~he~~ they must demonstrate operation of properly calibrated equipment while applying agrichemicals.

5. For spot checks, ~~the~~ district staff should either observe the cooperator using the equipment for agrichemical application or view the data stored or downloaded by the control system to ~~insure~~ensure the system is being used.

6. The cooperator may upgrade any component of the precision application system without additional cost share during the maintenance period, as long as the upgraded system has components that are equivalent or better than the system originally cost shared.

(August 2022, May 2019, August 2015, July 2012)

7. This practice is limited to one system per cooperator. However, a cooperator is free to utilize components of the system on multiple pieces of equipment, provided the cooperator can produce the cost shared components for spot checks with adequate advance notice.

8. The ~~C~~cooperator is eligible to receive the precision nutrient management incentive while using this practice.

PRECISION AGRICHEMICAL APPLICATION	
Maintenance Period	10 years
BMP Units	EACH
Required Effects	DIFFERENCE IN BEFORE AND AFTER P APPLICATION RATES (if resource concern is nutrient loss). ACRES_AFFECTED
JAA~~/NRCS Standards unless otherwise noted~~	The applicant must supply manufacturer documentation to verify system components meet: "~~-~~ISO 12188 - Tractors and machinery for agriculture and forestry — Test procedures for positioning and guidance systems in agriculture". **AND** SWCC - 590-PAA Precision Agrichemical Application **OR** NRCS - ECS - 590 - Nutrient Management ~~and the manufacturer specifications showing the equipment meets the policy~~(if the resource concern is nutrient loss). **OR** NRCS - ECS - 595 - Pest Management Conservation System (if the resource concern is pesticide loss).

(August 2022, May 2019, August 2015, July 2012)

NRCS Practice Standards	NRCS - ECS - 590 - Nutrient Management. NRCS - ECS - 595 - Pest Management Conservation System
CS2 Reference Materials	NC-ACSP-11 Signature Page Manufacturer documentation to verify the system components meet ISO 12188. Map with BMP location, fields, and roads.

Detailed Implementation Plan
Fiscal Year 2023

August 16, 2022

AGRICULTURE COST SHARE PROGRAM SUMMARY

The North Carolina Agriculture Cost Share Program (ACSP) was authorized by the General Assembly in 1983 to improve water quality associated with agriculture in three nutrient sensitive watersheds covering 16 counties. In 1990, the program was expanded to include 96 soil and water conservation districts (districts) covering all 100 counties across the state. In FY2023, there are 66 approved best management practices (BMPs) in the ACSP. BMPs include both short-term and long-term practices.

ACSP is administered by the North Carolina Soil and Water Conservation Commission and implemented through local soil and water conservation districts. The commission meets with stakeholders to gather input on ACSP's development and administration through the Technical Review Committee. ACSP currently receives a recurring state appropriation of $4,016,998 for BMP allocation. A separate recurring appropriation in the amount of $2,448,778 is used to support technical assistance funding for districts.

FISCAL YEAR 2023 ANNUAL GOALS

(1) Allocate funds to soil and water conservation districts for all ACSP BMPs.
   a. Award funds to all districts requesting an allocation following 02 NCAC 59D .0103.

(2) Support implementation of a Job Approval Authority process for ACSP BMPs.
   a. Review job approval category requirements to ensure technical competency.
   b. Maintain the job approval database.

(3) Conduct training for districts.
   a. Continue to train districts on the program.
   b. Provide technical training for the required skills to plan and implement approved ACSP BMPs.
   c. Maintain the ACSP website with all relevant information.

DISTRICT ALLOCATIONS

(1) Allocations will be made to all districts requesting funds in their FY2023 Strategy Plan.

(2) Allocation parameters are described 02 NCAC 59D .0103 Agriculture Cost Share Program Financial Assistance Allocation Guidelines and Procedures (Effective January 1, 2020).

Table 1. Allocation parameters

PARAMETER	PERCENT
Percentage of total acres of agricultural land in North Carolina that are in the respective district as reported in the most recent edition of the North Carolina Census of Agriculture.	20%
Percentage of total number of animal units in North Carolina that are in the respective district as reported in the most recent edition of the North Carolina Census of Agriculture and converted to animal units.	20%
Relative rank of the percentage of the county outside of municipal boundaries draining to waters identified as impaired or impacted on the most recent Integrated Report produced by the North Carolina Division Water Resources.	20%
Relative rank of the percentage of the county draining to waters classified as Primary Nursery Areas, Outstanding Resource Waters, High Quality Waters, and Trout Waters on the current schedule of Water Quality Standards and Classifications, Shellfish Harvesting Areas (open) as determined by the Division of Marine Fisheries, and North Carolina Drinking Water Assessment Areas as determined by the Division of Water Resources.	10%
Percentage of program funds allocated to a district that are expended for installed BMPs in the highest three of the most recent seven-year period as reported in the NC Cost Share Contracting System.	20%
Relative rank of the number of acres of highly erodible land in the county as reported by the United States Department of Agriculture Farm Service Agency.	10%

TECHNICAL ASSISTANCE ALLOCATIONS

(1) Allocations for technical assistance shall be based on the recommendation of the Division, the funding requested in the district's strategic plan, and the need to install BMPs in the district.

(2) Each district shall provide at least 50% matching funds for technical assistance.

(3) The allocation is made based on the implementation of conservation practices for which district employees provided technical assistance:
   a. Commission Cost Share Programs funded practices: 100%
   b. Local, State, Federal and grant funded practices that meet the purpose requirements of Commission Cost Share Programs: 25%

c. Allocations are calculated using the highest three of the most recent seven years. This calculation was approved at the February 24, 2021 Commission meeting and is effective this fiscal year.
d. Allocations are calculated once every three years, unless there is a change in technical assistance State appropriations.

(4) Technical assistance funds may be used for any expense of the district in implementing Commission Cost Share Programs.

(5) The minimum allocation for districts with the required match is $20,000. The maximum allocation per district is $30,000.

(6) If a district is not spending more financial assistance funds on Commission Cost Share Programs than they receive for technical assistance, the district will appeal to the Commission to receive technical assistance funding.

(7) All technical district employees shall obtain Job Approval Authority for two BMPs from the Commission or United States Department of Agriculture Natural Resources Conservation Service (USDA-NRCS) within three years of being hired or by January 1, 2023, whichever is later.
a. One BMP must be a design practice as described in Commission Program Detailed Implementation Plans, such as this document, or as defined as an engineering practice by USDA-NRCS.
b. Boards of Supervisors may request a one-year extension for their employees in meeting this requirement for extenuating circumstances outside the employees' control.

BEST MANAGEMENT PRACTICES ELIGIBLE FOR COST SHARE PAYMENTS

(1) The best management practices eligible for cost sharing include the practices listed in Table 2 and any approved District BMPs.

- District BMPs shall be reviewed by the Division for technical merit in achieving the goals of this program. Upon approval by the Division, the District BMPs will be eligible to receive cost share funding as described in 02 NCAC 59D .0106.

(2) The minimum life expectancy of the BMPs shall be that listed in Table 2. Practices designated by a District shall meet the life expectancy requirement established by the Division for that District BMP.

(3) The list of BMPs eligible for cost sharing may be revised by the Soil and Water Conservation Commission as deemed appropriate in order to meet program purpose and goals. Additional practices may be adopted and introduced during the program year.

Table 2. Best management practices eligible for cost sharing, the minimum life expectancy of each practice and the practice type.

PRACTICE	MINIMUM LIFE EXPECTANCY (years)	PRACTICE TYPE
Abandoned Tree Removal	10	AGRONOMIC
Abandoned Well Closure	1	DESIGN
Agrichemical Containment and Mixing Facility	10	DESIGN
Agrichemical Handling Facility	10	DESIGN
Agricultural Pond Repair/Retrofit	10	DESIGN
Agricultural Pond Sediment Removal	1	DESIGN
Agricultural Road Repair/Stabilization	10	DESIGN
Agricultural Water Collection System	10	DESIGN
All-Season Agricultural Access	10	DESIGN
Backflow Prevention System (Chemigation or Fertigation)	10	DESIGN
Closure of Abandoned Waste Impoundment	10	DESIGN
Concentrated Nutrient Source Management System	10	DESIGN
Conservation Cover	6	AGRONOMIC
Constructed Wetland for Land Application	10	DESIGN
Cover Crops	1	AGRONOMIC
Critical Area Planting	10	AGRONOMIC
Cropland Conversion	10	AGRONOMIC
Diversion	10	DESIGN
Drystack	10	DESIGN
Feeding/Waste Storage Structure	10	DESIGN
Field Border	10	AGRONOMIC
Filter Strip	10	AGRONOMIC
Grade Stabilization Structure	10	DESIGN
Grassed Waterway	10	DESIGN
Heavy Use Area Protection	10	DESIGN
Insect Control System	5	DESIGN
Lagoon Biosolids Removal Practice	1	DESIGN
Land Smoothing	5	DESIGN
Livestock Exclusion Fence	10	AGRONOMIC
Livestock Feeding Area	10	DESIGN
Livestock Mortality Management System - Incinerator	5	DESIGN
Livestock Mortality Management System - Other Systems	10	DESIGN

PRACTICE	MINIMUM LIFE EXPECTANCY (years)	PRACTICE TYPE
Manure Composting Facility	10	DESIGN
Manure/Litter Transportation Incentive	1	DESIGN
Micro-Irrigation System	10	DESIGN
Nutrient Management	3	AGRONOMIC
Odor Management System	1 to 10	AGRONOMIC
Pasture Renovation	10	AGRONOMIC
Pastureland Conversion	10	AGRONOMIC
Portable Agrichemical Mixing Station	5	DESIGN
Precision Agrichemical Application	5	AGRONOMIC
Precision Nutrient Management	3	AGRONOMIC
Prescribed Grazing	3	AGRONOMIC
Residue and Tillage Management	1 to 3	AGRONOMIC
Retrofit of On-going Animal Operations	10	DESIGN
Riparian Buffer	10	AGRONOMIC
Rock-lined Waterway or Outlet	10	DESIGN
Rooftop Runoff Management System	10	DESIGN
Sediment Control Basin	10	DESIGN
Sod-based Rotation	3, 4 or 5	AGRONOMIC
Solids Separation from Tank-Based Aquaculture Production	10	DESIGN
Spring Development	10	DESIGN
Stock Trail and Walkway	10	DESIGN
Storm Water Management System	10	DESIGN
Stream Crossing	10	DESIGN
Stream Debris Removal	1	DESIGN
Stream Protection Well	10	DESIGN
Stream Restoration	10	DESIGN
Streambank and Shoreline Protection	10	DESIGN
Stripcropping	5	AGRONOMIC
Terrace	10	DESIGN
Trough or Tank	10	DESIGN
Waste Application System	10	DESIGN
Waste Treatment Lagoon/Storage Pond	10	DESIGN
Water Control Structure	10	DESIGN
Wetlands Restoration System	10	DESIGN

BEST MANAGEMENT PRACTICE DEFINTIONS

Agrichemical Pollution Prevention Practices

(1) **Abandoned tree removal:** Remove Christmas and/or apple tree fields for integrated pest management and for reducing sedimentation. An abandoned tree field can be of any size or age trees where standard management practices (e.g., maintaining groundcover, insect and disease control, fertilizer applications and annual shearing practices) for the production of the trees are discontinued or abandoned. The field must have been abandoned for at least 5 years. Abandonment leads to adverse soil erosion formations such as gullies and to production of disease inoculums and increased pest population. Conversion to perennial vegetation on abandoned fields further protects soil loss by preventing runoff on steep slopes due to a better groundcover thereby providing additional water quality protection. Benefits include water quality protection, prevention of soil erosion, and wildlife habitat establishment.

(2) **Agrichemical containment and mixing facility:** A system of components that provide containment and a barrier to the movement of agrichemicals. The purpose of the system is to provide secondary containment to prevent degradation of surface water, groundwater, and soil from unintentional release of pesticides or fertilizers.

(3) **Agrichemical handling facility:** A permanent structure that provides an environmentally safe means of mixing agrichemicals and filling tanks with agrichemicals for application and storage to improve water quality. Benefits may include prevention of accidental degradation of surface and ground water.

(4) **Chemigation or Fertigation backflow prevention:** A combination of devices (valves, gauges, injectors, drains, etc.) to safeguard water sources from contamination by fertilizers used during the irrigation of agricultural crops. The practice is intended to modify or improve fertilizer injection systems with components necessary to prevent backflow or siphoning of contaminants into the water supply thereby improving and protecting the state's waters.

(5) **Precision agrichemical application:** Using a system of components that enable reduction and greater control of fertilizer or pesticide application. This is accomplished through avoidance of excessive overlapping, unnecessary application to end/turn rows, and more precise control of application rates.

(6) **Portable agrichemical mixing station:** A portable device to be used in the field to prevent the unintentional release of agrichemicals to the environment during mixing and transferring of agrichemicals. Benefits may include prevention of accidental degradation of surface and ground water.

Erosion and Nutrient Management Practices

(1) **Conservation cover:** Establish and maintain a conservation cover of grass, legumes, or other approved plantings on fields previously with no groundcover established, to reduce soil erosion and improve water quality. Other benefits may include reduced offsite sedimentation and pollution from dissolved and sediment-attached substances. Eligible land includes that planted to Christmas Trees, orchards, ornamentals, vineyards and other cropland needing protective cover.

(2) **Cover crop:** A crop of grasses, legumes, small grain or brassicas grown primarily for seasonal vegetative protection, erosion control and soil improvement. Cover crops are typically grown for one year or less. The practice can be implemented to support one or more of the following purposes: reduce erosion from wind and water; reduce water quality degradation by utilizing excessive soil nutrients; improve infiltration of rainfall; maintain or increase soil health and organic matter content; suppress excessive weed pressures and break pest cycles; improve soil moisture use efficiency and/or minimize soil compaction.

(3) **Critical area planting:** An area of highly erodible land that cannot be stabilized by ordinary conservation treatment on which permanent perennial vegetative cover is established and protected to improve water quality. Benefits may include reduced soil erosion and sedimentation.

(4) **Cropland conversion:** To establish and maintain a conservation cover of grasses, trees, or wildlife plantings on fields previously used for crop production to improve water quality. Benefits may include reduced soil erosion, sedimentation and pollution from dissolved and sediment-attached substances.

(5) **Diversion:** A channel constructed across a slope with a supporting ridge on the lower side to control drainage by diverting excess water from an area to improve water quality. Benefits may include reduced soil erosion, sedimentation and pollution from dissolved and sediment-attached substances.

(6) **Land smoothing:** Reshaping the surface of agricultural land to planned grades for the purpose of improving water quality. Improvements to water quality include reduction in nutrient loss; reduction in concentrated flow of water from an agricultural field and improved infiltration.

(7) **Micro-irrigation:** An environmentally safe system for the conveyance and distribution of water, chemicals, and fertilizer to agricultural fields for crop production. A micro-irrigation system is for frequent application of small quantities of water on or below the soil surface as drops, tiny streams, or miniature spray through emitters or applicators placed along a water delivery line. This practice may be applied as part of a conservation management system to support one or more of the following purposes: to efficiently and uniformly apply irrigation water and maintain soil moisture for plant growth; to efficiently and uniformly apply plant nutrients in a manner that protects water quality; to prevent contamination of ground and surface water by efficiently and uniformly applying chemicals and fertilizers and/or to establish desired vegetation.

(8) **Pasture-land conversion:** Establishing trees or perennial wildlife plantings on excessively eroding land with a visible sediment delivery problem to the waters of the state used for pasture that is too steep to mow or maintain with conventional equipment to improve water quality. Benefits may include reduced soil erosion and sedimentation.

(9) **Pasture renovation:** Establish and maintain a conservation cover of grass, where existing pasture vegetation is inadequate. Benefits may include reduced soil erosion, sedimentation and pollution from dissolved and sediment-attached substances.

(10) **Prescribed Grazing:** Managing the intensity, frequency, duration, timing, and number of grazing animals on pastureland in accordance with site production limitations, rate of plant growth, physiological needs of forage plants for production and persistence, and nutritional needs of the

grazing animals. The goal of this practice is to reduce accelerated soil erosion and compaction, to improve or maintain riparian and watershed function, to maintain surface and/or subsurface water quality and quantity, to improve nutrient distribution, and to improve or maintain desired species composition and vigor of plant communities. Productive pastures maintain wildlife habitat and permeable green space.

(11) **Residue and Tillage management:** Maintaining crop and other plant residue on the soil surface year-round and limiting soil disturbing activities to protect water quality. Residue and tillage management also provides seasonal soil protection from wind and rain erosion, adds organic matter to the soil, conserves soil moisture, and improves infiltration, aeration and tilth. Benefits may include reduction in soil erosion, sedimentation and pollution from sediment-attached substances.

(12) **Rooftop runoff management:** A system of collection and stabilization practices (dripline stabilization, guttering, collection boxes, etc.) to prevent rainfall runoff from agricultural rooftops from causing erosion where vegetative practices are insufficient to address erosion concerns and protect water quality.

(13) **Sod-based rotation:** An adapted sequence of crops, grasses and legumes or a mixture thereof established and maintained for a definite number of years as part of a conservation cropping system which is designed to provide adequate organic residue for maintenance or improvement of soil tilth to improve water quality. Benefits may include reduced soil erosion, sedimentation and pollution from dissolved and sediment-attached substances.

(14) **Stripcropping:** To grow crops and sod in a systematic arrangement of alternating strips or bands on the contour to improve water quality. Benefits may include reduced soil erosion, sedimentation, and pollution from dissolved and sediment-attached substances. The crops are arranged so that a strip of grass or close-growing crop is alternated with a strip of clean-tilled crop, fallow, or no-till crop, or a strip of grass is alternated with a close-growing crop.

(15) **Terraces:** An earth embankment, a channel, or a combination ridge and channel constructed across the slope to improve water quality. Benefits may include reduced soil erosion, sedimentation, and pollution from dissolved and sediment-attached substances.

(16) **Stream debris removal:** The removal of vegetation along the bank (clearing) and/or selective removal of snags, drifts, or other obstructions (snagging) from natural or improved channels and streams.

(17) **Wetland restoration system:** A system of practices designed to restore the natural hydrology of an area that had been drained and cropped.

<u>Sediment and Nutrient Management Practices</u>

(1) **Abandoned well closure:** The sealing and permanent closure of a supply well no longer in use. This practice serves to prevent entry of contaminated surface water, animals, debris, or other foreign substances into the well. It also serves to eliminate the physical hazards of an open hole to people, animals, and farm machinery.

(2) **Agricultural pond repair/retrofit:** To restore or repair existing failing agricultural pond systems. Benefits may include erosion control, flood control, and sediment and nutrient reductions from farm fields for better water quality. This practice is only applicable to low hazard classification ponds.

(3) **Agricultural pond sediment removal:** Remove sediment from existing agricultural ponds to increase water storage capacity. Benefits may include water supply, erosion control, flood control, and sediment and nutrient reductions from farm fields

(4) **Agricultural road repair/stabilization:** Repair or stabilization of existing access roads utilized for agricultural operations, including roads to existing crop fields, pastures, and barns.

(5) **Agricultural Water Collection System:** Construct an agricultural water collection system for water reuse or irrigation to improve water quality. These systems may include construction of new ponds, utilizing existing ponds, water storage tanks and pumps in order to intercept sediment, nutrients, manage chlorophyll a. These systems may have the added benefit of reducing the demand on the water supply and decreasing withdrawal from aquifers, but these benefits shall not be the justification for this practice.

(6) **All-season Agricultural Access:** An accompanying best management practice (BMP) to provide stabilized access to agriculture BMPs to reduce erosion and improve water quality. This accompanying BMP is not intended to be used to construct new roads.

(7) **Field border:** A strip of perennial vegetation established at the edge of the field that provides a stabilized outlet for row water to improve water quality. Benefits may include reduced soil erosion, sedimentation and pollution from dissolved and sediment-attached substances.

(8) **Filter strip:** An area of permanent perennial vegetation for removing sediment, organic matter, and other pollutants from runoff and wastewater to improve water quality. Benefits may include reduced soil erosion, sedimentation, pathogen contamination and pollution from dissolved, particulate, and sediment-attached substances.

(9) **Grade stabilization structure:** A structure (earth embankment, mechanical spillway, detention-type, etc.) used to control the grade and head cutting in natural or artificial channels to improve water quality. Benefits may include reduced soil erosion and sedimentation.

(10) **Grassed waterway:** A natural or constructed channel that is shaped or graded to required dimensions and established in suitable vegetation for the stable conveyance of runoff to improve water quality. Benefits may include reduced soil erosion, sedimentation and pollution from dissolved and sediment-attached substances.

(11) **Nutrient management:** A definitive plan to manage the amount, form, placement, and timing of applications of nutrients to minimize entry of nutrients to surface and groundwater and improve water quality.

(12) **Precision nutrient management:** Applying nitrogen; phosphorus and lime in a site-specific manner (with specialized application equipment or multiple application events) based on the site-specific

recommendations for each GPS-referenced sampling point to minimize entry of nutrients to surface and groundwater and improve water quality.

(13) **Riparian buffer:** A permanent, long-lived vegetative cover (grass, shrubs, trees, or a combination of vegetation types) established adjacent to and up-gradient from watercourses or water bodies to improve water quality. Benefits may include reduced soil erosion and nutrient delivery, sedimentation, pathogen contamination and pollution from dissolved, particulate and sediment-attached substances.

(14) **Rocklined outlet:** A waterway having an erosion-resistant lining of concrete, stone or other permanent material where an unlined or grassed waterway would be inadequate to improve water quality. Benefits may include safe disposal of runoff, reduced erosion and sedimentation.

(15) **Sediment basin:** A basin constructed to trap and store waterborne sediment where physical conditions or land ownership preclude treatment of a sediment source by the installation of other erosion control measures to improve water quality.

(16) **Stream restoration:** The use of bioengineering practices, native material revetments, channel stability structures, and/or the restoration or management of riparian corridors in order to protect upland BMPs, restore the natural function of the stream corridor and improve water quality by reducing sedimentation to streams from streambank.

(17) **Streambank and shoreline protection:** The use of vegetation to stabilize and protect banks of streams, lakes, estuaries, or excavated channels against scour and erosion. This practice should be used to prevent the loss of land or damage to utilities, roads, buildings, or other facilities adjacent to the banks, to maintain the capacity of the channel, to control channel meander that would adversely affect downstream facilities, to reduce sediment load causing downstream damages and pollution, or to improve the stream for recreation or fish and wildlife habitat.

(18) **Water control structure:** A permanent structure placed in a farm canal, ditch, or subsurface drainage conduit (drain tile or tube), which provides control of the stage or discharge of surface and/or subsurface drainage. The management mechanism of the structure may be flashboards, gates, valves, risers, or pipes. The primary purpose of the water control structure is to improve water quality by elevating the water table and reducing drainage outflow. A secondary purpose is to restore hydrology in riparian buffers to the extent practical. Elevating the water table promotes denitrification and lower nitrate levels in drainage water from cropping systems and minimizes the effects of short-circuiting of drainage systems passing through riparian buffers. Other benefits may include reduced pollution from other dissolved and sediment-attached substances, reduced downstream sedimentation and reduced stormwater surges of fresh water into estuarine areas. This practice is not intended to be used to control water inflow from tidal influence (i.e., no tide gates).

<u>Stream Protection Management Practices</u>

(1) **Heavy use area protection:** An area used frequently and intensively by animals, which must be stabilized by surfacing with suitable materials to improve water quality. Benefits may include reduced soil erosion, sedimentation and pollution from dissolved, particulate, and sediment-attached substances.

(2) **Livestock exclusion fencing:** A system of permanent fencing (board, barbed, high tensile or electric wire) installed to exclude livestock from streams and critical areas not intended for grazing to improve water quality. Benefits may include reduced soil erosion, sedimentation, pathogen contamination and pollution from dissolved, particulate, and sediment-attached substances.

(3) **Livestock feeding area:** A sized concrete pad where feeders are located, surrounded by a heavy use area. The livestock feeding area is designed for the purpose of improving the lifespan of the heavy use area and to reduce the runoff of nutrients and fecal coliform to adjacent water bodies. The practice is to be used to address water quality concerns where livestock feeding areas are in close proximity to streams and where relocation or rotation of feeding areas is infeasible due to physical limitations (e.g., slope) and where other stream protection measures are insufficient to protect water quality.

(4) **Spring development**: Improving springs and seeps by excavating, cleaning, capping or providing collection and storage facilities.

(5) **Stocktrails and walkways:** Provide a stable area used frequently and intensively for livestock movement by surfacing with suitable material to improve water quality. Benefits may include reduced soil erosion, sedimentation and pollution from dissolved, particulate, and sediment-attached substances.

(6) **Stream crossing:** A trail constructed across a stream to allow livestock to cross without disturbing the bottom or causing soil erosion on the banks.

(7) **Trough or tank:** Devices installed to provide drinking water for livestock at a stabilized location.

(8) **Stream Protection Well:** Constructing a drilled, driven or dug well to supply water from an underground source.

Waste Management Practices

(1) **Closure of waste impoundments:** The safe removal of existing waste and wastewater and the application of this waste on land in an environmentally safe manner. This practice is only applicable to waste storage ponds and lagoons.

(2) **Concentrated nutrient source management system:** A system of vegetative and structural measures used to manage the collection, storage, and/or treatment of areas where agricultural products may cause an area of concentrated nutrients. Examples could include sweet potato culls and silage leachate.

(3) **Constructed wetlands:** An artificial wetland area into which liquid animal waste from a waste storage pond or lagoon is dispersed over time to lower the nutrient content of the liquid animal waste.

(4) **Dry stack:** A fabricated structure for temporary storage of animal waste.

(5) **Feeding/waste storage structure:** A structure designed for improving the collection/storage of animal waste and to reduce runoff of nutrients and fecal coliform to adjacent water bodies. The practice is intended to be used where livestock feeding areas are in close proximity to streams and

where relocation or rotation of feeding areas is infeasible due to physical limitations (e.g., slope) and where other stream protection measures are insufficient to address water quality concerns.

(6) **Insect control system:** A practice or combination of practices (planting windbreaks, pre-charging structures, incorporation of waste into soil, etc.) which manages or controls insects from confined animal operations, waste treatment and storage structures, and waste applied to agricultural land.

(7) **Lagoon biosolids removal:** Removing accumulated biosolids from active lagoons. The biosolids will be properly utilized on farmland or forestland or processed to a value-added product, including energy production, to reduce nutrient impacts from nitrogen-only based planning and impacts of phosphorus accumulation on application land.

(8) **Livestock mortality management system:** A facility for managing livestock mortalities such as to minimize water quality impacts or to produce a material that can be recycled as a soil amendment and fertilizer substitute. Cost shareable mortality management system components include composter, rotary drum composter, forced aeration static pile composter, mortality freezer/refrigeration unit and mortality incinerator system.

(9) **Manure composting facility:** A facility for the biological treatment, stabilization and environmentally safe storage of organic waste material (such as manure from poultry and livestock) to minimize water quality impacts and to produce a material that can be recycled as a soil amendment and fertilizer substitute.

(10) **Manure/litter transportation:** Transporting dry litter and dry manure from livestock and poultry farms that lack sufficient land to effectively utilize the animal-derived nutrients. The litter/manure will be properly utilized on alternative land or processed to a value-added product, including energy production, to reduce nutrient impacts.

(11) **Odor control management system:** A practice or combination of practices (planting windbreaks, pre-charging structures, incorporation of waste into soil, etc.) which manages or controls odors from confined animal operations, waste treatment and storage structures and waste applied to agricultural land and improves air quality by reducing and intercepting airborne particulate matter, chemical drift and odor.

(12) **Retrofit of on-going animal operations:** Modification of structures to increase storage or to correct design flaws to meet current standards. This practice may also be used to close waste impoundments on on-going operations, including the safe removal of existing waste and wastewater and the application of this waste on land in an environmentally safe manner.

(13) **Solids separation from tank/raceway-based aquaculture production:** A facility for the removal, storage and dewatering of solid waste from the effluent of intensive tank-based aquaculture production systems. The system is used to capture organic solids from the effluent stream of intensive fish production systems that would otherwise flow to effluent ponds for storage and further treatment. This waste comes from uneaten feed and feces generated by fish while being fed within a tank-or raceway-based fish farm.

(14) **Storm water management system:** A system of collection and diversion practices (guttering, collection boxes, diversions, etc.) to prevent unpolluted storm water from flowing across concentrated waste areas on animal operations.

(15) **Waste Application Systems:** An environmentally safe system (such as solid set, dry hydrant, mobile irrigation equipment, etc.) for the conveyance and distribution of animal wastes from waste treatment and storage structures to agricultural fields as part of an irrigation and waste utilization plan.

(16) **Waste treatment lagoon/storage pond:** An impoundment made by excavation or earth fill for biological treatment and storage of animal waste.

ATTACHMENT 11B

ABANDONED TREE REMOVAL

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
327-ATR	Abandoned Tree Removal	Purpose	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form.	1. Knowledge of NC's Crops and Cropping Systems. 2. Knowledge of Soil Health and Management. 3. Ability to use Current Wind and Water Erosion Prediction Tools. 4. Knowledge of Tillage Systems used in NC. 5. Knowledge of Wildlife Management and Adaptive Plant Species.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

AGRICULTURAL ROAD REPAIR / STABILIZATION

PRACTICE DESCRIPTION				JOB CLASSES				
Code	Practice	Controlling Factor	Units	Job Class I	Job Class II	Job Class III	Job Class IV	Job Class V
560	Agricultural Road Repair / Stabilization	Purpose	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS	
Prerequisites	**Practice Knowledge, Skills, Abilities (KSAs)**
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete "The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. Working knowledge of Web Soil Survey, Suitabilities and Limitations Ratings. 5. Capability to perform layout and construction checking following applicable procedures and Notekeeping format contained in Technical Release 62.	1. Knowledge of NRCS Construction Specification 21 - Excavation and 23 - Earthfill. 2. Ability to Assess site soil conditions and prescribe treatment and the appropriate vegetation. 3. Installation inspection of actual materials used (NEM Part 512 - Construction, Subpart C – Evaluation of Construction Materials, 512.20 through 512.23; Subpart D - Quality Assurance Activities, 512.33). 4. Development of as-built or "red-line" drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52). 5. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3).

PRACTICE PHASES		
INVENTORY AND EVALUATION (I&E)	**DESIGN (D)**	**CONSTRUCTION & CERTIFICATION (C&C)**
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client's objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the "Design" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the "Installation" & "Check Out" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form ("Conservation Practice Certification Form") or comparable form.

ATTACHMENT 11B

ALL-SEASON AGRICULTURAL ACCESS

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
561-ASAA	All-Season Agricultural Access	Purpose	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete "The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. Working knowledge of Web Soil Survey, Suitabilities and Limitations Ratings. 5. Capability to perform layout and construction checking following applicable procedures and Notekeeping format contained in Technical Release 62.	1. Knowledge of NRCS Construction Specification 21 - Excavation and 23 - Earthfill. 2. Ability to Assess site soil conditions and prescribe treatment and the appropriate vegetation. 3. Installation inspection of actual materials used (NEM Part 512 - Construction, Subpart C – Evaluation of Construction Materials, 512.20 through 512.23; Subpart D - Quality Assurance Activities, 512.33). 4. Development of as-built or "red-line" drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52). 5. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3).

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client's objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the "Design" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the "Installation" & "Check Out" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form ("Conservation Practice Certification Form") or comparable form.

ATTACHMENT 11B

BASEFLOW INTERCEPTOR (STREAMSIDE PICKUP)

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
574-BI-AW	Baseflow Interceptor (streamside pickup)	Purpose	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete "The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. Working knowledge of Web Soil Survey, Suitabilities and Limitations Ratings. 5. Capability to perform layout and construction checking following applicable procedures and Notekeeping format contained in Technical Release 62.	1. Knowledge of NRCS Construction Specification 21 - Excavation and 23 - Earthfill. 2. Ability to Assess site soil conditions and prescribe treatment and the appropriate vegetation. 3. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). 4. Development of as-built or "red-line" drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52). 5. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3).

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client's objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the "Design" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the "Installation" & "Check Out" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form ("Conservation Practice Certification Form") or comparable form.

Closure of Abandoned Waste Impoundment

ATTACHMENT 11B

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
360	Closure Impoundment	Storage After Closure *	Gallons	0				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employees must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for the highest level of complexity for which they wish to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Working Knowledge of Web Soil Survey, Suitabilities and Limitations Ratings 4. Working knowledge in the analysis and interpretation of soil test and waste analysis results. 5. NCSU Nutrient Management in NC Course which includes: (1) the online prerequisite; (2) 5-days of nutrient management-related course work, including PLAT, RUSLE2 and software trainings; and (3) NC Rules and Regulations Governing Animal Waste Management in NC training, along with a passing score on the exams given at the conclusion of each section. 6. Working knowledge in the Agricultural Waste Management Field Handbook (Title 210, Part 651). 7. JAA for Code 590, Nutrient Management. 8. Waste Utilization Planning/Nutrient Management (WUP/NM) Technical Specialist Designation. 9. Working knowledge of practices needed to control erosion on disturbed areas (Standard 342). * If storage of fresh water is to be maintained after verification of waste removal, a PE must be involved with spillway design and 360 JAA is not applicable.	1. Ability to perform a sludge survey to determine volume estimates of waste removal. 2. Ability to collect soil samples and interpret soil test reports for recommendations. 3. Knowledge of NC's crops and cropping systems. 4. Knowledge of tillage systems used in NC. 5. Knowledge to assess the risk of nitrogen leaching loss, the nitrogen Leaching Index, obtained through use of current Soil Hydrologic Group (SHG)-based LI index maps in Section II of the NC FOTG OR RUSLE 2 field specific soil loss calculations. 6. Ability to perform Nitrogen and Phosphorus Risk Assessments using NCANAT (NLEW+PLAT) in the NC Nutrient Management Planning Software. 7. Ability to assess site soil conditions and prescribe treatment and the appropriate vegetation. 8. Knowledge of manure characteristics and nutrient values. 9. Ability to read, interpret, and use waste impoundment as-built designs to develop a closure plan. 10. Skill for development of related computations and analyses to develop closure plans and specifications including but not limited to geology, soil mechanics, hydraulics, structural design, vegetation, and soil bioengineering. 11. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3).

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to indentify and document resource concerns using the latest NRCS-CPA -52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps of land application fields. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client's objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Independently complete a minimum of two sludge surveys on separate Planning Land Units (PLU) to identify and document resource needs and concerns. 4. Collect the appropriate Soil Samples and RUSLE field data on each land application field to receive animal waste to identify and document resource needs and concerns. 5. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two waste impoundment closure nutrient management plans on separte Planning Land Units (PLU) in accordance with the most recent NRCS 360 Standard and SWCC Closure-Waste Impoundment BMP and Policies. Plans should include maps of application fields and associated setbacks, sludge survey information, soil samples, PLAT results, copper and zinc projections and narrative explaining closure methodology. 2. Independently fulfill/complete the "Design" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP policy and NRCS 360 standard. 2. Independently fullfull/complete the "Installation" & "Check Out" deliverables in accordance with the most recent eFOTG practice State of Work (SOW) or comparable SWCC forms(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form ("Conservation Practice Certification Form") or Comparable form. 4. Independently complete a minimum of two NC DWR Animal Waste Storage Pond and Lagoon Closure Report forms on separte Planning Land Units (PLU) in accordance with NC DWR policies.

ATTACHMENT 11B

CONSERVATION COVER

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
327	Conservation Cover	Purpose	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form.	1. Knowledge of NC's Crops and Cropping Systems. 2. Knowledge of Soil Health and Management. 3. Ability to use Current Wind and Water Erosion Prediction Tools. 4. Knowledge of Tillage Systems used in NC. 5. Knowledge of Wildlife Management and Adaptive Plant Species.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

COVER CROP

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
340	Cover Crop	Species Planted (Species Mix)	Number	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form.	1. Knowledge of NC's Crops and Cropping Systems. 2. Knowledge of Soil Health and Management. 3. Ability to use Current Wind and Water Erosion Prediction Tools. 4. Knowledge of Tillage Systems used in NC. 5. Knowledge of Adaptive Species of Cover Crops for Planned Purposes in NC. 6. Knowledge of Approved Planting Dates, Times and Methods of Termination for Cover Crops. 7. Working knowledge of “Managing Cover Crops Profitability”. 8. Ability to select species based on the client objectives.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

CROP RESIDUE MANAGEMENT

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
340-CRM	Crop Residue Management	Species Planted (Species Mix)	Number	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form.	1. Knowledge of NC's Crops and Cropping Systems. 2. Knowledge of Soil Health and Management. 3. Ability to use Current Wind and Water Erosion Prediction Tools. 4. Knowledge of Tillage Systems used in NC. 5. Knowledge of Adaptive Species of Cover Crops for Planned Purposes in NC. 6. Knowledge of Approved Planting Dates, Times and Methods of Termination for Cover Crops. 7. Working knowledge of “Managing Cover Crops Profitability”. 8. Ability to select species based on the client objectives.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

CROPLAND CONVERSION

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
512	Cropland Conversion	Forage species, class or mix	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form.	1. Knowledge of adapted forage plants for the ecological sites/forage suitability groups in the area of service. 2. Skill in planning the planting protocols and educating land users in the operation and maintenance for the practice/operation/site.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

DIVERSION

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
362	Diversion	Purpose	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. Working knowledge of Web Soil Survey, Suitabilities and Limitations Ratings. 5. Capability to perform layout and construction checking following applicable procedures and Notekeeping format contained in Technical Release 62.	1. Knowledge of NRCS Construction Specification 21 - Excavation and 23 - Earthfill. 2. Ability to Assess site soil conditions and prescribe treatment and the appropriate vegetation. 3. Development of related computations and analyses to develop plans and specifications including but not limited to hydrology/hydraulics, vegetation, environmental considerations, and outlet capacity and stability. 4. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). 5. Development of as-built or “red-line” drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52). 6. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3).

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

FIELD BORDER

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
386	Field Border	Purpose	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form.	1. Knowledge of Vegetation Appropriate for Field Borders. 2. Ability to Assess Site Conditions to Plan and Apply Field Borders. 3. Knowledge of Species and Vegetation Management for Wildlife & Pollinators.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

FILTER STRIP

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
393	Filter Strip	Area	Acres	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. Working knowledge using the Excel Filter Strip Lifespan Design Spreadsheet. 5. Working knowledge of the application of Agronomy Technical Note no. 2 Using RUSLE2 for the Design and Predicted Effectiveness of Vegetative Filter Strips (VFS) or Sediment.	1. Knowledge of Vegetation Appropriate for Filter Strips. 2. Ability to Assess Site Conditions to Plan and Apply Filter Strips. 3. Knowledge of Species and Vegetation Management for Wildlife & Pollinators. 4. Knowledge of the Management Needed to Attain the Purpose(s) of the Filter Strips. 5. Ability to Layout a Filter Strip to Meet its Intended Purpose(s).

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form. 4. Plan specification must include use of the Excel Filter Strip Lifespan Design Spreadsheet.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form. 4. Plan specification must include use of the Excel Filter Strip Lifespan Design Spreadsheet.

GRADE STABILIZATION STRUCTURE **ATTACHMENT 11B**

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
410	Grade Stabilization Structure	Hazard Class Effective Height (EH) Storage x EH Drainage Area Conduit Diameter	 feet acre-feet^2 acres inches	A 15 500 100 12	A 20 1,000 400 24	A 25 2,000 1,000 36	A 30 2,500 2,500 42	A 35 3,000 4,000 48

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. Working knowledge of Web Soil Survey, Suitabilities and Limitations Ratings. 5. Capability to perform layout and construction checking following applicable procedures and Notekeeping format contained in Technical Release 62.	1. Knowledge of NRCS Construction Specification 21 - Excavation and 23 - Earthfill. 2. Knowledge of structures including embankments, full-flow open type, island type, side inlet, open weir, and pipe drops. 3. Development of related computations and analyses to develop plans and specifications including but not limited to geology, soil mechanics, hydrology, hydraulics, structural design, vegetation, environmental and safety considerations. 4. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). 5. Development of as-built or “red-line” drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52). 6. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3).

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

GRASSED WATERWAY **ATTACHMENT 11B**

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
412	Grassed Waterway	Purpose	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. Working knowledge of Web Soil Survey, Suitabilities and Limitations Ratings. 5. Capability to perform layout and construction checking following applicable procedures and Notekeeping format contained in Technical Release 62.	1. Knowledge of NRCS Construction Specification 21 - Excavation and 23 - Earthfill. 2. Ability to assess methods for conveying runoff from terraces, diversions, or other water concentrations without causing erosion or flooding. 3. Development of related computations and analyses to develop plans and specifications including but not limited to hydrology/hydraulics, vegetation, seedbed preparation, soil amendments, environmental considerations, and outlet capacity and stability. 4. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). 5. Development of as-built or “red-line” drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52). 6. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

HEAVY USE AREA PROTECTION

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
561	Heavy Use Area Protection	Purpose	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. Working knowledge of Web Soil Survey, Suitabilities and Limitations Ratings. 5. Capability to perform layout and construction checking following applicable procedures and Notekeeping format contained in Technical Release 62.	1. Knowledge of NRCS Construction Specification 21 - Excavation and 23 - Earthfill. 2. Ability to Assess site soil conditions and prescribe treatment and the appropriate vegetation. 3. Practice standard criteria-related computations and analyses to develop plans and specifications including but not limited to standard drawing(s) or other approved site-specific drawing(s) and the NC approved spreadsheet 561_NC_GD_Heavy_Use_Area_ProtectionFeeding_Site_Assessment_Tool_v_7_2015.xlxs or equivalent. 4. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). 5. Development of as-built or “red-line” drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52). 6. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3).

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

Lagoon Biosolids Removal

ATTACHMENT 11B

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
590-LBR	Biosolids Removal	Nutrient Source, Application Method and/or Special Conditions	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employees must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for the highest level of complexity for which they wish to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Working Knowledge of Web Soil Survey, Suitabilities and Limitations Ratings 4. Working knowledge in the analysis and interpretation of soil test and waste analysis results. 5. NCSU Nutrient Management in NC Course which includes: (1) the online prerequisite; (2) 5-days of nutrient management-related course work, including PLAT, RUSLE2 and software trainings; and (3) NC Rules and Regulations Governing Animal Waste Management in NC training, along with a passing score on the exams given at the conclusion of each section. 6. Working knowledge in the Agricultural Waste Management Field Handbook (Title 210, Part 651). 7. JAA for Code 590, Nutrient Management	1. Ability to perform a sludge survey to determine volume estimates of biosolids removal. 2. Ability to collect soil samples and interpret soil test reports for recommendations. 3. Knowledge of NC's crops and cropping systems. 4. Knowledge of tillage systems used in NC. 5. Knowledge to assess the risk of nitrogen leaching loss, the nitrogen Leaching Index, obtained through use of current Soil Hydrologic Group (SHG)-based LI index maps in Section II of the NC FOTG OR RUSLE 2 field specific soil loss calculations. 6. Ability to perform Nitrogen and Phosphorus Risk Assessments using NCANAT (NLEW+PLAT) in the NC Nutrient Management Planning Software. 7. Ability to assess site soil conditions and prescribe treatment and the appropriate vegetation. 8. Knowledge of manure characteristics and nutrient values. 9. Ability to read, interpret, and use waste impoundment as-built designs to develop a removal plan. 10. Skill for development of related computations and analyses to develop a biosolids removal plan and specifications including but not limited to geology, soil mechanics, hydraulics, structural design, vegetation, and soil bioengineering. 11. Certification the installation meets applicable standards and specifications and is in compliance with

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to indentify and document resource concerns using the latest NRCS-CPA -52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps of land application fields. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client's objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Independently complete a minimum of two sludge surveys on separate Planning Land Units (PLU) to identify and document resource needs and concerns. 4. Collect the appropriate Soil Samples and RUSLE field data on each land application field to receive animal waste to identify and document resource needs and concerns.	1. Independently complete a minimum of two Biosolids removal nutrient management plans on separte Planning Land Units (PLU) in accordance with the most recent NRCS 590 Standard and SWCC Lagoon Biosolids Remvoal BMP and Policies. Plans should include maps of application fields and associated setbacks, sludge survey information, soil samples, PLAT results, copper and zinc projections and narrative explaining biosolids removal methodology. 2. Independently fulfill/complete the "Design" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP policy and NRCS 590 standard. 2. Independently fullfull/complete the "Installation" & "Check Out" deliverables in accordance with the most recent eFOTG practice State of Work (SOW) or comparable SWCC forms(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form ("Conservation Practice Certification Form") or Comparable form.

ATTACHMENT 11B

LIVESTOCK EXCLUSION FENCE

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
382	Livestock Exclusion Fence	Fence type and land slope	Type, %	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Working knowledge using the NC NRCS Fence Job Sheet Application. 4. Capability to complete "The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form.	1. Knowledge of conservation practice standard 382. 2. Knowledge of livestock management for grazing lands of the locale. 3. Knowledge of wildlife relationships with fence in the locale. 4. Knowledge of grazing management issues in the locale.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client's objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the "Design" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the "Installation" & "Check Out" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form ("Conservation Practice Certification Form") or comparable form.

ATTACHMENT 11B

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
316	Livestock Mortality Management System	Animal Mortality	LBS. per Day	Freezer/ Refridgeration Unit	Incinerator			

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. Working knowledge of Web Soil Survey, Suitabilities and Limitations Ratings. 5. Capability to perform layout and construction checking following applicable procedures and Notekeeping format contained in Technical Release 62. 6. Knowledge of the NC GS 106-403 “Disposition of dead domesticated animals”. Administrative code 02 NCAC 52C .0102 “Disposal of Dead Animals”	1. Ability to assess soil suitability. 2. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). 3. Development of as-built or “red-line” drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52). 4. Ability to follow Practice standard criteria, related computations and analyses to develop plans and specifications for incinerators,including but not limited to type and number of livestock. 5. Knowledge of N.C. permiting requirements for Mortality Management. 6. Ability to Certify the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3 7. Ability to calculate normal maximum mortality of an operation.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP policy and NRCS 316 standard. 2. Independently fullfull/complete the "Installation" & "Check Out" deliverables in accordance with the most recent eFOTG practice State of Work (SOW) or comparable SWCC forms(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form ("Conservation Practice Certification Form") or Comparable form.

ATTACHMENT 11B

LONG TERM NO-TILL

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
329	Long Term No-Till	Crop, Production Method	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form.	1. Knowledge of NC's Crops and Cropping Systems. 2. Knowledge of Soil Health and Management. 3. Ability to use Current Wind and Water Erosion Prediction Tools. 4. Knowledge of Tillage Systems used in NC. 5. Knowledge of No till Planters and Drills. 6. Knowledge of Crop Residue Management. 7. Knowledge of Soils and Soil Management for No Till.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

Manure/Litter Transport Incentive

ATTACHMENT 11B

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
590-MLTI	Manure/Litter Transportation	Nutrient Source, Application Method and/or Special Conditions	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employees must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for the highest level of complexity for which they wish to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Working Knowledge of Web Soil Survey, Suitabilities and Limitations Ratings 4. Working knowledge in the analysis and interpretation of soil test and waste analysis results. 5. NCSU Nutrient Management in NC Course which includes: (1) the online prerequisite; (2) 5-days of nutrient management-related course work, including PLAT, RUSLE2 and software trainings; and (3) NC Rules and Regulations Governing Animal Waste Management in NC training, along with a passing score on the exams given at the conclusion of each section. 6. Working knowledge in the Agricultural Waste Management Field Handbook (Title 210, Part 651). 7. Working knowledge of the 1217 Interagency Committee Guidance Document. 8. JAA for Code 590, Nutrient Management.	1. Knowledge of Manure/Litter waste transportation methods and equipment. 2. Ability to collect soil samples and interpret soil test reports for recommendations. 3. Knowledge of NC's crops and cropping systems. 4. Knowledge of tillage systems used in NC. 5. Knowledge to assess the risk of nitrogen leaching loss, the nitrogen Leaching Index, obtained through use of current Soil Hydrologic Group (SHG)-based LI index maps in Section II of the NC FOTG OR RUSLE 2 field specific soil loss calculations. 6. Ability to perform Nitrogen and Phosphorus Risk Assessments using NCANAT (NLEW+PLAT) in the NC Nutrient Management Planning Software. 7. Ability to assess site soil conditions and prescribe treatment and the appropriate vegetation. 8. Knowledge of manure characteristics and nutrient values. 9. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3).

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to indentify and document resource concerns using the latest NRCS-CPA -52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps of land application fields. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client's objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Collect the appropriate Soil Samples and RUSLE field data on each land application field to receive animal waste to identify and document resource needs and concerns. 4. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two nutrient management plans on separte Planning Land Units (PLU) in accordance with the most recent NRCS 590 Standard and SWCC Manure/Litter Transportation BMP and Policies. Plans should include maps of application fields and associated setbacks, waste production information, soil samples, PLAT results, and narrative explaining the livestock or poultry operation. 2. Independently fulfill/complete the "Design" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP policy and NRCS 590 standard. 2. Independently fullfull/complete the "Installation" & "Check Out" deliverables in accordance with the most recent eFOTG practice State of Work (SOW) or comparable SWCC forms(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form ("Conservation Practice Certification Form") or Comparable form.

NUTRIENT MANAGEMENT

ATTACHMENT 11B

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
590-NM	Nutrient Management	Nutrient source, application method and/or special condition	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites

1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA.
2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies.
3. Working knowledge in the analysis and interpretation of soil test and waste analysis results.
4. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form.
5. NCSU Nutrient Management in NC Course which includes: (1) the online prerequisite; (2) 5-days of nutrient management-related course work; and (3) a passing score on the exam given at the conclusion of the course; Working knowledge in the Agricultural Waste Management Field Handbook (Title 210, Part 651).
6. Appropriate JAA for practices needed to control erosion to a sustainable level (T) on land application sites (If applicable Practice Codes: 342, 329, 328, 340, 386,...).

Practice Knowledge, Skills, Abilities (KSAs)

1. Knowledge of NC's Crops and Cropping Systems.
2. Knowledge of Soil Health and Management.
3. Ability to use Current Wind and Water Erosion Prediction Tools.
4. Knowledge of Tillage Systems used in NC.
5. Knowledge of Synthetic Fertilizers and Analysis.
6. Knowledge of Manure Characteristics and Nutrient Values.
7. Completion of the NCSU Nutrient Management Planning Course.
8. Ability to Perform Nitrogen and Phosphorus Risk Assessments using NCANAT (NLEW+PLAT) and/or latest web-based NC Nutrient Management Software.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)

1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps.

2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU).

3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.

DESIGN (D)

1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies.

2. Independently fulfill/complete two Nutrient Management Plans in accordance with the most recent SWCC BMP standard. (Note- plan should include use of PLAT, erosion prediction result for planned fields, and latest NC CNMP checklist.)

3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.

CONSTRUCTION & CERTIFICATION (C&C)

1. Independently complete a minimum of two construction/certification "check-outs" for two applied Nutrient Management Plans on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies.

2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s).

3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

NUTRIENT SCAVENGER COVER CROP

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
340-NSCC	Nutrient Scavenger Cover Crop	Species Planted (Species Mix)	Number	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form.	1. Knowledge of NC's Crops and Cropping Systems. 2. Knowledge of Soil Health and Management. 3. Ability to use Current Wind and Water Erosion Prediction Tools. 4. Knowledge of Tillage Systems used in NC. 5. Knowledge of Adaptive Species of Cover Crops for Planned Purposes in NC. 6. Knowledge of Approved Planting Dates, Times and Methods of Termination for Cover Crops. 7. Working knowledge of “Managing Cover Crops Profitability”. 8. Ability to select species based on the client objectives.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

ODOR MANAGEMENT SYSTEM

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
380	Odor Management System	Purpose(s)	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete "The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. When applicable, appropriate JAA for supporting practices (i.e. Tree/Shrub Site Preparation (PC490) and Tree/Shrub Establishment (PC612)).	1. Knowledge of windbreak/shelterbelt design and function, including snow management if applicable. 2. Knowledge of forest ecology and management for the local area. 3. Knowledge of crops protected by windbreaks and shelterbelts. 4. Knowledge of silvics of tree species to be established.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client's objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the "Design" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the "Installation" & "Check Out" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form ("Conservation Practice Certification Form") or comparable form.

ATTACHMENT 11B

PASTURE RENOVATION

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
512-PR	Pasture Renovation	Forage species, class or mix	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form.	1. Knowledge of adapted forage plants for the ecological sites/forage suitability groups in the area of service. 2. Skill in planning the planting protocols and educating land users in the operation and maintenance for the practice/operation/site.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

PASTURELAND CONVERSION

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
612	Pastureland Conversion	Site Sensitivity-Soil suitability rating for potential seedling mortality	WSS Rating	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form.	1. Knowledge of forest ecology and management for the local area. 2. Knowledge of silvics of tree species to be established. 3. Knowledge of soil health and management. 4. Knowledge of resource impacts including water quality, wildlife effects, soil limitations (i.e. potential seedling mortality rating, and harvest equipment operability ratings), fuel volatility, etc. 5. Working knowledge of Forestry BMPs.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

PRECISION AGRICHEMICAL APPLICATION

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
590-PAA	Precision Agrichemical Application	Purpose	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Working knowledge in the analysis and interpretation of soil test and waste analysis results. 4. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 5. NCSU Nutrient Management in NC Course which includes: (1) the online prerequisite; (2) 5-days of nutrient management-related course work; and (3) a passing score on the exam given at the conclusion of the course; Working knowledge in the Agricultural Waste Management Field Handbook (Title 210, Part 651). 6. Appropriate JAA for practices needed to control erosion to a sustainable level (T) on land application sites (If applicable Practice Codes: 342, 329, 328, 340, 386,...).	1. Knowledge of NC's Crops and Cropping Systems. 2. Knowledge of Soil Health and Management. 3. Ability to use Current Wind and Water Erosion Prediction Tools. 4. Knowledge of Tillage Systems used in NC. 5. Knowledge of Synthetic Fertilizers and Analysis. 6. Knowledge of Manure Characteristics and Nutrient Values. 7. Completion of the NCSU Nutrient Management Planning Course. 8. Ability to Perform Nitrogen and Phosphorus Risk Assessments using NCANAT (NLEW+PLAT) and/or latest web-based NC Nutrient Management Software.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete two Nutrient Management Plans in accordance with the most recent SWCC BMP standard. (Note- plan should include use of PLAT, erosion prediction result for planned fields, and latest NC CNMP checklist.) 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for two applied Nutrient Management Plans on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

PRECISION NUTRIENT MANAGEMENT

ATTACHMENT 11B

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
590-PNM	Precision Nutrient Management	Nutrient source, application method and/or special condition	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Working knowledge in the analysis and interpretation of soil test and waste analysis results. 4. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 5. NCSU Nutrient Management in NC Course which includes: (1) the online prerequisite; (2) 5-days of nutrient management-related course work; and (3) a passing score on the exam given at the conclusion of the course; Working knowledge in the Agricultural Waste Management Field Handbook (Title 210, Part 651). 6. Appropriate JAA for practices needed to control erosion to a sustainable level (T) on land application sites (If applicable Practice Codes: 342, 329, 328, 340, 386,...).	1. Knowledge of NC's Crops and Cropping Systems. 2. Knowledge of Soil Health and Management. 3. Ability to use Current Wind and Water Erosion Prediction Tools. 4. Knowledge of Tillage Systems used in NC. 5. Knowledge of Synthetic Fertilizers and Analysis. 6. Knowledge of Manure Characteristics and Nutrient Values. 7. Completion of the NCSU Nutrient Management Planning Course. 8. Ability to Perform Nitrogen and Phosphorus Risk Assessments using NCANAT (NLEW+PLAT) and/or latest web-based NC Nutrient Management Software.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete two Nutrient Management Plans in accordance with the most recent SWCC BMP standard. (Note- plan should include use of PLAT, erosion prediction result for planned fields, and latest NC CNMP checklist.) 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for two applied Nutrient Management Plans on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

PRESCRIBED GRAZING

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
528	Prescribed Grazing	Pasture Only - Area	Acres	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form.	1. Knowledge of ecological processes and implications for specific grazing ecological sites, forage suitability groups, and/or forest ecological sites in the area of service. 2. Skill in development of grazing management plans that are practical, address resource concerns, and meet manager's objectives. 3. Ability to monitor landscapes and communicate needed adjustments. 4. Ability to use appropriate assessment tools to complete forage balance calculations, Pasture Conditioning Score, C-Graze. 5. Ability to teach landowners the usage of grazing stick to establish stop grazing onsite.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

ROOFTOP RUNOFF MANAGEMENT SYSTEMS

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
558	Rooftop Runoff Management System	Purpose	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. Working knowledge of Web Soil Survey, Suitabilities and Limitations Ratings. 5. Capability to perform layout and construction checking following applicable procedures and Notekeeping format contained in Technical Release 62.	1. Ability to develop plans and specifications including sketches and drawings shall be provided to the client that adequately describes the requirements to install the practice and obtain necessary permits. 2. Ability to Assess site soil conditions and prescribe treatment and the appropriate vegetation. 3. Development of related computations and analyses to develop plans and specifications including but not limited to hydrology/hydraulics, vegetation, environmental considerations, and outlet capacity and stability. 4. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). 5. Development of as-built or “red-line” drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52). 6. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3).

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

SEDIMENT CONTROL BASIN **ATTACHMENT 11B**

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
350	Sediment Control Basin	Hazard Class Effective Height (EH) Storage x EH Drainage Area Conduit Diameter	 feet acre-feet^2 acres inches	A 15 500 100 12	A 20 1,000 400 24	A 25 2,000 1,000 36	A 30 2,500 2,500 42	A 35 3,000 4,000 48

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. Working knowledge of Web Soil Survey, Suitabilities and Limitations Ratings. 5. Capability to perform layout and construction checking following applicable procedures and Notekeeping format contained in Technical Release 62.	1. Knowledge of NRCS Construction Specification 21 - Excavation and 23 - Earthfill. 2. Ability to layout a sediment control basin to capture and detain sediment-laden runoff, or other debris for a sufficient length of time to allow it to settle out in the basin. 3. Development of related computations and analyses to develop plans and specifications including but not limited to geology, soil mechanics, hydrology, hydraulics, structural design, and vegetation. 4. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). 5. Development of as-built or “red-line” drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52). 6. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3).

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

SOD-BASED ROTATION

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
328	Sod-based Rotation	Crop, Production Method	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form.	1. Knowledge of NC's Crops and Cropping Systems. 2. Knowledge of Soil Health and Management. 3. Ability to use Current Wind and Water Erosion Prediction Tools. 4. Knowledge of Tillage Systems used in NC. 5. Knowledge of Adaptive Species of Cover.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

SPRING DEVELOPMENT

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
574	Spring Development	Purpose	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. Working knowledge of Web Soil Survey, Suitabilities and Limitations Ratings. 5. Capability to perform layout and construction checking following applicable procedures and Notekeeping format contained in Technical Release 62.	1. Knowledge of NRCS Construction Specification 21 - Excavation and 23 - Earthfill. 2. Ability to Assess site soil conditions and prescribe treatment and the appropriate vegetation. 3. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). 4. Development of as-built or “red-line” drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52). 5. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3).

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

STOCK TRAILS AND WALKWAYS

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
575	Stock Trails and Walkways	Purpose	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. Working knowledge of Web Soil Survey, Suitabilities and Limitations Ratings. 5. Capability to perform layout and construction checking following applicable procedures and Notekeeping format contained in Technical Release 62.	1. Knowledge of NRCS Construction Specification 21 - Excavation and 23 - Earthfill. 2. Ability to Assess site soil conditions and prescribe treatment and the appropriate vegetation. 3. Practice standard criteria-related computations and analyses to develop plans and specifications including but not limited to foundation, grades, widths, surfacing materials, surface drainage, erosion control, and environmental considerations. 4. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). 5. Development of as-built or “red-line” drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52). 6. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3).

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

STREAM CROSSING **ATTACHMENT 11B**

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
578	Stream Crossing	Bank Height	feet	4	6	8	10	All
		Culvert Diameter	inches	18	24	36	48	72
		Drainage Area	acres	250	500	1,000	2,500	All

4

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. Working knowledge of Web Soil Survey, Suitabilities and Limitations Ratings. 5. Capability to perform layout and construction checking following applicable procedures and Notekeeping format contained in Technical Release 62.	1. Knowledge of NRCS Construction Specification 21 - Excavation and 23 - Earthfill. 2. Knowledge of crossing types (bridge, culvert, ford) as well as soils, geology, fluvial geomorphology, and topography that are suitable for construction of a stream crossing. 3. Development of related computations and analyses to develop plans and specifications including but not limited to geology, soil mechanics, hydrology, hydraulics, structural design, vegetation, and soil bioengineering. 4. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). 5. Development of as-built or “red-line” drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52). 6. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3).

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

STRIPCROPPING

PRACTICE DESCRIPTION				JOB CLASSES				
Code	Practice	Controlling Factor	Units	Job Class I	Job Class II	Job Class III	Job Class IV	Job Class V
585	Stripcropping	Slope	%	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form.	1. Knowledge of NC's Crops and Cropping Systems. 2. Knowledge of Soil Health and Management. 3. Ability to use Current Wind and Water Erosion Prediction Tools. 4. Knowledge of Tillage Equipment and Widths of Equipment and Systems used in NC. 5. Knowledge of Planters and Drills and Common Widths Used in NC. 6. Knowledge of Crop Residue Management.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

TERRACES

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
600	Terraces	Purpose	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. Working knowledge of Web Soil Survey, Suitabilities and Limitations Ratings. 5. Capability to perform layout and construction checking following applicable procedures and Notekeeping format contained in Technical Release 62.	1. Knowledge of NRCS Construction Specification 21 - Excavation and 23 - Earthfill. 2. Ability to Assess site soil conditions and prescribe treatment and the appropriate vegetation. 3. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). 4. Development of as-built or “red-line” drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52). 5. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3).

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

TROUGH OR TANK

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
614	Trough or Tank	Purpose	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete "The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. Working knowledge of Web Soil Survey, Suitabilities and Limitations Ratings. 5. Capability to perform layout and construction checking following applicable procedures and Notekeeping format contained in Technical Release 62.	1. Knowledge of watering facilities, water distribution appurtenances and locations, inlet/outlet details at water facility location(s), foundation and/or stabilization measures, protective measures for animals and humans, and special conditions for access (e.g. fences or ramps), if needed. 2. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). 3. Practice standard criteria related computations and analyses to develop plans and specifications of water resource and forage inventory including but not limited to type and number of livestock, daily water use, planned storage volume, and topographic survey for pipelines. 4. Development of as-built or "red-line" drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52). 5. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3).

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client's objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the "Design" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the "Installation" & "Check Out" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form ("Conservation Practice Certification Form") or comparable form.

WATER CONTROL STRUCTURE

ATTACHMENT 11B

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
587	Water Control Structure	Hazard Class		A	A	A	A	A
		Effective Height (EH)	feet	15	20	25	30	35
		Storage x EH	acre-feet2	500	1000	2000	2500	3000
		Drainage Area	acres	100	400	1000	2500	4000
		Conduit Diameter	inches	12	24	36	42	48
		Flashboard Discharge	feet3/second	10	20	40	80	200
		Weir Discharge	feet3/second	50	150	250	350	500

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. Working knowledge of Web Soil Survey, Suitabilities and Limitations Ratings. 5. Capability to perform layout and construction checking following applicable procedures and Notekeeping format contained in Technical Release 62.	1. Knowledge of NRCS Construction Specification 21 - Excavation and 23 - Earthfill. 2. Knowledge of the water management systems that conveys water, controls the direction or rate of flow, maintains a desired water surface elevation, or measures water. 3. Development of related computations and analyses to develop plans and specifications including but not limited to geology, soil mechanics, hydrology, hydraulics, structural design, and vegetation. 4. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). 5. Development of as-built or “red-line” drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52). 6. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3).

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

ATTACHMENT 11B

3-YEAR CONSERVATION TILLAGE SYSTEM

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
329-CTS	3-Year Conservation Tillage System	Crop, Production Method	Type	All				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites	Practice Knowledge, Skills, Abilities (KSAs)
1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete “The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form.	1. Knowledge of NC's Crops and Cropping Systems. 2. Knowledge of Soil Health and Management. 3. Ability to use Current Wind and Water Erosion Prediction Tools. 4. Knowledge of Tillage Systems used in NC. 5. Knowledge of No till Planters and Drills. 6. Knowledge of Crop Residue Management. 7. Knowledge of Soils and Soil Management for No Till.

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)	DESIGN (D)	CONSTRUCTION & CERTIFICATION (C&C)
1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client’s objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.	1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.	1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the “Installation” & "Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (“Conservation Practice Certification Form”) or comparable form.

FY 2022-2023 Agriculture Cost Share Program
Average Cost List Comparison

Agrichemical Pollution Prevention

Component	Unit Type	FY2022 Costs AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	FY2023 Costs WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
ABANDONED TREE REMOVAL	Acre	Cost Share percent of actual amount not to exceed			$ 500.00	$ 600.00	Cost Share percent of actual amount not to exceed			$ 833.00	$ 1000.00	Actual
AGRICHEMICAL CONTAINMENT AND MIXING FACILITY	Each	Cost Share percent of actual amount not to exceed			$ 16,500.00	$ 19,800.00	Cost Share percent of actual amount not to exceed			$ 18,750.00	$ 22,500.00	Actual
AGRICHEMICAL HANDLING FACILITY-building- incl. plumbing, electrical, and misc	SqFt	$18.30			$ 27,500.00	$ 33,000.00	$53.50			$ -	$ -	Average
Agrichemical Handling Facility-chemical storage - including block, sealant, perlite, and platform	SqFt	$34.12					$58.50			$ -	$ -	Average
AGRICHEMICAL MIXING STATION - Portable	Each	Cost Share percent of actual amount not to exceed			$ 3,500.00	$ 4,200.00	Cost Share percent of actual amount not to exceed			$ 4,500.00	$ 5,400.00	Average
AGRICHEMICAL FACILITY-PUMP- housing, fiberglass/site built	Each	$384.30			$ -	$ -	$385.00			$ -	$ -	Average
AGRICHEMICAL FACILITY-PUMP- solar powered water	Each	Cost Share percent of actual amount not to exceed			$ 5,000.00	$ 6,000.00	Cost Share percent of actual amount not to exceed			$ 5,000.00	$ 6,000.00	Actual
AGRICHEMICAL FACILITY-PUMP- water supply	Each	Cost Share percent of actual amount not to exceed			$ 3,700.00	$ 4,440.00	Cost Share percent of actual amount not to exceed			$ 3,700.00	$ 4,440.00	Actual
AGRICHEMICAL FACILITY-WATER SUPPLY municipal tap	Job	Cost Share percent of actual amount not to exceed			$ 800.00	$ 960.00	Cost Share percent of actual amount not to exceed			$ 2300.00	$ 2760.00	Actual
AGRICHEMICAL FACILITY- WELL construction/head protection	LinFt	$20.00			$ -	$ -	$20.00			$ -	$ -	Average
AGRICHEMICAL FACILITY- WELL permit (only where agriculture is not exempt from well permit fees)	Each	Cost Share percent of actual amount not to exceed			$ 500.00	$ 600.00	Cost Share percent of actual amount not to exceed			$ 500.00	$ 600.00	Actual
AGRICHEMICAL FACILITY- WELL Steel casing	LinFt	Cost Share percent of actual amount					Cost Share percent of actual amount not to exceed			$ 25.00	$ 30.00	Actual
CHEMIGATION/FERTIGATION BACKFLOW PREVENTION SYSTEM	Each	Cost Share percent of actual amount not to exceed			$ 1,500.00	$ 1,800.00	Cost Share percent of actual amount not to exceed			$ 2,160.00	$ 2,592.00	Actual
PRECISION AGRICHEMICAL APPLICATION TIER-1. GPS guidance	Each	Cost Share percent of actual amount not to exceed			$ 2,400.00	$ 2,880.00	Cost Share percent of actual amount not to exceed			$ 2,700.00	$ 3,240.00	Actual
PRECISION AGRICHEMICAL APPLICATION TIER-2. Automatic Application Rate Control	Each	Cost Share percent of actual amount not to exceed			$ 1,800.00	$ 2,160.00	Cost Share percent of actual amount not to exceed			$ 2,378.00	$ 2,853.00	Actual
PRECISION AGRICHEMICAL APPLICATION TIER-3. Boom section control	Each	Cost Share percent of actual amount not to exceed			$ 1,800.00	$ 2,160.00	Cost Share percent of actual amount not to exceed			$ 2,520.00	$ 3,024.00	Actual

Construction and Building Materials (Bricks, Concrete, Lumber, Ponds, Stream Restoration, Micro-Irrigation)

Component	Unit Type	FY2022 Costs AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	FY2023 Costs WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
ABANDONED WELL CLOSURE	Each	Cost Share percent of actual amount not to exceed			$ 1,500.00	$ 1,800.00	Cost Share percent of actual amount not to exceed			$ 1,800.00	$ 2,160.00	Actual
AGRICULTURAL POND - Sediment Removal Only	Each	Cost Share percent of actual amount not to exceed			$ 5,000.00	$ 6,000.00	Cost Share percent of actual amount not to exceed			$ 7,000.00	$ 8,400.00	Actual
AGRICULTURAL POND RESTORATION/REPAIR	Job	Cost Share percent of actual amount not to exceed			$ 15,000.00	$ 18,000.00	Cost Share percent of actual amount not to exceed			$ 30,000.00	$ 36,000.00	Actual

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
AGRICULTURAL POND RESTORATION/ REPAIR-Engineering	Job	Cost Share percent of actual amount not to exceed			$ 5,000.00	$ 6,000.00	Cost Share percent of actual amount not to exceed			$ 10,000.00	$ 12,000.00	Actual
AGRICULTURAL WATER COLLECTION SYSTEM	Job						Cost Share percent of actual amount not to exceed			$ 15,000.00	$ 18,000.00	Actual
ANIMAL GUARD-flap gate	Each	$4.39			$ -	$ -	$4.39			$ -	$ -	Average
BRICK-8"	Each	$0.56			$ -	$ -	$80.00			$ -	$ -	Average
CATCH BASIN	Job	Cost Share percent of actual amount not to exceed			$ 1,466.00	$ 1,760.00	Cost Share percent of actual amount not to exceed			$ 2,355.00	$ 2,862.00	Actual
CLEARING-removing woods	Acre	$ 933.30	$ 1,098.00	$ 549.00	$ -	$ -	$ 5032.00			$ -	$ -	Average
CONCRETE BLOCK-6" or 8"	Each	$2.29			$ -	$ -	$4.25			$ -	$ -	Average
CONCRETE BLOCK-12"	Each	$2.78			$ -	$ -	$4.75			$ -	$ -	Average
CONCRETE-non-reinforced <= 5 CuYd	CuYd	$362.34			$ -	$ -	$535.00			$ -	$ -	Average
CONCRETE-non-reinforced > 5 CuYd	CuYd	$271.76			$ -	$ -	$491.00			$ -	$ -	Average
~~CONCRETE-reinforced~~ CONCRETE-Reinforced (WW or Fiber - does not include rebar)	CuYd	$465.00			$ -	$ -	$538.00			$ -	$ -	Average
FENCE-silt, install/maintain	LinFt	$1.65			$ -	$ -	$2.87			$ -	$ -	Average
FILTER CLOTH-geotextile fabric	SqYd	$2.47			$ -	$ -	$3.50			$ -	$ -	Average
~~Footer logs (installed)~~	~~Each~~	~~$109.80~~			~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~GRATE-removable 24"~~ GRATE-removable 24" frame & grate	Each	$48.31			$ -	$ -	$425.00			$ -	$ -	Average
~~GRATE-removable 30"~~ GRATE-removable 30" frame & grate	Each	$58.19			$ -	$ -	$575.00			$ -	$ -	Average
~~GRATE-removable 36"~~ GRATE-removable 36" frame & grate	Each	$64.78			$ -	$ -	$725.00			$ -	$ -	Average
GUTTERS-assembled alum/vinyl 5"	LinFt	$ 1.41	$ 2.64	$ 1.41	$ -	$ -	$ 5.75			$ -	$ -	Average
GUTTERS-assembled alum/vinyl 6"	LinFt	$ 1.64	$ 3.94	$ 1.64	$ -	$ -	$ 7.75			$ -	$ -	Average
GUTTERS-downspouts	LinFt	$ 3.52	$ 4.70	$ 3.52	$ -	$ -	$ 4.75			$ -	$ -	Average
GUTTERS-seamless alum 5"	LinFt	$ 2.06	$ 4.70	$ 2.06	$ -	$ -	$ 9.50			$ -	$ -	Average
GUTTERS-seamless alum 6"	LinFt	$ 3.52	$ 7.05	$ 3.52	$ -	$ -	$ 14.75			$ -	$ -	Average
JUNCTION BOX-concrete	Each	$84.55			$ -	$ -	$260.00			$ -	$ -	Average
LUMBER-post, pressure treat 4" x 4"	LinFt	$1.76			$ -	$ -	$4.03			$ -	$ -	Average
LUMBER-post, pressure treat 4" x 6"	LinFt	$2.06			$ -	$ -	$6.62			$ -	$ -	Average
LUMBER-post, pressure treat 6" x 6"	LinFt	$ 4.58	$ 3.52	$ 3.52	$ -	$ -	$ 12.82			$ -	$ -	Average
LUMBER-pressure treated boards	BdFt	$2.00			$ -	$ -	$2.78			$ -	$ -	Average

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
~~MATTING-erosion control, installed~~ EROSION CONTROL MATTING - LONG TERM-TRM OR 700 GRAM COIR	SqYd		$6.59		$ -	$ -		$9.50		$ -	$ -	Average
~~MATTING-excelsior, installed~~ EROSION CONTROL MATTING - TEMP, 12 MONTHS or less LONGEVITY	SqYd		$1.04		$ -	$ -		$2.50		$ -	$ -	Average
EROSION CONTROL MATTING - TEMP, 18-36 MONTHS LONGEVITY	SqYd							$4.25		$ -	$ -	Average
EROSION CONTROL MATTING - TEMP, < 400 SQ FT, STRAW -12 MONTHS OR LESS LONGEVITY	SqFt							$0.35		$ -	$ -	Average
MICROIRRIGATION SYSTEM	Job	Cost Share percent of actual amount not to exceed			$ 25,000.00	$ 30,000.00	Cost Share percent of actual amount not to exceed			$ 30,000.00	$ 36,000.00	Actual
~~Sediment Filter Bags~~	~~LinFt~~		~~$1.10~~			~~$ -~~					~~$ -~~	~~Actual~~
Snow/Ice Guard	~~Job~~ LinFt		$3.29		$ -	$ -		$21.00		$ -	$ -	Average
STEEL-reinforce, wire fabric/rebar	Lb	$ 0.89	$ 1.03	$ 0.89	$ -	$ -		$ 2.85		$ -	$ -	Average
STONE-Boulders (installed)	Ton		$84.55		$ -	$ -		$138.25		$ -	$ -	Average
STONE-gravel	Ton	$ 34.04	$ 34.04	$ 40.63	$ -	$ -		$ 50.00		$ -	$ -	Average
STONE-riprap	Ton	$ 61.15	$ 61.15	$ 68.79	$ -	$ -		$ 69.00		$ -	$ -	Average
STREAM DEBRIS REMOVAL	Job						Cost Share percent of actual amount not to exceed			$ 15,000.00	$ 18,000.00	Actual
STREAM RESTORATION	Job	Cost Share percent of actual amount not to exceed			$ 50,000.00	$ 60,000.00	Cost Share percent of actual amount not to exceed			$ 50,000.00	$ 60,000.00	Actual
~~STREAM RESTORATION-Root Wads, installed (avail onsite)~~	~~Each~~		~~$54.90~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~STREAM RESTORATION-Root Wads, installed (not avail onsite)~~	~~Each~~		~~$87.84~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~STREAM RESTORATION-Tree Revetments, installed~~	~~LinFt~~		~~$32.94~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
USE EXCLUSION FENCE - includes gates and signs	LinFt		$1.32		$ -	$ -		$2.41		$ -	$ -	Average

Pipes and Trash Guards

NOTE: PIPE - CORRUGATED METAL, CORRUGATED ALUMINUM, REINFORCED CONCRETE (RCP), CORRUGATED STORMWATER Where excavation and backfill are included, an assumed volume is calculated by pipe diameter plus 3' wide by pipe diameter plus 2' deep per linear foot (EX. 24" pipe would be 5' wide x4' deep per linear foot)

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
PIPE FITTING-Corrugated Polyethylene 4"	Each		$3.57		$ -	$ -		$9.75		$ -	$ -	Average
PIPE FITTING-Corrugated Polyethylene 5"	Each		$5.00		$ -	$ -		$10.50		$ -	$ -	Average
PIPE FITTING-Corrugated Polyethylene 6"	Each		$8.18		$ -	$ -		$14.25		$ -	$ -	Average
PIPE FITTING-Corrugated Polyethylene 8"	Each		$16.68		$ -	$ -		$36.50		$ -	$ -	Average
PIPE FITTING-Corrugated Polyethylene 10"	Each		$22.66		$ -	$ -		$49.50		$ -	$ -	Average
PIPE FITTING-Corrugated Polyethylene 12"	Each		$28.56		$ -	$ -		$62.25		$ -	$ -	Average
PIPE FITTING-Corrugated Polyethylene 15"	Each		$47.59		$ -	$ -		$103.75		$ -	$ -	Average
PIPE FITTING-Corrugated Polyethylene 18"	Each		$95.63		$ -	$ -		$208.50		$ -	$ -	Average
PIPE FITTING-Polyvinyl Chloride <=3"	Each		$3.90		$ -	$ -		$8.50		$ -	$ -	Average
PIPE FITTING-Polyvinyl Chloride 4"	Each		$7.79		$ -	$ -		$17.50		$ -	$ -	Average
PIPE FITTING-Polyvinyl Chloride 6"	Each		$25.97		$ -	$ -		$49.00		$ -	$ -	Average
PIPE FITTING-Polyvinyl Chloride 8"	Each		$84.40		$ -	$ -		$110.50		$ -	$ -	Average
PIPE FITTING-Polyvinyl Chloride 10"	Each		$129.84		$ -	$ -		$471.00		$ -	$ -	Average
PIPE FITTING-Polyvinyl Chloride 12"	Each		$175.28		$ -	$ -		$708.00		$ -	$ -	Average
PIPE FITTING-stormwater 12"	Each		$137.63		$ -	$ -		$210.00		$ -	$ -	Average
PIPE FITTING-stormwater 24"	Each		$376.53		$ -	$ -		$625.00		$ -	$ -	Average
PIPE-bent support for outlet	Each		$64.92		$ -	$ -		$150.00		$ -	$ -	Average
~~PIPE-Coated Corrugated Steel flanged, coated 10"/16 ga~~	~~LinFt~~		~~$21.37~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~PIPE-Coated Corrugated Steel flanged, coated 12"/16 ga~~	~~LinFt~~		~~$28.03~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~PIPE-Coated Corrugated Steel flanged, coated 6"/16 ga~~	~~LinFt~~		~~$17.40~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~PIPE-Coated Corrugated Steel flanged, coated 8"/16 ga~~	~~LinFt~~		~~$19.89~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~PIPE-Coated Corrugated Steel flanged, galv 8"/16 ga~~ PIPE- CORRUGATED METAL, galvanized and bituminous coated with paved invert, 16 ga., 8"- includes excavation and backfill	LinFt		$18.18		$ -	$ -		$42.00		$ -	$ -	Average
~~PIPE-Coated Corrugated Steel flanged, galv 10"/16 ga~~ PIPE- CORRUGATED METAL, galvanized and bituminous coated with paved invert, 16 ga., 10"- includes excavation and backfill	LinFt		$19.32		$ -	$ -		$44.25		$ -	$ -	Average

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
~~PIPE-Coated Corrugated Steel flanged, galv 6"/16 ga~~	~~LinFt~~		~~$16.23~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~PIPE-Coated Corrugated Steel flanged, galv 12"/16 ga~~ PIPE- CORRUGATED METAL, galvanized and bituminous coated with paved invert, 16 ga., 12"- includes excavation and backfill	LinFt		$24.64		$ -	$ -		$51.00		$ -	$ -	Average
~~PIPE-Coated Corrugated Steel rerolled, coated15"/16 ga~~	~~LinFt~~		~~$19.93~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~PIPE-Coated Corrugated Steel rerolled, coated18"/16 ga~~	~~LinFt~~		~~$22.29~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~PIPE-Coated Corrugated Steel rerolled, galv 15"/16 ga~~ PIPE- CORRUGATED METAL, galvanized and bituminous coated with paved invert, 16 ga., 15"- includes excavation and backfill	LinFt		$17.84		$ -	$ -		$52.50		$ -	$ -	Average
~~PIPE-Coated Corrugated Steel rerolled, coated 30"/16 ga~~	~~LinFt~~		~~$34.23~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~PIPE-Coated Corrugated Steel rerolled, coated36"/14 ga~~	~~LinFt~~		~~$39.06~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~PIPE-Coated Corrugated Steel rerolled, galv 18"/16 ga~~ PIPE- CORRUGATED METAL, galvanized and bituminous coated with paved invert, 16 ga., 18"- includes excavation and backfill	LinFt		$19.40		$ -	$ -		$60.00		$ -	$ -	Average
~~PIPE-Coated Corrugated Steel rerolled, coated24"/16 ga~~ PIPE- CORRUGATED METAL, galvanized and bituminous coated with paved invert, 14 ga., 24"- includes excavation and backfill	LinFt		$26.37		$ -	$ -		$65.25		$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized and bituminous coated with paved invert, 16 ga., 48"- includes excavation and backfill	LinFt							$117.25		$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized and bituminous coated with paved invert, 16 ga., 60"- includes excavation and backfill	LinFt							$173.00		$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized and bituminous coated with paved invert, 16 ga., 72"- includes excavation and backfill	LinFt							$219.50		$ -	$ -	Average
~~PIPE-Coated Corrugated Steel rerolled, galv 24"/16 ga~~	~~LinFt~~		~~$22.58~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~PIPE-Coated Corrugated Steel rerolled, galv 30"/16 ga~~	~~LinFt~~		~~$25.75~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~PIPE-Coated Corrugated Steel rerolled, galv 36"/14 ga~~	~~LinFt~~		~~$37.20~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~PIPE-Corrugated Aluminum flanged, 6"/16 ga~~ PIPE- CORRUGATED ALUMINUM, 16 ga., 6" - includes excavation and backfill	LinFt		$18.45		$ -	$ -		$44.00		$ -	$ -	Average

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
~~PIPE-Corrugated Aluminum flanged, 8"/16 ga~~ PIPE- CORRUGATED ALUMINUM, 16 ga., 8" - includes excavation and backfill	LinFt		$20.28		$ -	$ -		$46.00		$ -	$ -	Average
~~PIPE-Corrugated Aluminum flanged, 10"/16 ga~~ PIPE- CORRUGATED ALUMINUM, 16 ga., 10" - includes excavation and backfill	LinFt		$23.64		$ -	$ -		$47.50		$ -	$ -	Average
~~PIPE-Corrugated Aluminum flanged, 12"/16 ga~~ PIPE- CORRUGATED ALUMINUM, 16 ga., 12" - includes excavation and backfill	LinFt		$27.76		$ -	$ -		$55.00		$ -	$ -	Average
~~PIPE-Corrugated Aluminum rerolled 15"/16 ga~~ PIPE- CORRUGATED ALUMINUM, 16 ga., 15" - includes excavation and backfill	LinFt		$25.82		$ -	$ -		$60.00		$ -	$ -	Average
~~PIPE-Corrugated Aluminum rerolled 18"/14 ga~~ PIPE- CORRUGATED ALUMINUM, 16 ga., 18" - includes excavation and backfill	LinFt		$33.72		$ -	$ -		$61.75		$ -	$ -	Average
~~PIPE-Corrugated Aluminum rerolled 24"/14 ga~~ PIPE- CORRUGATED ALUMINUM, 14 ga., 24" - includes excavation and backfill	LinFt		$42.21		$ -	$ -		$84.00		$ -	$ -	Average
~~PIPE-Corrugated Aluminum rerolled 30"/14 ga~~ PIPE- CORRUGATED ALUMINUM, 14 ga., 30" - includes excavation and backfill	LinFt		$50.42		$ -	$ -		$98.50		$ -	$ -	Average
~~PIPE-Corrugated Aluminum rerolled 36"/14 ga~~ PIPE- CORRUGATED ALUMINUM, 12 ga., 36" - includes excavation and backfill	LinFt		$61.52		$ -	$ -		$144.00		$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 12 ga., 42" - includes excavation and backfill	LinFt							$164.00		$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 12 ga., 48" - includes excavation and backfill	LinFt							$184.00		$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 12 ga., 54" - includes excavation and backfill	LinFt							$232.00		$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 12 ga., 60" - includes excavation and backfill	LinFt							$252.50		$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 12 ga., 66" - includes excavation and backfill	LinFt							$274.50		$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 12 ga., 72" - includes excavation and backfill	LinFt							$298.00		$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized uncoated, 16 ga., 8" - includes excavation and backfill	LinFt							$42.50		$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized uncoated, 16 ga., 10" - includes excavation and backfill	LinFt							$44.25		$ -	$ -	Average
~~PIPE-Corrugated Metal Pipw 12"/16 ga~~ PIPE- CORRUGATED METAL, galvanized uncoated, 16 ga., 12" - includes excavation and backfill	LinFt		$17.74		$ -	$ -		$59.00		$ -	$ -	Average
~~PIPE-Corrugated Metal Pipw 1/2"x2 2/3", 15"/16 ga~~ PIPE- CORRUGATED METAL, galvanized uncoated, 16 ga., 15" - includes excavation and backfill	LinFt		$22.07		$ -	$ -		$67.25		$ -	$ -	Average

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
~~PIPE-Corrugated Metal Pipw 18"/16 ga~~ PIPE- CORRUGATED METAL, galvanized uncoated, 16 ga., 18" - includes excavation and backfill	LinFt		$26.12		$ -	$ -		$72.50		$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized uncoated, 14 ga., 21" - includes excavation and backfill	LinFt							$60.00		$ -	$ -	Average
~~PIPE-Corrugated Metal Pipw 24"/14 ga~~ PIPE- CORRUGATED METAL, galvanized uncoated, 14 ga., 24" - includes excavation and backfill	LinFt		$43.55		$ -	$ -		$77.50		$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized uncoated, 14 ga., 27" - includes excavation and backfill	LinFt							$69.00		$ -	$ -	Average
~~PIPE-Corrugated Metal Pipw 30"/14 ga~~ PIPE- CORRUGATED METAL, galvanized uncoated, 14 ga., 30" - includes excavation and backfill	LinFt		$53.68		$ -	$ -		$91.50		$ -	$ -	Average
~~PIPE-Corrugated Metal Pipw 36"/14 ga~~ PIPE- CORRUGATED METAL, galvanized uncoated, 12 ga., 36" - includes excavation and backfill	LinFt		$64.32		$ -	$ -		$97.00		$ -	$ -	Average
~~PIPE-Corrugated Metal Pipw 42"/12 ga~~	~~LinFt~~		~~$94.29~~		~~$ -~~	~~$ -~~						~~Average~~
~~PIPE-Corrugated Metal Pipw 48"/12 ga~~ PIPE- CORRUGATED METAL, galvanized uncoated, 12 ga., 48" - includes excavation and backfill	LinFt		$106.71		$ -	$ -		$122.00		$ -	$ -	Average
~~PIPE-Corrugated Metal Pipw 54"/12 ga~~	~~LinFt~~		~~$120.50~~		~~$ -~~	~~$ -~~						~~Average~~
~~PIPE-Corrugated Metal Pipw 60"/12 ga~~ PIPE- CORRUGATED METAL, galvanized uncoated, 10 ga., 60" - includes excavation and backfill	LinFt		$159.61		$ -	$ -		$178.50		$ -	$ -	Average
~~PIPE-Corrugated Metal Pipw 66"/12 ga~~	~~LinFt~~		~~$174.79~~		~~$ -~~	~~$ -~~						~~Average~~
~~PIPE-Corrugated Metal Pipw 72"/12 ga~~ PIPE- CORRUGATED METAL, galvanized uncoated, 10 ga., 72" - includes excavation and backfill	LinFt		$191.34		$ -	$ -		$212.00		$ -	$ -	Average
~~PIPE-Corrugated Polyethylene non-perforated 4"~~ PIPE- CORRUGATED PLASTIC, polyethylene, single wall, 4" - does not include excavation	LinFt		$1.95		$ -	$ -		$5.00		$ -	$ -	Average
~~PIPE-Corrugated Polyethylene non-perforated 5"~~	~~LinFt~~		~~$2.34~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~PIPE-Corrugated Polyethylene non-perforated 6"~~ PIPE- CORRUGATED PLASTIC, polyethylene, single wall, 6" - does not include excavation	LinFt		$2.60		$ -	$ -		$7.50		$ -	$ -	Average

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
~~PIPE-Corrugated Polyethylene non-perforated 8"~~ PIPE- CORRUGATED PLASTIC, polyethylene, single wall, 8" - does not include excavation	LinFt		$3.64		$ -	$ -		$12.25		$ -	$ -	Average
~~PIPE-Corrugated Polyethylene non-perforated 10"~~ PIPE- CORRUGATED PLASTIC, polyethylene, single wall, 10" - does not include excavation	LinFt		$4.28		$ -	$ -		$15.50		$ -	$ -	Average
~~PIPE-Corrugated Polyethylene non-perforated 12"~~ PIPE- CORRUGATED PLASTIC, polyethylene, single wall, 12" - does not include excavation	LinFt		$7.14		$ -	$ -		$20.25		$ -	$ -	Average
~~PIPE-Corrugated Polyethylene non-perforated 15"~~ PIPE- CORRUGATED PLASTIC, polyethylene, double wall, 15" - does not include excavation	LinFt		$18.83		$ -	$ -		$23.75		$ -	$ -	Average
~~PIPE-Corrugated Polyethylene non-perforated 18"~~ PIPE- CORRUGATED PLASTIC, polyethylene, double wall, 18" - does not include excavation	LinFt		$21.42		$ -	$ -		$35.25		$ -	$ -	Average
~~PIPE-Corrugated Polyethylene non-perforated 24"~~ PIPE- CORRUGATED PLASTIC, polyethylene, double wall, 24" - does not include excavation	LinFt		$25.32		$ -	$ -		$55.00		$ -	$ -	Average
~~PIPE-Corrugated Polyethylene non-perforated 36"~~ PIPE- CORRUGATED PLASTIC, polyethylene, double wall, 36" - does not include excavation	LinFt		$37.00		$ -	$ -		$73.25		$ -	$ -	Average
PIPE- CORRUGATED PLASTIC, polyethylene, double wall, 48" - does not include excavation	LinFt							$94.00		$ -	$ -	Average
PIPE-Hickenbottom outlet 6"	Each		$26.62		$ -	$ -		$190.50		$ -	$ -	Average
PIPE-Hickenbottom outlet 8"	Each		$44.15		$ -	$ -		$272.50		$ -	$ -	Average
PIPE-Hickenbottom outlet 10"	Each		$55.18		$ -	$ -		$362.25		$ -	$ -	Average
PIPE-Surface inlet tee (6 in)	Each		$24.42		$ -	$ -		$54.50		$ -	$ -	Average
PIPE-Surface inlet tee (8 in)	Each		$40.78		$ -	$ -		$76.00		$ -	$ -	Average
PIPE-Surface inlet tee (10 in)	Each		$59.42		$ -	$ -		$174.00		$ -	$ -	Average
~~PIPE-perf drain w/filter cloth~~ PIPE- Perf drain w/ GEOTEXTILE FILTER, INCLUDES EXCAVATION/BACKFILL OF 2'X3' PER LF	LinFt		$2.40		$ -	$ -		$7.00		$ -	$ -	Average
~~PIPE-perf drain w/gravel filter~~ PIPE- Perf drain w/ 2'X2' GRAVEL FILTER, INCLUDES EXCAVATION/BACKFILL OF 2'X3' PER LF	LinFt		$3.18		$ -	$ -		$16.75		$ -	$ -	Average
~~PIPE-perf drain w/o filter~~ PIPE-Perf drain w/o filter, INCLUDES EXCAVATION/BACKFILL OF 2'X3' PER LF	LinFt		$2.34		$ -	$ -		$5.75		$ -	$ -	Average

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
~~PIPE-Polyvinyl Chloride 1 1/2" or less~~ PIPE-Polyvinyl Chloride 1 1/2" or less (does not include excavation)	LinFt		$2.27		$ -	$ -		$3.75		$ -	$ -	Average
~~PIPE-Polyvinyl Chloride 2"~~ PIPE-Polyvinyl Chloride 2" (does not include excavation)	LinFt		$2.53		$ -	$ -		$7.75		$ -	$ -	Average
PIPE-Polyvinyl Chloride 2.5" (does not include excavation)	LinFt							$10.50		$ -	$ -	Average
~~PIPE-Polyvinyl Chloride 3"~~ PIPE-Polyvinyl Chloride 3" (does not include excavation)	LinFt		$2.66		$ -	$ -		$12.25		$ -	$ -	Average
~~PIPE-Polyvinyl Chloride 4"~~ PIPE-Polyvinyl Chloride 4" (does not include excavation)	LinFt		$3.90		$ -	$ -		$10.00		$ -	$ -	Average
PIPE-Polyvinyl Chloride 5" (does not include excavation)	LinFt							$16.75		$ -	$ -	Average
~~PIPE-Polyvinyl Chloride 6"~~ PIPE-Polyvinyl Chloride 6" (does not include excavation)	LinFt		$5.97		$ -	$ -		$18.00		$ -	$ -	Average
~~PIPE-Polyvinyl Chloride 8"~~ PIPE-Polyvinyl Chloride 8" (does not include excavation)	LinFt		$10.39		$ -	$ -		$20.00		$ -	$ -	Average
~~PIPE-Polyvinyl Chloride 10"~~ PIPE-Polyvinyl Chloride 10" (does not include excavation)	LinFt		$15.58		$ -	$ -		$22.00		$ -	$ -	Average
~~PIPE-Polyvinyl Chloride 12"~~ PIPE-Polyvinyl Chloride 12" (does not include excavation)	LinFt		$20.77		$ -	$ -		$25.00		$ -	$ -	Average
PIPE-Polyvinyl Chloride, quick coupling 3/4"-1"	Each		$20.77		$ -	$ -		$30.50		$ -	$ -	Average
~~PIPE-water supply/fittings, <=2"~~ PIPE- PE Water supply/fittings, <=2in, includes trenching	LinFt		$1.87		$ -	$ -		$3.50		$ -	$ -	Average
~~PIPE-RC 12", 4' sections~~ PIPE- REINFORCED CONCRETE (RCP), class 3, 12" - includes excavation and backfill	LinFt		$16.88		$ -	$ -		$57.75		$ -	$ -	Average
~~PIPE-RC 15", 4' sections~~ PIPE- REINFORCED CONCRETE (RCP), class 3, 15" - includes excavation and backfill	LinFt		$18.18		$ -	$ -		$62.75		$ -	$ -	Average
~~PIPE-RC 18", 4' sections~~ PIPE- REINFORCED CONCRETE (RCP), class 3, 18" - includes excavation and backfill	LinFt		$20.77		$ -	$ -		$68.00		$ -	$ -	Average
PIPE- REINFORCED CONCRETE (RCP), class 3, 21" - includes excavation and backfill	LinFt							$73.75		$ -	$ -	Average
~~PIPE-RC 24", 4' sections~~ PIPE- REINFORCED CONCRETE (RCP), class 3, 24" - includes excavation and backfill	LinFt		$28.56		$ -	$ -		$89.00		$ -	$ -	Average

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
~~PIPE-RC 30", 4' sections~~ PIPE- REINFORCED CONCRETE (RCP), class 3, 30" - includes excavation and backfill	LinFt		$36.35		$ -	$ -		$143.75		$ -	$ -	Average
~~PIPE-RC 36", 4' sections~~ PIPE- REINFORCED CONCRETE (RCP), class 3, 36" - includes excavation and backfill	LinFt		$49.34		$ -	$ -		$197.50		$ -	$ -	Average
PIPE- REINFORCED CONCRETE (RCP), class 3, 48" - includes excavation and backfill	LinFt							$303.25		$ -	$ -	Average
PIPE- REINFORCED CONCRETE (RCP), class 3, 72" - includes excavation and backfill	LinFt							$496.50		$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL, 4" - includes excavation and backfill	LinFt							$33.00		$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 6" - includes excavation and backfill	LinFt							$35.00		$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 8" - includes excavation and backfill	LinFt							$37.00		$ -	$ -	Average
~~PIPE-Stormwater PipeP 10"/smooth in/cor ex~~ PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 10" - includes excavation and backfill	LinFt		$15.58		$ -	$ -		$42.75		$ -	$ -	Average
~~PIPE-Stormwater PipeP 12"/smooth in/cor ex~~ PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 12" - includes excavation and backfill	LinFt		$20.51		$ -	$ -		$41.25		$ -	$ -	Average
~~PIPE-Stormwater PipeP 15"/smooth in/cor ex~~ PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 15" - includes excavation and backfill	LinFt		$21.94		$ -	$ -		$42.75		$ -	$ -	Average
~~PIPE-Stormwater PipeP 18"/smooth in/cor ex~~ PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 18" - includes excavation and backfill	LinFt		$24.34		$ -	$ -		$62.50		$ -	$ -	Average
~~PIPE-Stormwater PipeP 24"/smooth in/cor ex~~ PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 24" - includes excavation and backfill	LinFt		$31.16		$ -	$ -		$83.75		$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 30" - includes excavation and backfill	LinFt							$65.50		$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 36" - includes excavation and backfill	LinFt							$82.00		$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 42" - includes excavation and backfill	LinFt							$83.00		$ -	$ -	Average

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 48" - includes excavation and backfill	LinFt							$100.25		$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 54" - includes excavation and backfill	LinFt							$124.75		$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 60" - includes excavation and backfill	LinFt							$213.25		$ -	$ -	Average
~~FACE PLATE installed~~ FACE PLATE alum. 12"-18"-INSTALLED	Each		$290.97		$ -	$ -		$1200.00		$ -	$ -	Average
~~TEE-8"x8"x12"x20' w/1' stub/16 ga~~	~~Each~~		~~$334.56~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
TRASH GD-Corrugated Aluminum 15"	Each		$127.42		$ -	$ -		$500.00		$ -	$ -	Average
TRASH GD-Corrugated Aluminum 24"	Each		$172.72		$ -	$ -		$610.00		$ -	$ -	Average
TRASH GD-Corrugated Aluminum 30"	Each		$284.44		$ -	$ -		$550.00		$ -	$ -	Average
TRASH GD-Corrugated Aluminum 36"	Each		$306.78		$ -	$ -		$790.00		$ -	$ -	Average
TRASH GD-Corrugated Aluminum 48"	Each		$353.28		$ -	$ -		$872.00		$ -	$ -	Average
TRASH GD-Corrugated Aluminum 54"	Each		$399.18		$ -	$ -		$955.00		$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 12"	Each		$44.69		$ -	$ -		$110.00		$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 15"	Each		$76.70		$ -	$ -		$130.00		$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 18"	Each		$89.38		$ -	$ -		$160.00		$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 24"	Each		$102.06		$ -	$ -		$230.00		$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 30"	Each		$123.20		$ -	$ -		$290.00		$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 36"	Each		$153.39		$ -	$ -		$390.00		$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 42"	Each		$250.01		$ -	$ -		$590.00		$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 48"	Each		$285.64		$ -	$ -		$630.00		$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 60"	Each		$478.29		$ -	$ -		$1050.00		$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 72"	Each		$683.61		$ -	$ -		$1500.00		$ -	$ -	Average

Establishment of Trees and Riparian Buffers

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
TREE ESTABLISHMENT - Bedding (Cropland Conversion to Trees ONLY)	Acre		$93.33		$ -	$ -		$99.00		$ -	$ -	Average
TREE ESTABLISHMENT - Chemical Release	Acre		$109.80		$ -	$ -		$110.00		$ -	$ -	Average
TREE ESTABLISHMENT - Chemical Site Prep	Acre		$131.76		$ -	$ -		$140.00		$ -	$ -	Average
TREE ESTABLISHMENT - Disking	Acre		$43.92		$ -	$ -		$67.00		$ -	$ -	Average
TREE ESTABLISHMENT - Mowing/Bushhogging	Acre		$43.92		$ -	$ -		$67.00		$ -	$ -	Average
TREE ESTABLISMENT - Prescribed Burning	Acre		$32.94		$ -	$ -		$66.00		$ -	$ -	Average
TREE ESTABLISHMENT - Scalping/Furrowing	Acre		$65.88		$ -	$ -		$106.00		$ -	$ -	Average
TREE ESTABLISHMENT - Subsoiling	Acre		$27.45		$ -	$ -		$75.00		$ -	$ -	Average
TREE-plant, hardwood	Acre		$192.15		$ -	$ -		$247.00		$ -	$ -	Average
TREE-plant, loblolly and shortleaf pine	Acre		$93.33		$ -	$ -		$148.00		$ -	$ -	Average
TREE-plant, longleaf pine	Acre		$159.21		$ -	$ -		$187.00		$ -	$ -	Average

Establishment of Vegetation, Pasture Renovation and Cropland Conversion (Grass)

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
COVER CROP	Acre		$50.00		$ -	$ -		$70.00		$ -	$ -	Average
RESIDUE AND TILLAGE MANAGEMENT - Tier 1 - 60% Residue	Acre		$20.00		$ -	$ -		$20.00		$ -	$ -	Average
RESIDUE AND TILLAGE MANAGEMENT - Tier 2 - 80% Residue	Acre		$40.00		$ -	$ -		$40.00		$ -	$ -	Average
RESIDUE AND TILLAGE MANAGEMENT - Tier 3 - Conventional 60% Residue	Acre		$120.00		$ -	$ -		$120.00		$ -	$ -	Average
RESIDUE AND TILLAGE MANAGEMENT - Tier 4 - Conventional 80% Residue	Acre		$140.00		$ -	$ -		$140.00		$ -	$ -	Average
SOD-BASED ROTATION - Tier 1 - 3 yr/17 mos	Acre		$100.00		$ -	$ -		$100.00		$ -	$ -	Average
SOD-BASED ROTATION - Tier 2 - 4 yr/29 mos	Acre		$173.00		$ -	$ -		$173.00		$ -	$ -	Average
SOD-BASED ROTATION - tier 3 - 5 yr/41 mos	Acre		$233.00		$ -	$ -		$233.00		$ -	$ -	Average
~~CROPLAND CONVERSION - establish grass/wildlife plants~~ CROPLAND CONVERSION - establish grass, trees or wildlife planting, includes land preparation	Acre		$329.40		$ -	$ -		$420.00		$ -	$ -	Average
PASTURE RENOVATION	Acre		$329.40		$ -	$ -		$377.00		$ -	$ -	~~Actual~~ Average

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
VEGETATION-bag lime, seed and fertlizer	Acre		$768.60		$ -	$ -		$976.00		$ -	$ -	Average
~~VEGETATION-Bare Root Seedlings~~ VEGETATION-Tree/Shrub Bare Root Seedlings	Each		$1.98		$ -	$ -		$4.00		$ -	$ -	Average
VEGETATION-bulk lime, seed and fertilizer	Acre		$603.90		$ -	$ -		$767.00		$ -	$ -	Average
VEGETATION-compost blanket	Sq Ft	Cost Share percent of actual amount not to exceed			$ 5,000.00	$ 6,000.00	Cost Share percent of actual amount not to exceed			$ 5,000.00	$ 6,000.00	Actual
VEGETATION-compost sock	Lin Ft		$3.29		$ -	$ -		$5.60		$ -	$ -	Actual
~~VEGETATION-establish in strips~~ VEGETATION-Stripcropping	Acre		$164.70		$ -	$ -		$209.00		$ -	$ -	Average
VEGETATION-establish, Christmas tree plantations	Acre		$230.58		$ -	$ -		$293.00		$ -	$ -	Average
~~VEGETATION-establish perennial grasses and/or legumes for Controlled Livestock Lounging Areas ONLY~~	~~Acre~~		~~$158.11~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~VEGETATION-establish, hydroseed~~ VEGETATION-Hydroseed	Acre		$1,866.60		$ -	$ -		$2,370.00		$ -	$ -	Average
~~VEGETATION-establish, native VEGETATION~~ VEGETATION-establish, native species for riparian areas only	Acre		$680.76		$ -	$ -		$750.00		$ -	$ -	Average
VEGETATION-Livestakes (installed)	Each		$1.10		$ -	$ -		$3.50		$ -	$ -	Average
~~VEGETATION-mulch, matting/install~~	~~SqYd~~		~~$1.04~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~VEGETATION-mulch, netting~~	~~SqFt~~		~~$0.08~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
VEGETATION-mulch, small grain straw	Acre		$603.90		$ -	$ -		$1945.00		$ -	$ -	Average
~~VEGETATION-Odor Control, Switch Grass Sprig~~	~~Each~~		~~$3.35~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
VEGETATION-seedbed prep	Acre	$ 54.90	$ 54.90	$ 109.80	$ -	$ -		$ 140.00		$ -	$ -	Average
~~VEGETATION-seedbed prep, strips/crop conv~~	~~Acre~~		~~$32.94~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~VEGETATION-shrubs~~	~~Each~~		~~$1.98~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~

Grading and Earth Moving Components

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
EARTH FILL- ADJACENT (WITHIN 300 YDS)	CuYd							$ 5.63		$ -	$ -	Average
~~EARTH FILL-adjacent, sheepsfoot rolled~~ EARTH FILL ADJACENT, COMPACTED	CuYd	$ 3.62	$ 4.83	$ 4.83	$ -	$ -		$ 7.12		$ -	$ -	Average
EARTH FILL HAULED	CuYd		$10.58		$ -	$ -		$32.86		$ -	$ -	Average
~~EARTH FILL-hauled, sheepsfoot rolled~~ EARTH FILL HAULED, COMPACTED	CuYd	$ 4.83	$ 6.64	$ 9.06	$ -	$ -		$ 34.89		$ -	$ -	Average

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
~~EXCAVATION-spring development (Backhoe)~~ EXCAVATION- Spring development/Stream Pickup	Hr	$ 90.59	$ 78.51	$ 60.39	$ -	$ -		$ 158.00		$ -	$ -	Average
~~EXCAVATION-spring development (Trackhoe)~~	~~Hr~~	~~$ 120.78~~	~~$ 150.98~~	~~$ 120.78~~	~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
EXCAVATION-w/spoil removal	CuYd	$ 2.42	$ 3.62	$ 2.72	$ -	$ -		$ 3.50		$ -	$ -	Average
~~GRADING-light, 1" to 3" avg~~	~~Acre~~		~~$1,866.60~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~GRADING-medium, 3" to 6" avg~~ GRADING-medium, <=6" avg	Acre		$2,305.80		$ -	$ -		$3,209.00		$ -	$ -	Average
GRADING-heavy, 6"-9" avg	Acre		$2,745.00		$ -	$ -		$3,820.00		$ -	$ -	Average
GRADING-extra heavy 9"-12" avg	Acre		$3,184.20		$ -	$ -		$4,430.00		$ -	$ -	Average
GRADING-maximum heavy >12" avg	Acre		$3,623.40		$ -	$ -		$5,040.00		$ -	$ -	Average
GRADING-minimum, <=1/4 acre	Job		$1,098.00		$ -	$ -		$2,630.00		$ -	$ -	Average
HUAP- fine grading, geotextile, stone (does not include excavation)	SqYd							$24.00		$ -	$ -	Average
HUAP-fine grading, concrete (does not include excavation)	SqYd							$77.00		$ -	$ -	Average
HUAP-for tanks and troughs: fine grading (does not include excavation), geotextile, stone, 44.4 SqYd (400 SqFt)	Each							$1,064.00		$ -	$ -	Average
HUAP- for tanks and troughs: fine grading, concrete, 44.4 SqYd (400 SqFt)	Each							$3,410.00		$ -	$ -	Average
LAND SMOOTHING - heavy	Acre	$ 219.60	$ 219.60	$ 274.50	$ -	$ -	$ 305.25	$ 305.25	$ 381.50	$ -	$ -	Average
LAND SMOOTHING - light	Acre	$ 164.70	$ 164.70	$ 219.60	$ -	$ -	$ 229.00	$ 229.00	$ 305.25	$ -	$ -	Average
~~SMOOTH/SHAPE-diversion~~	~~LinFt~~	~~$ 2.20~~	~~$ 1.10~~	~~$ 1.10~~	~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~SMOOTH/SHAPE-terrace~~	~~LinFt~~		~~$1.10~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
SMOOTH/SHAPE-tractor disk/blade	Acre		$274.50		$ -	$ -		$381.50		$ -	$ -	Average

Incentives

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
INCENTIVE - Manure/Litter Transport <= 20 mi.	Ton / CuYd		$4.39 / $2.20		$ 15,000.00	$ 15,000.00		$4.50 / $3.75		$ 15,000.00	$ 15,000.00	Flat Rate
INCENTIVE - Manure/Litter Transport 20-50 mi.	Ton / CuYd		$6.59 / $3.29		$ 15,000.00	$ 15,000.00		$8.25 / $7.00		$ 15,000.00	$ 15,000.00	Flat Rate
INCENTIVE - Manure/Litter Transport >= 50 mi.	Ton / CuYd		$8.78 / $4.39		$ 15,000.00	$ 15,000.00		$16.50 / $14.00		$ 15,000.00	$ 15,000.00	Flat Rate
INCENTIVE - Nutrient Management 3yrs	Acre/Year		$6.59		$ -	$ -		$10.00		$ -	$ -	Flat Rate
INCENTIVE - Precision Nutrient Management	Acre/Year		$16.47		$ 15,000.00	$ 15,000.00		$20.00		$ 15,000.00	$ 15,000.00	Flat Rate
INCENTIVE - Prescribed Grazing	Acre/Year		$32.94		$ 15,000.00	$ 15,000.00		$33.00		$ 15,000.00	$ 15,000.00	Flat Rate

Stream Protection Management

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
FENCE - SOLAR CHARGER	Each	$301.95			$ -	$ -	$375.00			$ -	$ -	Average
FENCE-3-strand perm, electric, incl. Gates	LinFt	$ 2.72	$ 2.42	$ 2.42	$ -	$ -	$ 4.68			$ -	$ -	Average
FENCE-4+-strand perm, electric, incl. Gates	LinFt	$ 2.94	$ 2.64	$ 2.64	$ -	$ -	$ 5.10			$ -	$ -	Average
FENCE-perm, 3 strand interior, electric or non-electric, incl. Gates	LinFt	$2.47			$ -	$ -	$4.50			$ -	$ -	Average
FENCE-perm, non-electric, incl. Gates	LinFt	$ 3.56	$ 2.88	$ 2.88	$ -	$ -	$ 5.90			$ -	$ -	Average
FENCE-perm, streamside/floodplain, incl. Gates	LinFt	$1.32			$ -	$ -	$2.40			$ -	$ -	Average
FENCE-temporary, portable, electric	LinFt	$0.11			$ -	$ -	$0.20			$ -	$ -	Average
~~LIVESTOCK FEEDING AREAS~~ LIVESTOCK FEEDING AREA (CONCRETE AND GRADING - NO EXCAVATION (AVERAGE OF EACH PER SQ YD)	~~Each~~ SqYd	Cost Share percent of actual amount not to exceed			$ 4,200.00	$ 5,040.00	Cost Share percent of actual amount			$ 82.50	$ 99.00	Actual
~~LIVESTOCK FEEDING AREAS- pushwall~~ LIVESTOCK FEEDING AREA -Pushwall including concrete waste blocks, No. 57 stone, and geotextile	Each	Cost Share percent of actual amount					Cost Share percent of actual amount			$ 2,760.00	$ 3,312.00	Actual
PUMP-housing, fiberglass/site built	Each	$384.30			$ -	$ -	$385.00			$ -	$ -	Average
PUMP-solar powered water	Each	Cost Share percent of actual amount not to exceed			$ 5,000.00	$ 6,000.00	Cost Share percent of actual amount not to exceed			$ 5,000.00	$ 6,000.00	Actual
PUMP-water supply	Each	Cost Share percent of actual amount not to exceed			$ 3,700.00	$ 4,440.00	Cost Share percent of actual amount not to exceed			$ 3,700.00	$ 4,440.00	Actual
Spring Header Casing	Each	$241.56			$ -	$ -	$560.00			$ -	$ -	Average
~~STOCK TRAIL-existing, excavate/grade~~ STOCK TRAIL- fine grading, geotextile, stone (does	~~LinFt~~ SqYd	$1.21			$ -	$ -	$24.00			$ -	$ -	Average
~~STOCK TRAIL-new, excavate/grade~~ STOCK TRAIL- fine grading, establish vegetation	~~LinFt~~ SqYd	$2.42			$ -	$ -	$5.00			$ -	$ -	Average
~~STREAM CROSS-ford, ex 80-120 cuft~~	~~Job~~	~~$1,207.80~~			~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~STREAM CROSS-ford, ex<80 cuft~~	~~Job~~	~~$966.24~~			~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~STREAM CROSS-ford, ex>120 cuft~~	~~Job~~	~~$1,449.36~~			~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
STREAM PROTECTION WELL-construction/head protection	LinFt	$20.00			$ -	$ -	$20.00			$ -	$ -	Average
STREAM PROTECTION WELL-permit (only where agriculture is not exempt from well permit fees)	Each	Cost Share percent of actual amount not to exceed			$ 500.00	$ 600.00	Cost Share percent of actual amount not to exceed			$ 500.00	$ 600.00	Actual
STREAM PROTECTION WELL- Steel casing	LinFt	Cost Share percent of actual amount					Cost Share percent of actual amount			$ 25.00	$ 30.00	Actual
TANK-temp storage, 1000 gal	Each	$533.63			$ -	$ -	$1463.00			$ -	$ -	Average
TANK-temp storage, 1500 gal	Each	$657.70			$ -	$ -	$1872.00			$ -	$ -	Average
TANK-temp storage, 2500 gal	Each						$2318.00			$ -	$ -	Average

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
TANK- watering (fixed) Continuous Flow Concrete Tank	Each	$ 1,317.60	$ -	$ -	$ -	$ -	$ 1,863.00			$ -	$ -	Average
TANK- watering (fixed) Non-Continuous Flow Concrete Tank	Each						$ 1,574.00			$ -	$ -	Average
TANK-watering (fixed)/Pressurized 2-Hole Watering Tank (20 - 28 gal.)	Each	$ 1,032.12	$ 781.78	$ 923.42	$ -	$ -	$ 1280.75			$ -	$ -	Average
TANK-watering (fixed)/Pressurized 2-Hole Watering Tank (20 - 28 gal.), concrete pad	Each						$ 1,687.50			$ -	$ -	Average
TANK-watering (fixed)/Pressurized 4-Hole Watering Tank (33 gal.)	Each	$ 1,155.10	$ 792.76	$ 910.24	$ -	$ -	$ 1367.75			$ -	$ -	Average
TANK-watering (fixed)/Pressurized 4-Hole Watering Tank (33 gal.), concrete pad	Each						$ 1,774.75			$ -	$ -	Average
TANK-watering (fixed)/Pressurized 2-Hole Watering Tank (44 gal.)	Each	$ 1,305.52	$ 1,004.67	$ 1,049.69	$ -	$ -	$ 1,421.00			$ -	$ -	Average
TANK-watering (fixed)/Pressurized 2-Hole Watering Tank (44 gal.), concrete pad	Each						$ 1,827.75			$ -	$ -	Average
TANK-watering (fixed)/Pressurized 4-Hole Watering Tank (70 gal.)	Each	$ 1,100.20	$ 1,224.27	$ 1,262.70	$ -	$ -	$ 1,603.00			$ -	$ -	Average
TANK-watering (fixed)/Pressurized 4-Hole Watering Tank (70 gal.), concrete pad	Each						$ 2,009.75			$ -	$ -	Average
TANK-watering (portable) /Pressurized Waterer	Each	Cost Share percent of actual amount not to exceed			$ 500.00	$ 600.00	Cost Share percent of actual amount not to exceed			$ 500.00	$ 600.00	Actual
VALVE-float, automatic, brass	Each	$26.35			$ -	$ -	$60.50			$ -	$ -	Average
VALVE BOX-Plastic	Each						$105.00			$ -	$ -	Average
WATER SUPPLY-Municipal tap	Job	$1,170.47			$ 800.00	$ 960.00	Cost Share percent of actual amount not to exceed			$ 2300.00	$ 2760.00	Actual
~~WINDMILL~~	~~Each~~	~~Cost Share percent of actual amount not to exceed~~			~~$ 3,200.00~~	~~$ 3,840.00~~	~~Cost Share percent of actual amount not to exceed~~			~~$ 3,200.00~~	~~$ 3,840.00~~	~~Actual~~

Waste Management Measures

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
~~BIOVATOR - Rotary Composter~~	~~LinFt~~	~~$1,251.72~~			~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Actual~~
COMPOSTER BINS ONLY -wood, inside or outside storage structure, area of bin	SqFt	$6.04			$ -	$ -	$9.00			$ -	$ -	Average
COMPOSTER-lumber/roof	SqFt	$ 10.87	$ 9.06	$ 9.06	$ -	$ -	$ 16.00	$ 13.50	$ 13.50	$ -	$ -	Average
DRY STACK-dairy/beef/poultry, block	SqFt	$7.97			$ 33,000.00	$ 39,600.00	$13.75			$ -	$ -	Average
DRY STACK-dairy/beef/poultry, wood/metal	SqFt	$ 11.96	$ 9.96	$ 9.96			$ 17.75	$ 14.75	$ 14.75	$ -	$ -	Average
DRY STACK-truss arch, fabric roofed	SqFt	$5.74					$8.50			$ -	$ -	Average
FEED/WASTE STRUCTURE	Each	Cost Share percent of actual amount not to exceed			$ 27,500.00	$ 33,000.00	Cost Share percent of actual amount not to exceed			$ 40,500.00	$ 48,600.00	Actual
FORCED AERATION COMPOST SYSTEM < 720 sq ft w/Grinder and Storage	SqFt	$300.12			$ -	$ -	$301.00			$ -	$ -	Average

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
FORCED AERATION COMPOST SYSTEM 720 sq ft to 1440 sq ft w/Grinder and Storage	SqFt	$234.24			$ -	$ -	$235.00			$ -	$ -	Average
FORCED AERATION COMPOST SYSTEM > 1450 sq ft w/ Grinder and Storage	SqFt	$197.64			$ -	$ -	$198.00			$ -	$ -	Average
FORCED AERATION COMPOST SYSTEM 600 sq ft to 1450 sq ft w/ Storage	SqFt	$212.28			$ -	$ -	$213.00			$ -	$ -	Average
FORCED AERATION COMPOST SYSTEM > 1450 sq ft w/ Storage	SqFt	$183.00			$ -	$ -	$183.00			$ -	$ -	Average
FREEZER-installed	Each	Cost Share percent of actual amount not to exceed			$ 2,500.00	$ 3,000.00	Cost Share percent of actual amount not to exceed			$ 4,200.00	$ 5,040.00	Actual
GASIFICATION - 275 lb Corrugated Aluminumacity (delivered & installed)	Each	Cost Share percent of actual amount not to exceed			$ 31,175.00	$ 37,409.00	Cost Share percent of actual amount not to exceed			$ 31,175.25	$ 37,410.30	Actual
GASIFICATION - 400 lb Corrugated Aluminumacity (delivered & installed)	Each	Cost Share percent of actual amount not to exceed			$ 39,374.00	$ 47,249.00	Cost Share percent of actual amount not to exceed			$ 39,374.25	$ 47,429.10	Actual
GASIFICATION - 800 lb Corrugated Aluminumacity (delivered & installed)	Each	Cost Share percent of actual amount not to exceed			$ 46,906.00	$ 56,287.00	Cost Share percent of actual amount not to exceed			$ 49,905.75	$ 56,286.90	Actual
GASIFICATION - 1,200 lb Corrugated Aluminumacity (delivered & installed)	Each	Cost Share percent of actual amount not to exceed			$ 55,020.00	$ 66,024.00	Cost Share percent of actual amount not to exceed			$ 55,020.00	$ 66,024.00	Actual
~~INCINERATOR <=250 lb. Corrugated Aluminumacity~~ INCINERATOR <= 250 lb Capacity - includes concrete slab and electrical service	Each	Cost Share percent of actual amount not to exceed			$ 6,293.00	$ 7,552.00	Cost Share percent of actual amount not to exceed			$ 14,700.00	$ 17,640.00	Actual
~~INCINERATOR 400 lb. Corrugated Aluminumacity~~ INCINERATOR 400-500 lb Capacity - includes concrete slab and electrical service	Each	Cost Share percent of actual amount not to exceed			$ 6,695.00	$ 8,034.00	Cost Share percent of actual amount not to exceed			$ 16,800.00	$ 20,160.00	Actual
~~INCINERATOR 500 lb. Corrugated Aluminumacity~~	~~Each~~	~~Cost Share percent of actual amount not to exceed~~			~~$ 8,094.00~~	~~$ 9,713.00~~						~~Actual~~
~~INCINERATOR 650/700 lb. Corrugated Aluminumacity~~ INCINERATOR 600-700 lb Capacity - includes concrete slab and electrical service	Each	Cost Share percent of actual amount not to exceed			$ 8,517.00	$ 10,220.00	Cost Share percent of actual amount not to exceed			$ 19,125.00	$ 22,950.00	Actual
~~INCINERATOR 800 lb. Corrugated Aluminumacity~~ INCINERATOR 800 - 1000 lb Capacity- includes concrete slab and electrical service	Each	Cost Share percent of actual amount not to exceed			$ 8,899.00	$ 10,679.00	Cost Share percent of actual amount not to exceed			$ 21,300.00	$ 25,560.00	Actual
~~INCINERATOR 1200 lb. Corrugated Aluminumacity~~ INCINERATOR >1,000 lb Capacity - includes concrete slab and electrical service	Each	Cost Share percent of actual amount not to exceed			$ 9,577.00	$ 11,492.00	Cost Share percent of actual amount not to exceed			$ 26,175.00	$ 31,410.00	Actual
INCINERATOR-Roof w/ storm collar	SqFt	$13.96			$ -	$ -	$20.50			$ -	$ -	Actual
Lagoon Biosolids Removal	Gallon	$0.02			$ 25,000.00	$ 25,000.00	$0.03			$ 25,000.00	$ 25,000.00	Flat Rate
~~PUMP-manure/chopper/agitator~~	~~Each~~	~~Cost Share percent of actual amount not to exceed~~			~~$ 5,339.00~~	~~$ 6,407.00~~	~~Cost Share percent of actual amount not to exceed~~					~~Actual~~
~~RAMP-push off, waste mgt~~	~~Each~~	~~Cost Share percent of actual amount not to exceed~~			~~$ 4,000.00~~	~~$ 4,800.00~~	~~Cost Share percent of actual amount not to exceed~~					~~Actual~~
ROTARY DRUMS-2900 gal, w/drive motor	Each	Cost Share percent of actual amount not to exceed			$ 18,000.00	$ 21,600.00	Cost Share percent of actual amount not to exceed			$ 20,000.00	$ 24,000.00	Actual
ROTARY DRUMS-2900 gal, w/forced aeration system	Each	Cost Share percent of actual amount not to exceed			$ 22,400.00	$ 26,880.00	Cost Share percent of actual amount not to exceed			$ 25,000.00	$ 30,000.00	Actual

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
SOLIDS SEPARATION FROM TANK-BASED AQUACULTURE	Each	Cost Share percent of actual amount not to exceed			$ 20,000.00	$ 24,000.00	Cost Share percent of actual amount not to exceed			$ 37,500.00	$ 45,000.00	Actual
~~WASTE APPLICATION - poultry litter spreader~~ WASTE APPLICATION-Poultry litter/Manure spreader	Each	Cost Share percent of actual amount not to exceed			$ 10,500.00	$ 12,600.00	Cost Share percent of actual amount not to exceed			$ 18,000.00	$ 21,600.00	Actual
WASTE APPLICATION - system	Job	Cost Share percent of actual amount not to exceed			$ 35,000.00	$ 42,000.00	Cost Share percent of actual amount not to exceed			$ 35,000.00	$ 42,000.00	Actual
WASTE IMPOUNDMENT - closure	Job	Cost Share percent of actual amount not to exceed			$ 75,000.00	$ 90,000.00	Cost Share percent of actual amount not to exceed			$ 75,000.00	$ 90,000.00	Actual

Water Control Structures

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
ANTISEEP COLL-alum, 12"-18" pipe	Each		$141.31		$ -	$ -		$650.00		$ -	$ -	Average
ANTISEEP COLL-alum, 24" pipe	Each		$172.72		$ -	$ -		$1010.00		$ -	$ -	Average
ANTISEEP COLL-alum, 30" pipe	Each		$196.27		$ -	$ -		$1250.00		$ -	$ -	Average
ANTISEEP COLL-alum, 36" pipe	Each		$227.67		$ -	$ -		$1490.00		$ -	$ -	Average
ANTISEEP COLL-alum, 42" pipe	Each		$282.63		$ -	$ -		$1730.00		$ -	$ -	Average
ANTISEEP COLL-alum, 48" pipe	Each		$321.88		$ -	$ -		$1970.00		$ -	$ -	Average
ANTISEEP COLL-alum, 54" pipe	Each		$361.13		$ -	$ -		$2210.00		$ -	$ -	Average
ANTISEEP COLL-alum, 60" pipe	Each		$408.24		$ -	$ -		$2450.00		$ -	$ -	Average
ANTISEEP COLL-alum, 72" pipe	Each		$518.15		$ -	$ -		$2930.00		$ -	$ -	Average
~~ANTISEEP COLL-Corrugated Aluminum 48"x48" (12"pipe separate costs)~~	~~Each~~		~~$165.58~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~ANTISEEP COLL- Corrugated Aluminum 54" x 54" (15" pipe separate costs)~~	~~Each~~		~~$272.63~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~ANTISEEP COLL- Corrugated Aluminum 60" x 60" (18" pipe separate costs)~~	~~Each~~		~~$286.91~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~ANTISEEP COLL-Corrugated Aluminum 72"x72" (24" pipe separate costs)~~	~~Each~~		~~$369.70~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~ANTISEEP COLL-Corrugated Aluminum 78" x 78" (30" pipe separate costs)~~	~~Each~~		~~$411.09~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~ANTISEEP COLL-Corrugated Aluminum 84" x 84" (36" pipe separate costs)~~	~~Each~~		~~$570.96~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~ANTISEEP COLL-Corrugated Aluminum 90" x 90" (42" pipe separate costs)~~	~~Each~~		~~$573.81~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~ANTISEEP COLL-Corrugated Aluminum 96" x 96" (48" pipe separate costs)~~	~~Each~~		~~$649.47~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~ANTISEEP COLL-Corrugated Aluminum 108" x 108" (60" pipe separate costs)~~	~~Each~~		~~$719.41~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~ANTISEEP COLL-Corrugated Aluminum 120" x 120" (72" pipe separate costs)~~	~~Each~~		~~$802.20~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~ANTISEEP COLL-Polyvinyl Chloride 48"x48"~~	~~Each~~		~~$82.64~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
~~ANTISEEP COLL-steel pipe 42"x42"-48"x48"~~	~~Each~~		~~$102.06~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~ANTISEEP COLL-steel pipe 56"x56"-72"x72"~~	~~Each~~		~~$227.67~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
~~ANTISEEP COLL-steel pipe 78"x78"-90"x90"~~	~~Each~~		~~$565.25~~		~~$ -~~	~~$ -~~				~~$ -~~	~~$ -~~	~~Average~~
GATE-shear, alum, 10'x3/4" lift rod	Each		$227.67		$ -	$ -		$230.00		$ -	$ -	Average
GATE-shear, Coated Corrugated Steel w/ frame/rod 6"	Each		$425.51		$ -	$ -		$615.00		$ -	$ -	Average
GATE-shear, Coated Corrugated Steel w/ frame/rod 8"	Each		$648.47		$ -	$ -		$650.00		$ -	$ -	Average
GATE-shear, Coated Corrugated Steel w/ frame/rod 10"	Each		$712.84		$ -	$ -		$765.00		$ -	$ -	Average
GATE-shear, Coated Corrugated Steel w/ frame/rod 12"	Each		$1,334.62		$ -	$ -		$1,335.00		$ -	$ -	Average
GATE-shear, Polyvinyl Chloride pipe	Each		$295.19		$ -	$ -		$535.00		$ -	$ -	Average
GATE-slide, Polyvinyl Chloride pipe 8"	Each		$712.84		$ -	$ -		$915.00		$ -	$ -	Average
GATE-slide, Polyvinyl Chloride pipe 12"	Each		$1,884.17		$ -	$ -		$1,885.00		$ -	$ -	Average
HEADWALL-aluminum	SqFt		$20.41		$ -	$ -		$110.00		$ -	$ -	Average
~~HEADWALL-concrete~~ HEADWALL-concrete - includes steel reinforcement	CuYd		$314.03		$ -	$ -		$630.00		$ -	$ -	Average
HEADWALL-sand cement bag >=60 lb	Bag		$4.08		$ -	$ -		$8.50		$ -	$ -	Average
RISER-Corrugated Aluminum 15"-18"/16 ga	LinFt		$47.26		$ -	$ -		$555.00		$ -	$ -	Average
RISER-Corrugated Aluminum 21"-24"/16 ga	LinFt		$70.89		$ -	$ -		$575.00		$ -	$ -	Average
RISER-Corrugated Aluminum 30"-36"/14 ga	LinFt		$113.09		$ -	$ -		$600.00		$ -	$ -	Average
RISER-Corrugated Aluminum perf 15"-18"/16 ga	LinFt		$52.32		$ -	$ -		$620.00		$ -	$ -	Average
RISER-Corrugated Aluminum perf 21"-24"/16 ga	LinFt		$75.96		$ -	$ -		$645.00		$ -	$ -	Average
RISER-Corrugated Aluminum perf 30"-36"/14 ga	LinFt		$118.15		$ -	$ -		$705.00		$ -	$ -	Average
RISER-Coated Corrugated Steel 8"-12"/16 ga	LinFt		$28.69		$ -	$ -		$510.00		$ -	$ -	Average
RISER-Coated Corrugated Steel 15"-21"/16 ga	LinFt		$45.57		$ -	$ -		$605.00		$ -	$ -	Average
RISER-Coated Corrugated Steel 24"-30"/16 ga	LinFt		$67.52		$ -	$ -		$655.00		$ -	$ -	Average
RISER-Coated Corrugated Steel 36"-48"/14 ga	LinFt		$141.78		$ -	$ -		$720.00		$ -	$ -	Average
RISER-Coated Corrugated Steel 54"/12 ga	LinFt		$141.78		$ -	$ -		$765.00		$ -	$ -	Average
RISER-Coated Corrugated Steel perf 15"-21"/16 gauge	LinFt		$50.64		$ -	$ -		$630.00		$ -	$ -	Average
RISER-Coated Corrugated Steel perf 24"-30"/16 gauge	LinFt		$72.58		$ -	$ -		$675.00		$ -	$ -	Average
RISER-Coated Corrugated Steel perf 36"-48"/14 gauge	LinFt		$146.02		$ -	$ -		$765.00		$ -	$ -	Average
RISER-Coated Corrugated Steel perf 54"/12 gauge	LinFt		$146.02		$ -	$ -		$810.00		$ -	$ -	Average

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
~~RISER-fb .175" plate 102"~~ RISER-fb .175in plate 102in (5' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each		$6,737.00		$ -	$ -		$18,972.00		$ -	$ -	Average
~~RISER-fb .175" plate 108"~~ RISER-fb .175in plate 108in (5' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each		$7,544.61		$ -	$ -		$21,282.00		$ -	$ -	Average
~~RISER-fb .175" plate 114"~~ RISER-fb .175in plate 114in (5' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each		$8,028.35		$ -	$ -		$23,742.00		$ -	$ -	Average
~~RISER-fb .175" plate 120"~~ RISER-fb .175in plate 120in (5' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each		$8,516.23		$ -	$ -		$26,351.00		$ -	$ -	Average
~~RISER-fb 18"/14 ga~~ RISER-fb 18" x 5' (4' water ht) Aluminum Flashboard Riser w/ 2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each		$1,042.21		$ -	$ -		$2,330.00		$ -	$ -	Average
~~RISER-fb 24"/14 ga~~ RISER-fb 24" x 5' (4' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each		$1,146.02		$ -	$ -		$2,550.00		$ -	$ -	Average
~~RISER-fb 30"/14 ga~~ RISER-fb 30" x 5' (4' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each		$1,245.67		$ -	$ -		$2,915.00		$ -	$ -	Average
~~RISER-fb 36"/14 ga~~ RISER-fb 36" x 5' (4' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each		$1,719.03		$ -	$ -		$3,443.00		$ -	$ -	Average
~~RISER-fb 42"/12 ga~~ RISER-fb 42" x 5' (4' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each		$1,968.14		$ -	$ -		$4,095.00		$ -	$ -	Average
~~RISER-fb 48"/12 ga~~ RISER-fb 48" x 5' (4' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each		$2,192.38		$ -	$ -		$4,910.00		$ -	$ -	Average

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
~~RISER-fb 54"/12 ga~~ RISER-fb 54" x 5' (4' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each		$2,545.32		$ -	$ -		$5,875.00		$ -	$ -	Average
~~RISER-fb 60"/12 ga~~ RISER-fb 60" x 5' (4' water ht) Aluminum Flashboard Riser w/ 2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each		$3,043.59		$ -	$ -		$6,988.00		$ -	$ -	Average
~~RISER-fb 66"/12 ga~~ RISER-fb 66" x 5' (4' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each		$3,220.06		$ -	$ -		$8,251.00		$ -	$ -	Average
~~RISER-fb 72"/12 ga~~ RISER-fb 72" x 6' (5' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each		$3,778.53		$ -	$ -		$9,664.00		$ -	$ -	Average
~~RISER-fb 78"/12 ga~~ RISER-fb 78in/12 ga (5' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each		$4,299.64		$ -	$ -		$11,226.00		$ -	$ -	Average
~~RISER-fb 84"/10 ga~~ RISER-fb 84in/10 ga (5' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each		$4,808.29		$ -	$ -		$12,938.00		$ -	$ -	Average
~~RISER-fb 90"/10 ga~~ RISER-fb 90in/10 ga (5' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each		$5,362.61		$ -	$ -		$14,800.00		$ -	$ -	Average
~~RISER-fb 96"/10 ga~~ RISER-fb 96in/10 ga (5' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each		$5,929.39		$ -	$ -		$16,811.00		$ -	$ -	Average
WATER CONTROL STRUCTURE - Automated Valve - locally programmable	Each							$6,485.00		$ -	$ -	Average
WATER CONTROL STRUCTURE in-line, installed 6"x4'	Each		$836.68		$ -	$ -		$1135.00		$ -	$ -	Average
WATER CONTROL STRUCTURE in-line, installed 6"x5'	Each		$895.97		$ -	$ -		$1261.75		$ -	$ -	Average
WATER CONTROL STRUCTURE in-line, installed 6"x6'	Each		$951.97		$ -	$ -		$1443.25		$ -	$ -	Average
WATER CONTROL STRUCTURE in-line, installed 8"x4'	Each		$904.75		$ -	$ -		$1140.50		$ -	$ -	Average

Component	Unit Type	AREA 1 Unit Cost	AREA 2 Unit Cost	AREA 3 Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
WATER CONTROL STRUCTURE in-line, installed 8"x5'	Each		$1,033.22		$ -	$ -		$1,290.00		$ -	$ -	Average
WATER CONTROL STRUCTURE in-line, installed 8"x6'	Each		$1,067.26		$ -	$ -		$1,518.25		$ -	$ -	Average
WATER CONTROL STRUCTURE in-line, installed WATERGATE 8 in	Each		$653.31		$ -	$ -		$1479.75		$ -	$ -	Average
WATER CONTROL STRUCTURE in-line, installed WATERGATE 10 in	Each		$818.01		$ -	$ -		$923.50		$ -	$ -	Average

For actual cost items, the payment is based on 75 or 90 percent of actual cost, not to exceed the established cost share cap. The cost share cap listed is the maximum amount of cost share reimbursement allowed for that component/BMP.

FY 2023 Agriculture Cost Share Program Average Cost List

Agrichemical Pollution Prevention

Component	Unit Type	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
ABANDONED TREE REMOVAL	Acre	Cost Share percent of actual amount not to exceed			$ 833.00	$ 1000.00	Actual
AGRICHEMICAL CONTAINMENT AND MIXING FACILITY	Each	Cost Share percent of actual amount not to exceed			$ 18,750.00	$ 22,500.00	Actual
AGRICHEMICAL HANDLING FACILITY-building-incl. plumbing, electrical, and misc	SqFt	$53.50			$ -	$ -	Average
Agrichemical Handling Facility-chemical storage - including block, sealant, perlite, and platform	SqFt	$58.50			$ -	$ -	Average
AGRICHEMICAL MIXING STATION - Portable	Each	Cost Share percent of actual amount not to exceed			$ 4,500.00	$ 5,400.00	Average
AGRICHEMICAL FACILITY-PUMP- housing, fiberglass/site built	Each	$385.00			$ -	$ -	Average
AGRICHEMICAL FACILITY-PUMP- solar powered water	Each	Cost Share percent of actual amount not to exceed			$ 5,000.00	$ 6,000.00	Actual
AGRICHEMICAL FACILITY-PUMP- water supply	Each	Cost Share percent of actual amount not to exceed			$ 3,700.00	$ 4,440.00	Actual
AGRICHEMICAL FACILITY-WATER SUPPLY municipal tap	Job	Cost Share percent of actual amount not to exceed			$ 2300.00	$ 2760.00	Actual
AGRICHEMICAL FACILITY- WELL construction/head protection	LinFt	$20.00			$ -	$ -	Average
AGRICHEMICAL FACILITY- WELL permit (only where agriculture is not exempt from well permit fees)	Each	Cost Share percent of actual amount not to exceed			$ 500.00	$ 600.00	Actual
AGRICHEMICAL FACILITY- WELL Steel casing	LinFt	Cost Share percent of actual amount not to exceed			$ 25.00	$ 30.00	Actual
CHEMIGATION/FERTIGATION BACKFLOW PREVENTION SYSTEM	Each	Cost Share percent of actual amount not to exceed			$ 2,160.00	$ 2,592.00	Actual
PRECISION AGRICHEMICAL APPLICATION TIER-1. GPS guidance	Each	Cost Share percent of actual amount not to exceed			$ 2,700.00	$ 3,240.00	Actual
PRECISION AGRICHEMICAL APPLICATION TIER-2. Automatic Application Rate Control	Each	Cost Share percent of actual amount not to exceed			$ 2,378.00	$ 2,853.00	Actual
PRECISION AGRICHEMICAL APPLICATION TIER-3. Boom section control	Each	Cost Share percent of actual amount not to exceed			$ 2,520.00	$ 3,024.00	Actual

Construction and Building Materials (Bricks, Concrete, Lumber, Ponds, Stream Restoration, Micro-Irrigation)

Component	Unit Type	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
ABANDONED WELL CLOSURE	Each	Cost Share percent of actual amount not to exceed			$ 1,800.00	$ 2,160.00	Actual
AGRICULTURAL POND - Sediment Removal Only	Each	Cost Share percent of actual amount not to exceed			$ 7,000.00	$ 8,400.00	Actual
AGRICULTURAL POND RESTORATION/REPAIR	Job	Cost Share percent of actual amount not to exceed			$ 30,000.00	$ 36,000.00	Actual
AGRICULTURAL POND RESTORATION/ REPAIR-Engineering	Job	Cost Share percent of actual amount not to exceed			$ 10,000.00	$ 12,000.00	Actual
AGRICULTURAL WATER COLLECTION SYSTEM	Job	Cost Share percent of actual amount not to exceed			$ 15,000.00	$ 18,000.00	Actual
ANIMAL GUARD-flap gate	Each	$4.39			$ -	$ -	Average
BRICK-8"	Each	$80.00			$ -	$ -	Average

CATCH BASIN	Job	Cost Share percent of actual amount not to exceed	$ 2,355.00	$ 2,862.00	Actual
CLEARING-removing woods	Acre	$ 5032.00	$ -	$ -	Average
CONCRETE BLOCK-6" or 8"	Each	$4.25	$ -	$ -	Average
CONCRETE BLOCK-12"	Each	$4.75	$ -	$ -	Average
CONCRETE-non-reinforced <= 5 CuYd	CuYd	$535.00	$ -	$ -	Average
CONCRETE-non-reinforced > 5 CuYd	CuYd	$491.00	$ -	$ -	Average
CONCRETE-Reinforced (WW or Fiber - does not include rebar)	CuYd	$538.00	$ -	$ -	Average
FENCE-silt, install/maintain	LinFt	$2.87	$ -	$ -	Average
FILTER CLOTH-geotextile fabric	SqYd	$3.50	$ -	$ -	Average
GRATE-removable 24" frame & grate	Each	$425.00	$ -	$ -	Average
GRATE-removable 30" frame & grate	Each	$575.00	$ -	$ -	Average
GRATE-removable 36" frame & grate	Each	$725.00	$ -	$ -	Average
GUTTERS-assembled alum/vinyl 5"	LinFt	$ 5.75	$ -	$ -	Average
GUTTERS-assembled alum/vinyl 6"	LinFt	$ 7.75	$ -	$ -	Average
GUTTERS-downspouts	LinFt	$ 4.75	$ -	$ -	Average
GUTTERS-seamless alum 5"	LinFt	$ 9.50	$ -	$ -	Average
GUTTERS-seamless alum 6"	LinFt	$ 14.75	$ -	$ -	Average
JUNCTION BOX-concrete	Each	$260.00	$ -	$ -	Average
LUMBER-post, pressure treat 4" x 4"	LinFt	$4.03	$ -	$ -	Average
LUMBER-post, pressure treat 4" x 6"	LinFt	$6.62	$ -	$ -	Average
LUMBER-post, pressure treat 6" x 6"	LinFt	$ 12.82	$ -	$ -	Average
LUMBER-pressure treated boards	BdFt	$2.78	$ -	$ -	Average
EROSION CONTROL MATTING - LONG TERM-TRM OR 700 GRAM COIR	SqYd	$9.50	$ -	$ -	Average
EROSION CONTROL MATTING - TEMP, 12 MONTHS or less LONGEVITY	SqYd	$2.50	$ -	$ -	Average
EROSION CONTROL MATTING - TEMP, 18-36 MONTHS LONGEVITY	SqYd	$4.25	$ -	$ -	Average
EROSION CONTROL MATTING - TEMP, < 400 SQ FT, STRAW -12 MONTHS OR LESS LONGEVITY	SqFt	$0.35	$ -	$ -	Average
MICROIRRIGATION SYSTEM	Job	Cost Share percent of actual amount not to exceed	$ 30,000.00	$ 36,000.00	Actual
Snow/Ice Guard	LinFt	$21.00	$ -	$ -	Average
STEEL-reinforce, wire fabric/rebar	Lb	$ 2.85	$ -	$ -	Average
STONE-Boulders (installed)	Ton	$138.25	$ -	$ -	Average
STONE-gravel	Ton	$ 50.00	$ -	$ -	Average
STONE-riprap	Ton	$ 69.00	$ -	$ -	Average
STREAM DEBRIS REMOVAL	Job	Cost Share percent of actual amount not to exceed	$ 15,000.00	$ 18,000.00	Actual
STREAM RESTORATION	Job	Cost Share percent of actual amount not to exceed	$ 50,000.00	$ 60,000.00	Actual
USE EXCLUSION FENCE - includes gates and signs	LinFt	$2.41	$ -	$ -	Average

Pipes and Trash Guards

NOTE: PIPE - CORRUGATED METAL, CORRUGATED ALUMINUM, REINFORCED CONCRETE (RCP), CORRUGATED STORMWATER Where excavation and backfill are included, an assumed volume is calculated by pipe diameter plus 3' wide by pipe diameter plus 2' deep per linear foot (EX. 24" pipe would be 5' wide x4' deep per linear foot)

Component	Unit Type	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
PIPE FITTING-Corrugated Polyethylene 4"	Each	$9.75			$ -	$ -	Average
PIPE FITTING-Corrugated Polyethylene 5"	Each	$10.50			$ -	$ -	Average
PIPE FITTING-Corrugated Polyethylene 6"	Each	$14.25			$ -	$ -	Average
PIPE FITTING-Corrugated Polyethylene 8"	Each	$36.50			$ -	$ -	Average
PIPE FITTING-Corrugated Polyethylene 10"	Each	$49.50			$ -	$ -	Average
PIPE FITTING-Corrugated Polyethylene 12"	Each	$62.25			$ -	$ -	Average
PIPE FITTING-Corrugated Polyethylene 15"	Each	$103.75			$ -	$ -	Average
PIPE FITTING-Corrugated Polyethylene 18"	Each	$208.50			$ -	$ -	Average
PIPE FITTING-Polyvinyl Chloride <=3"	Each	$8.50			$ -	$ -	Average
PIPE FITTING-Polyvinyl Chloride 4"	Each	$17.50			$ -	$ -	Average
PIPE FITTING-Polyvinyl Chloride 6"	Each	$49.00			$ -	$ -	Average
PIPE FITTING-Polyvinyl Chloride 8"	Each	$110.50			$ -	$ -	Average
PIPE FITTING-Polyvinyl Chloride 10"	Each	$471.00			$ -	$ -	Average
PIPE FITTING-Polyvinyl Chloride 12"	Each	$708.00			$ -	$ -	Average
PIPE FITTING-stormwater 12"	Each	$210.00			$ -	$ -	Average
PIPE FITTING-stormwater 24"	Each	$625.00			$ -	$ -	Average
PIPE-bent support for outlet	Each	$150.00			$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized and bituminous coated with paved invert, 16 ga., 8"- includes excavation and backfill	LinFt	$42.00			$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized and bituminous coated with paved invert, 16 ga., 10"- includes excavation and backfill	LinFt	$44.25			$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized and bituminous coated with paved invert, 16 ga., 12"- includes excavation and backfill	LinFt	$51.00			$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized and bituminous coated with paved invert, 16 ga., 15"- includes excavation and backfill	LinFt	$52.50			$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized and bituminous coated with paved invert, 16 ga., 18"- includes excavation and backfill	LinFt	$60.00			$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized and bituminous coated with paved invert, 14 ga., 24"- includes excavation and backfill	LinFt	$65.25			$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized and bituminous coated with paved invert, 16 ga., 48"- includes excavation and backfill	LinFt	$117.25			$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized and bituminous coated with paved invert, 16 ga., 60"- includes excavation and backfill	LinFt	$173.00			$ -	$ -	Average

PIPE- CORRUGATED METAL, galvanized and bituminous coated with paved invert, 16 ga., 72"- includes excavation and backfill	LinFt	$219.50	$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 16 ga., 6" - includes excavation and backfill	LinFt	$44.00	$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 16 ga., 8" - includes excavation and backfill	LinFt	$46.00	$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 16 ga., 10" - includes excavation and backfill	LinFt	$47.50	$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 16 ga., 12" - includes excavation and backfill	LinFt	$55.00	$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 16 ga., 15" - includes excavation and backfill	LinFt	$60.00	$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 16 ga., 18" - includes excavation and backfill	LinFt	$61.75	$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 14 ga., 24" - includes excavation and backfill	LinFt	$84.00	$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 14 ga., 30" - includes excavation and backfill	LinFt	$98.50	$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 12 ga., 36" - includes excavation and backfill	LinFt	$144.00	$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 12 ga., 42" - includes excavation and backfill	LinFt	$164.00	$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 12 ga., 48" - includes excavation and backfill	LinFt	$184.00	$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 12 ga., 54" - includes excavation and backfill	LinFt	$232.00	$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 12 ga., 60" - includes excavation and backfill	LinFt	$252.50	$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 12 ga., 66" - includes excavation and backfill	LinFt	$274.50	$ -	$ -	Average
PIPE- CORRUGATED ALUMINUM, 12 ga., 72" - includes excavation and backfill	LinFt	$298.00	$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized uncoated, 16 ga., 8" - includes excavation and backfill	LinFt	$42.50	$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized uncoated, 16 ga., 10" - includes excavation and backfill	LinFt	$44.25	$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized uncoated, 16 ga., 12" - includes excavation and backfill	LinFt	$59.00	$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized uncoated, 16 ga., 15" - includes excavation and backfill	LinFt	$67.25	$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized uncoated, 16 ga., 18" - includes excavation and backfill	LinFt	$72.50	$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized uncoated, 14 ga., 21" - includes excavation and backfill	LinFt	$60.00	$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized uncoated, 14 ga., 24" - includes excavation and backfill	LinFt	$77.50	$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized uncoated, 14 ga., 27" - includes excavation and backfill	LinFt	$69.00	$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized uncoated, 14 ga., 30" - includes excavation and backfill	LinFt	$91.50	$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized uncoated, 12 ga., 36" - includes excavation and backfill	LinFt	$97.00	$ -	$ -	Average

PIPE- CORRUGATED METAL, galvanized uncoated, 12 ga., 48" - includes excavation and backfill	LinFt	$122.00	$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized uncoated, 10 ga., 60" - includes excavation and backfill	LinFt	$178.50	$ -	$ -	Average
PIPE- CORRUGATED METAL, galvanized uncoated, 10 ga., 72" - includes excavation and backfill	LinFt	$212.00	$ -	$ -	Average
PIPE- CORRUGATED PLASTIC, polyethylene, single wall, 4" - does not include excavation	LinFt	$5.00	$ -	$ -	Average
PIPE- CORRUGATED PLASTIC, polyethylene, single wall, 6" - does not include excavation	LinFt	$7.50	$ -	$ -	Average
PIPE- CORRUGATED PLASTIC, polyethylene, single wall, 8" - does not include excavation	LinFt	$12.25	$ -	$ -	Average
PIPE- CORRUGATED PLASTIC, polyethylene, single wall, 10" - does not include excavation	LinFt	$15.50	$ -	$ -	Average
PIPE- CORRUGATED PLASTIC, polyethylene, single wall, 12" - does not include excavation	LinFt	$20.25	$ -	$ -	Average
PIPE- CORRUGATED PLASTIC, polyethylene, double wall, 15" - does not include excavation	LinFt	$23.75	$ -	$ -	Average
PIPE- CORRUGATED PLASTIC, polyethylene, double wall, 18" - does not include excavation	LinFt	$35.25	$ -	$ -	Average
PIPE- CORRUGATED PLASTIC, polyethylene, double wall, 24" - does not include excavation	LinFt	$55.00	$ -	$ -	Average
PIPE- CORRUGATED PLASTIC, polyethylene, double wall, 36" - does not include excavation	LinFt	$73.25	$ -	$ -	Average
PIPE- CORRUGATED PLASTIC, polyethylene, double wall, 48" - does not include excavation	LinFt	$94.00	$ -	$ -	Average
PIPE-Hickenbottom outlet 6"	Each	$190.50	$ -	$ -	Average
PIPE-Hickenbottom outlet 8"	Each	$272.50	$ -	$ -	Average
PIPE-Hickenbottom outlet 10"	Each	$362.25	$ -	$ -	Average
PIPE-Surface inlet tee (6 in)	Each	$54.50	$ -	$ -	Average
PIPE-Surface inlet tee (8 in)	Each	$76.00	$ -	$ -	Average
PIPE-Surface inlet tee (10 in)	Each	$174.00	$ -	$ -	Average
PIPE- Perf drain w/ GEOTEXTILE FILTER, INCLUDES EXCAVATION/BACKFILL OF 2'X3' PER LF	LinFt	$7.00	$ -	$ -	Average
PIPE- Perf drain w/ 2'X2' GRAVEL FILTER, INCLUDES EXCAVATION/BACKFILL OF 2'X3' PER LF	LinFt	$16.75	$ -	$ -	Average
PIPE-Perf drain w/o filter, INCLUDES EXCAVATION/BACKFILL OF 2'X3' PER LF	LinFt	$5.75	$ -	$ -	Average
PIPE-Polyvinyl Chloride 1 1/2" or less (does not include excavation)	LinFt	$3.75	$ -	$ -	Average
PIPE-Polyvinyl Chloride 2" (does not include excavation)	LinFt	$7.75	$ -	$ -	Average
PIPE-Polyvinyl Chloride 2.5" (does not include excavation)	LinFt	$10.50	$ -	$ -	Average
PIPE-Polyvinyl Chloride 3" (does not include excavation)	LinFt	$12.25	$ -	$ -	Average
PIPE-Polyvinyl Chloride 4" (does not include excavation)	LinFt	$10.00	$ -	$ -	Average
PIPE-Polyvinyl Chloride 5" (does not include excavation)	LinFt	$16.75	$ -	$ -	Average
PIPE-Polyvinyl Chloride 6" (does not include excavation)	LinFt	$18.00	$ -	$ -	Average
PIPE-Polyvinyl Chloride 8" (does not include excavation)	LinFt	$20.00	$ -	$ -	Average

PIPE-Polyvinyl Chloride 10" (does not include excavation)	LinFt	$22.00	$ -	$ -	Average
PIPE-Polyvinyl Chloride 12" (does not include excavation)	LinFt	$25.00	$ -	$ -	Average
PIPE-Polyvinyl Chloride, quick coupling 3/4"-1"	Each	$30.50	$ -	$ -	Average
PIPE- PE Water supply/fittings, <=2in, includes trenching	LinFt	$3.50	$ -	$ -	Average
PIPE- REINFORCED CONCRETE (RCP), class 3, 12" - includes excavation and backfill	LinFt	$57.75	$ -	$ -	Average
PIPE- REINFORCED CONCRETE (RCP), class 3, 15" - includes excavation and backfill	LinFt	$62.75	$ -	$ -	Average
PIPE- REINFORCED CONCRETE (RCP), class 3, 18" - includes excavation and backfill	LinFt	$68.00	$ -	$ -	Average
PIPE- REINFORCED CONCRETE (RCP), class 3, 21" - includes excavation and backfill	LinFt	$73.75	$ -	$ -	Average
PIPE- REINFORCED CONCRETE (RCP), class 3, 24" - includes excavation and backfill	LinFt	$89.00	$ -	$ -	Average
PIPE- REINFORCED CONCRETE (RCP), class 3, 30" - includes excavation and backfill	LinFt	$143.75	$ -	$ -	Average
PIPE- REINFORCED CONCRETE (RCP), class 3, 36" - includes excavation and backfill	LinFt	$197.50	$ -	$ -	Average
PIPE- REINFORCED CONCRETE (RCP), class 3, 48" - includes excavation and backfill	LinFt	$303.25	$ -	$ -	Average
PIPE- REINFORCED CONCRETE (RCP), class 3, 72" - includes excavation and backfill	LinFt	$496.50	$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL, 4" - includes excavation and backfill	LinFt	$33.00	$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 6" - includes excavation and backfill	LinFt	$35.00	$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 8" - includes excavation and backfill	LinFt	$37.00	$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 10" - includes excavation and backfill	LinFt	$42.75	$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 12" - includes excavation and backfill	LinFt	$41.25	$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 15" - includes excavation and backfill	LinFt	$42.75	$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 18" - includes excavation and backfill	LinFt	$62.50	$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 24" - includes excavation and backfill	LinFt	$83.75	$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 30" - includes excavation and backfill	LinFt	$65.50	$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 36" - includes excavation and backfill	LinFt	$82.00	$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 42" - includes excavation and backfill	LinFt	$83.00	$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 48" - includes excavation and backfill	LinFt	$100.25	$ -	$ -	Average

PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 54" - includes excavation and backfill	LinFt	$124.75	$ -	$ -	Average
PIPE-CORRUGATED STORMWATER, TYPE S, SMOOTH WALL , 60" - includes excavation and backfill	LinFt	$213.25	$ -	$ -	Average
FACE PLATE alum. 12"-18"-INSTALLED	Each	$1200.00	$ -	$ -	Average
TRASH GD-Corrugated Aluminum 15"	Each	$500.00	$ -	$ -	Average
TRASH GD-Corrugated Aluminum 24"	Each	$610.00	$ -	$ -	Average
TRASH GD-Corrugated Aluminum 30"	Each	$550.00	$ -	$ -	Average
TRASH GD-Corrugated Aluminum 36"	Each	$790.00	$ -	$ -	Average
TRASH GD-Corrugated Aluminum 48"	Each	$872.00	$ -	$ -	Average
TRASH GD-Corrugated Aluminum 54"	Each	$955.00	$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 12"	Each	$110.00	$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 15"	Each	$130.00	$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 18"	Each	$160.00	$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 24"	Each	$230.00	$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 30"	Each	$290.00	$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 36"	Each	$390.00	$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 42"	Each	$590.00	$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 48"	Each	$630.00	$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 60"	Each	$1050.00	$ -	$ -	Average
TRASH GD-Polyvinyl Chloride/Coated Corrugated Steel/steel 72"	Each	$1500.00	$ -	$ -	Average

Establishment of Trees and Riparian Buffers

Component	Unit Type	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
TREE ESTABLISHMENT - Bedding (Cropland Conversion to Trees ONLY)	Acre	$99.00			$ -	$ -	Average
TREE ESTABLISHMENT - Chemical Release	Acre	$110.00			$ -	$ -	Average
TREE ESTABLISHMENT - Chemical Site Prep	Acre	$140.00			$ -	$ -	Average
TREE ESTABLISHMENT - Disking	Acre	$67.00			$ -	$ -	Average
TREE ESTABLISHMENT - Mowing/Bushhogging	Acre	$67.00			$ -	$ -	Average
TREE ESTABLISMENT - Prescribed Burning	Acre	$66.00			$ -	$ -	Average
TREE ESTABLISHMENT - Scalping/Furrowing	Acre	$106.00			$ -	$ -	Average
TREE ESTABLISHMENT - Subsoiling	Acre	$75.00			$ -	$ -	Average
TREE-plant, hardwood	Acre	$247.00			$ -	$ -	Average
TREE-plant, loblolly and shortleaf pine	Acre	$148.00			$ -	$ -	Average
TREE-plant, longleaf pine	Acre	$187.00			$ -	$ -	Average

Establishment of Vegetation, Pasture Renovation and Cropland Conversion (Grass)

Component	Unit Type	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
COVER CROP	Acre	$70.00			$ -	$ -	Average
RESIDUE AND TILLAGE MANAGEMENT - Tier 1 - 60% Residue	Acre	$20.00			$ -	$ -	Average
RESIDUE AND TILLAGE MANAGEMENT - Tier 2 - 80% Residue	Acre	$40.00			$ -	$ -	Average
RESIDUE AND TILLAGE MANAGEMENT - Tier 3 - Conventional 60% Residue	Acre	$120.00			$ -	$ -	Average
RESIDUE AND TILLAGE MANAGEMENT - Tier 4 - Conventional 80% Residue	Acre	$140.00			$ -	$ -	Average
SOD-BASED ROTATION - Tier 1 - 3 yr/17 mos	Acre	$100.00			$ -	$ -	Average
SOD-BASED ROTATION - Tier 2 - 4 yr/29 mos	Acre	$173.00			$ -	$ -	Average
SOD-BASED ROTATION - tier 3 - 5 yr/41 mos	Acre	$233.00			$ -	$ -	Average
CROPLAND CONVERSION - establish grass, trees or wildlife planting, includes land preparation	Acre	$420.00			$ -	$ -	Average
PASTURE RENOVATION	Acre	$377.00			$ -	$ -	Average
VEGETATION-bag lime, seed and fertlizer	Acre	$976.00			$ -	$ -	Average
VEGETATION-Tree/Shrub Bare Root Seedlings	Each	$4.00			$ -	$ -	Average
VEGETATION-bulk lime, seed and fertilizer	Acre	$767.00			$ -	$ -	Average
VEGETATION-compost blanket	Sq Ft	Cost Share percent of actual amount not to exceed			$ 5,000.00	$ 6,000.00	Actual
VEGETATION-compost sock	Lin Ft	$5.60			$ -	$ -	Actual
VEGETATION-Stripcropping	Acre	$209.00			$ -	$ -	Average

VEGETATION-establish, Christmas tree plantations	Acre	$293.00	$ -	$ -	Average
VEGETATION-Hydroseed	Acre	$2,370.00	$ -	$ -	Average
VEGETATION-establish, native species for riparian areas only	Acre	$750.00	$ -	$ -	Average
VEGETATION-Livestakes (installed)	Each	$3.50	$ -	$ -	Average
VEGETATION-mulch, small grain straw	Acre	$1945.00	$ -	$ -	Average
VEGETATION-seedbed prep	Acre	$ 140.00	$ -	$ -	Average

Grading and Earth Moving Components

Component	Unit Type	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
EARTH FILL- ADJACENT (WITHIN 300 YDS)	CuYd	$ 5.63			$ -	$ -	Average
EARTH FILL ADJACENT, COMPACTED	CuYd	$ 7.12			$ -	$ -	Average
EARTH FILL HAULED	CuYd	$32.86			$ -	$ -	Average
EARTH FILL HAULED, COMPACTED	CuYd	$ 34.89			$ -	$ -	Average
EXCAVATION- Spring development/Stream Pickup	Hr	$ 158.00			$ -	$ -	Average
EXCAVATION-w/spoil removal	CuYd	$ 3.50			$ -	$ -	Average
GRADING-medium, <=6" avg	Acre	$3,209.00			$ -	$ -	Average
GRADING-heavy, 6"-9" avg	Acre	$3,820.00			$ -	$ -	Average
GRADING-extra heavy 9"-12" avg	Acre	$4,430.00			$ -	$ -	Average
GRADING-maximum heavy >12" avg	Acre	$5,040.00			$ -	$ -	Average
GRADING-minimum, <=1/4 acre	Job	$2,630.00			$ -	$ -	Average
HUAP- fine grading, geotextile, stone (does not include excavation)	SqYd	$24.00			$ -	$ -	Average
HUAP-fine grading, concrete (does not include excavation)	SqYd	$77.00			$ -	$ -	Average
HUAP-for tanks and troughs: fine grading (does not include excavation), geotextile, stone, 44.4 SqYd (400 SqFt)	Each	$1,064.00			$ -	$ -	Average
HUAP- for tanks and troughs: fine grading, concrete, 44.4 SqYd (400 SqFt)	Each	$3,410.00			$ -	$ -	Average
LAND SMOOTHING - heavy	Acre	$ 305.25	$ 305.25	$ 381.50	$ -	$ -	Average
LAND SMOOTHING - light	Acre	$ 229.00	$ 229.00	$ 305.25	$ -	$ -	Average
SMOOTH/SHAPE-tractor disk/blade	Acre	$381.50			$ -	$ -	Average

Incentives

Component	Unit Type	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
INCENTIVE - Manure/Litter Transport <= 20 mi.	Ton / CuYd	$4.50 / $3.75			$ 15,000.00	$ 15,000.00	Flat Rate
INCENTIVE - Manure/Litter Transport 20-50 mi.	Ton / CuYd	$8.25 / $7.00			$ 15,000.00	$ 15,000.00	Flat Rate
INCENTIVE - Manure/Litter Transport >= 50 mi.	Ton / CuYd	$16.50 / $14.00			$ 15,000.00	$ 15,000.00	Flat Rate
INCENTIVE - Nutrient Management 3yrs	Acre/Year	$10.00			$ -	$ -	Flat Rate
INCENTIVE - Precision Nutrient Management	Acre/Year	$20.00			$ 15,000.00	$ 15,000.00	Flat Rate
INCENTIVE - Prescribed Grazing	Acre/Year	$33.00			$ 15,000.00	$ 15,000.00	Flat Rate

Stream Protection Management

Component	Unit Type	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
FENCE - SOLAR CHARGER	Each	$375.00			$ -	$ -	Average
FENCE-3-strand perm, electric, incl. Gates	LinFt	$ 4.68			$ -	$ -	Average
FENCE-4+-strand perm, electric, incl. Gates	LinFt	$ 5.10			$ -	$ -	Average
FENCE-perm, 3 strand interior, electric or non-electric, incl. Gates	LinFt	$4.50			$ -	$ -	Average
FENCE-perm, non-electric, incl. Gates	LinFt	$ 5.90			$ -	$ -	Average
FENCE-perm, streamside/floodplain, incl. Gates	LinFt	$2.40			$ -	$ -	Average
FENCE-temporary, portable, electric	LinFt	$0.20			$ -	$ -	Average
LIVESTOCK FEEDING AREA (CONCRETE AND GRADING - NO EXCAVATION (AVERAGE OF EACH PER SQ YD)	SqYd	Cost Share percent of actual amount			$ 82.50	$ 99.00	Actual
LIVESTOCK FEEDING AREA -Pushwall including concrete waste blocks, No. 57 stone and geotextile	Each	Cost Share percent of actual amount			$ 2,760.00	$ 3,312.00	Actual
PUMP-housing, fiberglass/site built	Each	$385.00			$ -	$ -	Average
PUMP-solar powered water	Each	Cost Share percent of actual amount not to exceed			$ 5,000.00	$ 6,000.00	Actual
PUMP-water supply	Each	Cost Share percent of actual amount not to exceed			$ 3,700.00	$ 4,440.00	Actual
Spring Header Casing	Each	$560.00			$ -	$ -	Average
STOCK TRAIL- fine grading, geotextile, stone (does not include excavation)	SqYd	$24.00			$ -	$ -	Average
STOCK TRAIL- fine grading, establish vegetation	SqYd	$5.00			$ -	$ -	Average
STREAM PROTECTION WELL-construction/head protection	LinFt	$20.00			$ -	$ -	Average
STREAM PROTECTION WELL-permit (only where agriculture is not exempt from well permit fees)	Each	Cost Share percent of actual amount not to exceed			$ 500.00	$ 600.00	Actual
STREAM PROTECTION WELL- Steel casing	LinFt	Cost Share percent of actual amount			$ 25.00	$ 30.00	Actual
TANK-temp storage, 1000 gal	Each	$1463.00			$ -	$ -	Average
TANK-temp storage, 1500 gal	Each	$1872.00			$ -	$ -	Average

TANK-temp storage, 2500 gal	Each	$2318.00	$ -	$ -	Average
TANK- watering (fixed) Continuous Flow Concrete Tank	Each	$ 1,863.00	$ -	$ -	Average
TANK- watering (fixed) Non-Continuous Flow Concrete Tank	Each	$ 1,574.00	$ -	$ -	Average
TANK-watering (fixed)/Pressurized 2-Hole Watering Tank (20 - 28 gal.)	Each	$ 1280.75	$ -	$ -	Average
TANK-watering (fixed)/Pressurized 2-Hole Watering Tank (20 - 28 gal.), concrete pad	Each	$ 1,687.50	$ -	$ -	Average
TANK-watering (fixed)/Pressurized 4-Hole Watering Tank (33 gal.)	Each	$ 1367.75	$ -	$ -	Average
TANK-watering (fixed)/Pressurized 4-Hole Watering Tank (33 gal.), concrete pad	Each	$ 1,774.75	$ -	$ -	Average
TANK-watering (fixed)/Pressurized 2-Hole Watering Tank (44 gal.)	Each	$ 1,421.00	$ -	$ -	Average
TANK-watering (fixed)/Pressurized 2-Hole Watering Tank (44 gal.), concrete pad	Each	$ 1,827.75	$ -	$ -	Average
TANK-watering (fixed)/Pressurized 4-Hole Watering Tank (70 gal.)	Each	$ 1,603.00	$ -	$ -	Average
TANK-watering (fixed)/Pressurized 4-Hole Watering Tank (70 gal.), concrete pad	Each	$ 2,009.75	$ -	$ -	Average
TANK-watering (portable) /Pressurized Waterer	Each	Cost Share percent of actual amount not to exceed	$ 500.00	$ 600.00	Actual
VALVE-float, automatic, brass	Each	$60.50	$ -	$ -	Average
VALVE BOX-Plastic	Each	$105.00	$ -	$ -	Average
WATER SUPPLY-Municipal tap	Job	Cost Share percent of actual amount not to exceed	$ 2300.00	$ 2760.00	Actual

Waste Management Measures

Component	Unit Type	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
COMPOSTER BINS ONLY -wood, inside or outside storage structure, area of bin	SqFt	$9.00			$ -	$ -	Average
COMPOSTER-lumber/roof	SqFt	$ 16.00	$ 13.50	$ 13.50	$ -	$ -	Average
DRY STACK-dairy/beef/poultry, block	SqFt	$13.75			$ -	$ -	Average
DRY STACK-dairy/beef/poultry, wood/metal	SqFt	$ 17.75	$ 14.75	$ 14.75	$ -	$ -	Average
DRY STACK-truss arch, fabric roofed	SqFt	$8.50			$ -	$ -	Average
FEED/WASTE STRUCTURE	Each	Cost Share percent of actual amount not to exceed			$ 40,500.00	$ 48,600.00	Actual
FORCED AERATION COMPOST SYSTEM < 720 sq ft w/Grinder and Storage	SqFt	$301.00			$ -	$ -	Average
FORCED AERATION COMPOST SYSTEM 720 sq ft to 1440 sq ft w/Grinder and Storage	SqFt	$235.00			$ -	$ -	Average
FORCED AERATION COMPOST SYSTEM > 1450 sq ft w/ Grinder and Storage	SqFt	$198.00			$ -	$ -	Average
FORCED AERATION COMPOST SYSTEM 600 sq ft to 1450 sq ft w/ Storage	SqFt	$213.00			$ -	$ -	Average
FORCED AERATION COMPOST SYSTEM > 1450 sq ft w/ Storage	SqFt	$183.00			$ -	$ -	Average
FREEZER-installed	Each	Cost Share percent of actual amount not to exceed			$ 4,200.00	$ 5,040.00	Actual

GASIFICATION - 275 lb Corrugated Aluminumacity (delivered & installed)	Each	Cost Share percent of actual amount not to exceed	$ 31,175.25	$ 37,410.30	Actual
GASIFICATION - 400 lb Corrugated Aluminumacity (delivered & installed)	Each	Cost Share percent of actual amount not to exceed	$ 39,374.25	$ 47,429.10	Actual
GASIFICATION - 800 lb Corrugated Aluminumacity (delivered & installed)	Each	Cost Share percent of actual amount not to exceed	$ 49,905.75	$ 56,286.90	Actual
GASIFICATION - 1,200 lb Corrugated Aluminumacity (delivered & installed)	Each	Cost Share percent of actual amount not to exceed	$ 55,020.00	$ 66,024.00	Actual
INCINERATOR <= 250 lb Capacity - includes concrete slab and electrical service	Each	Cost Share percent of actual amount not to exceed	$ 14,700.00	$ 17,640.00	Actual
INCINERATOR 400-500 lb Capacity - includes concrete slab and electrical service	Each	Cost Share percent of actual amount not to exceed	$ 16,800.00	$ 20,160.00	Actual
INCINERATOR 600-700 lb Capacity - includes concrete slab and electrical service	Each	Cost Share percent of actual amount not to exceed	$ 19,125.00	$ 22,950.00	Actual
INCINERATOR 800 - 1000 lb Capacity- includes concrete slab and electrical service	Each	Cost Share percent of actual amount not to exceed	$ 21,300.00	$ 25,560.00	Actual
INCINERATOR >1,000 lb Capacity - includes concrete slab and electrical service	Each	Cost Share percent of actual amount not to exceed	$ 26,175.00	$ 31,410.00	Actual
INCINERATOR-Roof w/ storm collar	SqFt	$20.50	$ -	$ -	Actual
Lagoon Biosolids Removal	Gallon	$0.03	$ 25,000.00	$ 25,000.00	Flat Rate
ROTARY DRUMS-2900 gal, w/drive motor	Each	Cost Share percent of actual amount not to exceed	$ 20,000.00	$ 24,000.00	Actual
ROTARY DRUMS-2900 gal, w/forced aeration system	Each	Cost Share percent of actual amount not to exceed	$ 25,000.00	$ 30,000.00	Actual
SOLIDS SEPARATION FROM TANK-BASED AQUACULTURE	Each	Cost Share percent of actual amount not to exceed	$ 37,500.00	$ 45,000.00	Actual
WASTE APPLICATION-Poultry litter/Manure spreader	Each	Cost Share percent of actual amount not to exceed	$ 18,000.00	$ 21,600.00	Actual
WASTE APPLICATION - system	Job	Cost Share percent of actual amount not to exceed	$ 35,000.00	$ 42,000.00	Actual
WASTE IMPOUNDMENT - closure	Job	Cost Share percent of actual amount not to exceed	$ 75,000.00	$ 90,000.00	Actual

Water Control Structures

Component	Unit Type	WESTERN REGION Unit Cost	CENTRAL REGION Unit Cost	EASTERN REGION Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
ANTISEEP COLL-alum, 12"-18" pipe	Each	$650.00			$ -	$ -	Average
ANTISEEP COLL-alum, 24" pipe	Each	$1010.00			$ -	$ -	Average
ANTISEEP COLL-alum, 30" pipe	Each	$1250.00			$ -	$ -	Average
ANTISEEP COLL-alum, 36" pipe	Each	$1490.00			$ -	$ -	Average
ANTISEEP COLL-alum, 42" pipe	Each	$1730.00			$ -	$ -	Average
ANTISEEP COLL-alum, 48" pipe	Each	$1970.00			$ -	$ -	Average
ANTISEEP COLL-alum, 54" pipe	Each	$2210.00			$ -	$ -	Average
ANTISEEP COLL-alum, 60" pipe	Each	$2450.00			$ -	$ -	Average
ANTISEEP COLL-alum, 72" pipe	Each	$2930.00			$ -	$ -	Average
GATE-shear, alum, 10'x3/4" lift rod	Each	$230.00			$ -	$ -	Average
GATE-shear, Coated Corrugated Steel w/ frame/rod 6"	Each	$615.00			$ -	$ -	Average
GATE-shear, Coated Corrugated Steel w/ frame/rod 8"	Each	$650.00			$ -	$ -	Average
GATE-shear, Coated Corrugated Steel w/ frame/rod 10"	Each	$765.00			$ -	$ -	Average

GATE-shear, Coated Corrugated Steel w/ frame/rod 12"	Each	$1,335.00	$ -	$ -	Average
GATE-shear, Polyvinyl Chloride pipe	Each	$535.00	$ -	$ -	Average
GATE-slide, Polyvinyl Chloride pipe 8"	Each	$915.00	$ -	$ -	Average
GATE-slide, Polyvinyl Chloride pipe 12"	Each	$1,885.00	$ -	$ -	Average
HEADWALL-aluminum	SqFt	$110.00	$ -	$ -	Average
HEADWALL-concrete - includes steel reinforcement	CuYd	$630.00	$ -	$ -	Average
HEADWALL-sand cement bag >=60 lb	Bag	$8.50	$ -	$ -	Average
RISER-Corrugated Aluminum 15"-18"/16 ga	LinFt	$555.00	$ -	$ -	Average
RISER-Corrugated Aluminum 21"-24"/16 ga	LinFt	$575.00	$ -	$ -	Average
RISER-Corrugated Aluminum 30"-36"/14 ga	LinFt	$600.00	$ -	$ -	Average
RISER-Corrugated Aluminum perf 15"-18"/16 ga	LinFt	$620.00	$ -	$ -	Average
RISER-Corrugated Aluminum perf 21"-24"/16 ga	LinFt	$645.00	$ -	$ -	Average
RISER-Corrugated Aluminum perf 30"-36"/14 ga	LinFt	$705.00	$ -	$ -	Average
RISER-Coated Corrugated Steel 8"-12"/16 ga	LinFt	$510.00	$ -	$ -	Average
RISER-Coated Corrugated Steel 15"-21"/16 ga	LinFt	$605.00	$ -	$ -	Average
RISER-Coated Corrugated Steel 24"-30"/16 ga	LinFt	$655.00	$ -	$ -	Average
RISER-Coated Corrugated Steel 36"-48"/14 ga	LinFt	$720.00	$ -	$ -	Average
RISER-Coated Corrugated Steel 54"/12 ga	LinFt	$765.00	$ -	$ -	Average
RISER-Coated Corrugated Steel perf 15"-21"/16 ga	LinFt	$630.00	$ -	$ -	Average
RISER-Coated Corrugated Steel perf 24"-30"/16 ga	LinFt	$675.00	$ -	$ -	Average
RISER-Coated Corrugated Steel perf 36"-48"/14 ga	LinFt	$765.00	$ -	$ -	Average
RISER-Coated Corrugated Steel perf 54"/12 ga	LinFt	$810.00	$ -	$ -	Average
RISER-fb .175in plate 102in (5' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each	$18,972.00	$ -	$ -	Average
RISER-fb .175in plate 108in (5' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each	$21,282.00	$ -	$ -	Average
RISER-fb .175in plate 114in (5' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each	$23,742.00	$ -	$ -	Average
RISER-fb .175in plate 120in (5' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each	$26,351.00	$ -	$ -	Average
RISER-fb 18" x 5' (4' water ht) Aluminum Flashboard Riser w/ 2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each	$2,330.00	$ -	$ -	Average

RISER-fb 24" x 5' (4' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each	$2,550.00	$ -	$ -	Average
RISER-fb 30" x 5' (4' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each	$2,915.00	$ -	$ -	Average
RISER-fb 36" x 5' (4' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each	$3,443.00	$ -	$ -	Average
RISER-fb 42" x 5' (4' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each	$4,095.00	$ -	$ -	Average
RISER-fb 48" x 5' (4' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each	$4,910.00	$ -	$ -	Average
RISER-fb 54" x 5' (4' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each	$5,875.00	$ -	$ -	Average
RISER-fb 60" x 5' (4' water ht) Aluminum Flashboard Riser w/ 2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each	$6,988.00	$ -	$ -	Average
RISER-fb 66" x 5' (4' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each	$8,251.00	$ -	$ -	Average
RISER-fb 72" x 6' (5' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each	$9,664.00	$ -	$ -	Average
RISER-fb 78in/12 ga (5' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each	$11,226.00	$ -	$ -	Average
RISER-fb 84in/10 ga (5' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each	$12,938.00	$ -	$ -	Average
RISER-fb 90in/10 ga (5' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each	$14,800.00	$ -	$ -	Average
RISER-fb 96in/10 ga (5' water ht) Aluminum Flashboard Riser w/2' Flanged Stub, Includes: Pressure Treated Pine Tongue & Groove Boards & Trash Guard	Each	$16,811.00	$ -	$ -	Average
WATER CONTROL STRUCTURE - Automated Valve - locally programmable	Each	$6,485.00	$ -	$ -	Average
WATER CONTROL STRUCTURE in-line, installed 6"x4'	Each	$1135.00	$ -	$ -	Average
WATER CONTROL STRUCTURE in-line, installed 6"x5'	Each	$1261.75	$ -	$ -	Average
WATER CONTROL STRUCTURE in-line, installed 6"x6'	Each	$1443.25	$ -	$ -	Average

WATER CONTROL STRUCTURE in-line, installed 8"x4'	Each	$1140.50	$ -	$ -	Average
WATER CONTROL STRUCTURE in-line, installed 8"x5'	Each	$1,290.00	$ -	$ -	Average
WATER CONTROL STRUCTURE in-line, installed 8"x6'	Each	$1,518.25	$ -	$ -	Average
WATER CONTROL STRUCTURE in-line, installed WATERGATE 8 in	Each	$1479.75	$ -	$ -	Average
WATER CONTROL STRUCTURE in-line, installed WATERGATE 10 in	Each	$923.50	$ -	$ -	Average

For actual cost items, the payment is based on 75 or 90 percent of actual cost, not to exceed the established cost share cap. The cost share cap listed is the maximum amount of cost share reimbursement allowed for that component/BMP.

***Local Soil & Water Conservation Districts can set more restrictive costs or caps in their annual strategic before any current year contracts are approved.**

ATTACHMENT 11D

DRAFT Allocation of 2023 ACSP Financial Assistance Funds

	REGULAR ACSP (CS)		Impaired/Impacted Earmark (II)		
DISTRICT	REQUESTED	FY2023 CS funds: August 2022	REQUESTED	FY2023 II funds: August 2022	TOTAL FY2023 ALLOCATION
ALAMANCE	$ 150,000	$ 57,669	$ -	$ -	$ 57,669
ALEXANDER	$ 200,000	$ 61,208	$ 100,000	$ 10,576	$ 71,784
ALLEGHANY	$ 800,000	$ 56,370	$ 20,000	$ 9,740	$ 66,110
ANSON	$ 500,000	$ 54,201	$ 500,000	$ 9,365	$ 63,566
ASHE	$ 875,000	$ 57,990	$ -	$ -	$ 57,990
AVERY	$ 316,000	$ 47,569	$ -	$ -	$ 47,569
BEAUFORT	$ 236,200	$ 46,645	$ -	$ -	$ 46,645
BERTIE	$ 100,000	$ 36,724	$ -	$ -	$ 36,724
BLADEN	$ 80,000	$ 52,061	$ -	$ -	$ 52,061
BRUNSWICK	$ 50,000	$ 34,110	$ -	$ -	$ 34,110
BUNCOMBE	$ 317,000	$ 55,474	$ 64,500	$ 9,585	$ 65,059
BURKE	$ 100,000	$ 49,830	$ -	$ -	$ 49,830
CABARRUS	$ 150,000	$ 53,746	$ 20,000	$ 9,287	$ 63,033
CALDWELL	$ 100,000	$ 52,012	$ 30,000	$ 8,987	$ 60,999
CAMDEN	$ 47,000	$ 30,295	$ -	$ -	$ 30,295
CARTERET	$ 10,000	$ 10,000	$ -	$ -	$ 10,000
CASWELL	$ 100,000	$ 56,541	$ -	$ -	$ 56,541
CATAWBA	$ 90,000	$ 51,130	$ -	$ -	$ 51,130
CHATHAM	$ 199,750	$ 61,932	$ 40,000	$ 10,701	$ 72,633
CHEROKEE	$ 125,000	$ 42,278	$ 30,000	$ 7,305	$ 49,583
CHOWAN	$ 80,000	$ 29,989	$ 20,000	$ 5,182	$ 35,171
CLAY	$ 250,000	$ 47,218	$ 150,000	$ 8,159	$ 55,377
CLEVELAND	$ 130,000	$ 59,591	$ 10,000	$ 10,000	$ 69,591
COLUMBUS	$ 127,500	$ 46,210	$ -	$ -	$ 46,210
CRAVEN	$ 100,000	$ 29,527	$ -	$ -	$ 29,527
CUMBERLAND	$ 100,000	$ 33,297	$ 75,000	$ 5,753	$ 39,050
CURRITUCK	$ 35,000	$ 26,557	$ -	$ -	$ 26,557
DARE	$ 20,000	$ 20,000	$ -	$ -	$ 20,000
DAVIDSON	$ 86,000	$ 64,241	$ -	$ -	$ 64,241
DAVIE	$ 67,000	$ 65,292	$ -	$ -	$ 65,292
DUPLIN	$ 200,000	$ 83,203	$ 150,000	$ 14,381	$ 97,584
DURHAM	$ 57,000	$ 45,657	$ -	$ -	$ 45,657
EDGECOMBE	$ 189,906	$ 44,722	$ -	$ -	$ 44,722
FORSYTH	$ 75,000	$ 35,683	$ 40,000	$ 6,166	$ 41,849
FRANKLIN	$ 75,000	$ 59,431	$ 10,700	$ 10,269	$ 69,700
GASTON	$ 79,334	$ 41,593	$ 29,067	$ 7,187	$ 48,780
GATES	$ 48,500	$ 28,528	$ -	$ -	$ 28,528

ATTACHMENT 11D

	REGULAR ACSP (CS)		Impaired/Impacted Earmark (II)		
DISTRICT	REQUESTED	FY2023 CS funds: August 2022	REQUESTED	FY2023 II funds: August 2022	TOTAL FY2023 ALLOCATION
GRAHAM	$ 21,000	$ 21,000	$ -	$ -	$ 21,000
GRANVILLE	$ 80,000	$ 56,764	$ 10,000	$ 9,808	$ 66,572
GREENE	$ 75,600	$ 43,581	$ 3,000	$ 3,000	$ 46,581
GUILFORD	$ 275,000	$ 47,894	$ 25,000	$ 8,276	$ 56,170
HALIFAX	$ 110,000	$ 54,664	$ 15,000	$ 9,445	$ 64,109
HARNETT	$ 60,000	$ 47,489	$ 11,000	$ 8,206	$ 55,695
HAYWOOD	$ 195,000	$ 50,607	$ 75,000	$ 8,744	$ 59,351
HENDERSON	$ 150,000	$ 55,011	$ 50,000	$ 9,505	$ 64,516
HERTFORD	$ 90,000	$ 31,935	$ 25,000	$ 5,518	$ 37,453
HOKE	$ 170,000	$ 29,843	$ 15,000	$ 5,156	$ 34,999
HYDE	$ 100,000	$ 38,782	$ 50,000	$ 6,701	$ 45,483
IREDELL	$ 110,000	$ 56,617	$ 20,000	$ 9,783	$ 66,400
JACKSON	$ 50,000	$ 42,736	$ -	$ -	$ 42,736
JOHNSTON	$ 452,362	$ 66,643	$ 6,382	$ 6,382	$ 73,025
JONES	$ 200,000	$ 50,028	$ 15,000	$ 8,644	$ 58,672
LEE	$ 45,000	$ 44,939	$ -	$ -	$ 44,939
LENOIR	$ 150,000	$ 45,908	$ 30,000	$ 7,932	$ 53,840
LINCOLN	$ 200,000	$ 61,148	$ 75,000	$ 10,566	$ 71,714
MACON	$ 375,000	$ 40,834	$ 35,000	$ 7,056	$ 47,890
MADISON	$ 100,000	$ 48,822	$ 10,000	$ 8,436	$ 57,258
MARTIN	$ 125,000	$ 36,147	$ -	$ -	$ 36,147
MCDOWELL	$ 50,000	$ 39,707	$ -	$ -	$ 39,707
MECKLENBURG	$ 35,000	$ 20,000	$ -	$ -	$ 20,000
MITCHELL	$ 225,000	$ 61,374	$ 50,000	$ 10,605	$ 71,979
MONTGOMERY	$ 40,000	$ 39,948	$ -	$ -	$ 39,948
MOORE	$ 181,750	$ 45,564	$ -	$ -	$ 45,564
NASH	$ 100,000	$ 43,293	$ 50,000	$ 7,480	$ 50,773
NEW HANOVER	$ 10,000	$ 10,000	$ -	$ -	$ 10,000
NORTHAMPTON	$ 85,000	$ 39,323	$ -	$ -	$ 39,323
ONSLOW	$ 50,000	$ 45,164	$ -	$ -	$ 45,164
ORANGE	$ 231,565	$ 64,974	$ 68,500	$ 11,227	$ 76,201
PAMLICO	$ 250,000	$ 40,532	$ -	$ -	$ 40,532
PASQUOTANK	$ 60,500	$ 26,377	$ 10,000	$ 4,558	$ 30,935
PENDER	$ 80,000	$ 36,166	$ -	$ -	$ 36,166
PERQUIMANS	$ 80,000	$ 32,061	$ 20,000	$ 5,540	$ 37,601
PERSON	$ 200,000	$ 52,348	$ 45,000	$ 9,045	$ 61,393
PITT	$ 256,500	$ 55,105	$ 43,500	$ 9,521	$ 64,626
POLK	$ 84,500	$ 45,482	$ -	$ -	$ 45,482
RANDOLPH	$ 150,000	$ 61,449	$ -	$ -	$ 61,449
RICHMOND	$ 100,000	$ 43,303	$ -	$ -	$ 43,303

ATTACHMENT 11D

	REGULAR ACSP (CS)		Impaired/Impacted Earmark (II)		
DISTRICT	REQUESTED	FY2023 CS funds: August 2022	REQUESTED	FY2023 II funds: August 2022	TOTAL FY2023 ALLOCATION
ROBESON	$ 395,000	$ 52,368	$ 298,400	$ 9,049	$ 61,417
ROCKINGHAM	$ 150,000	$ 58,020	$ 50,000	$ 10,025	$ 68,045
ROWAN	$ 120,000	$ 63,831	$ -	$ -	$ 63,831
RUTHERFORD	$ 75,000	$ 52,911	$ 10,000	$ 9,142	$ 62,053
SAMPSON	$ 250,000	$ 75,770	$ 100,000	$ 13,092	$ 88,862
SCOTLAND	$ 80,000	$ 37,049	$ -	$ -	$ 37,049
STANLY	$ 70,000	$ 61,205	$ 20,000	$ 10,575	$ 71,780
STOKES	$ 188,000	$ 54,879	$ 20,000	$ 9,482	$ 64,361
SURRY	$ 250,000	$ 73,196	$ 50,000	$ 12,647	$ 85,843
SWAIN	$ 40,000	$ 32,883	$ 7,500	$ 5,682	$ 38,565
TRANSYLVANIA	$ 50,000	$ 49,930	$ -	$ -	$ 49,930
TYRRELL	$ 150,000	$ 35,016	$ -	$ -	$ 35,016
UNION	$ 513,250	$ 66,788	$ 80,000	$ 11,540	$ 78,328
VANCE	$ 35,000	$ 34,944	$ -	$ -	$ 34,944
WAKE	$ 213,905	$ 55,855	$ 94,490	$ 9,651	$ 65,506
WARREN	$ 98,400	$ 59,327	$ 21,000	$ 10,251	$ 69,578
WASHINGTON	$ 98,000	$ 35,244	$ -	$ -	$ 35,244
WATAUGA	$ 150,000	$ 57,518	$ 10,000	$ 9,938	$ 67,456
WAYNE	$ 183,782	$ 62,626	$ 30,000	$ 10,821	$ 73,447
WILKES	$ 527,321	$ 53,653	$ 189,647	$ 9,270	$ 62,923
WILSON	$ 150,000	$ 45,690	$ 5,000	$ 5,000	$ 50,690
YADKIN	$ 425,000	$ 65,839	$ 95,000	$ 11,376	$ 77,215
YANCEY	$ 230,650	$ 50,246	$ 80,000	$ 8,682	$ 58,928
TOTALS	**$ 16,113,275**	**$ 4,736,873**	**$ 3,207,686**	**$500,000**	**$ 5,236,872**

SOURCE	AMOUNT
FY2023 Appropriation	**$ 4,016,998**
Available funds from cancelations, releases and unencumbered Regular Cost Share, Impaired & Impacted, CREP, and TVA funds	**$ 1,515,724**
TOTAL AVAILABLE FUNDS	**$ 5,532,722**
5% Contingency Reserve	**$ 200,850**
Total Allocated FY2023	**$ 5,331,872**

The proposed allocation transfers $500,000 of regular CS funds to Impaired/Impacted Streams Initiative (II) AND $95,000 to CREP (CE). CE funds will be allocated to districts as CREP contracts are received.

ATTACHMENT 12

County	FY2022-2024 Technical Assistance Annual Allocation ($20,000 min; $30,000 max): Approved 2/24/2021	Total FY2023 Technical Assistance Allocation
ALAMANCE	$ 23,903	$ 23,903
ALEXANDER	$ 25,479	$ 25,479
ALLEGHANY	$ 25,214	$ 25,214
ANSON	$ 26,308	$ 26,308
ASHE	$ 27,244	$ 27,244
AVERY	$ 24,576	$ 24,576
BEAUFORT	$ 25,925	$ 25,925
BERTIE	$ 25,605	$ 25,605
BLADEN	$ 26,573	$ 26,573
BRUNSWICK	$ 22,391	$ 22,391
BUNCOMBE	$ 26,716	$ 26,716
BURKE	$ 25,933	$ 25,933
CABARRUS	$ 23,185	$ 23,185
CALDWELL	$ 24,387	$ 24,387
CAMDEN	$ 21,525	$ 21,525
CARTERET	$ 20,937	$ 20,937
CASWELL	$ 25,653	$ 25,653
CATAWBA	$ 23,319	$ 23,319
CHATHAM	$ 26,181	$ 26,181
CHEROKEE	$ 26,321	$ 26,321
CHOWAN	$ 22,309	$ 22,309
CLAY	$ 23,529	$ 23,529
CLEVELAND	$ 30,000	$ 30,000
COLUMBUS	$ 24,100	$ 24,100
CRAVEN	$ 21,710	$ 21,710
CUMBERLAND	$ 22,296	$ 22,296
CURRITUCK	$ 20,984	$ 20,984
DARE	$ 20,912	$ 20,912
DAVIDSON	$ 24,002	$ 24,002
DAVIE	$ 22,822	$ 22,822
DUPLIN	$ 30,000	$ 30,000
DURHAM	$ 29,788	$ 29,788
EDGECOMBE	$ 23,769	$ 23,769
FORSYTH	$ 22,648	$ 22,648
FRANKLIN	$ 24,203	$ 24,203
GASTON	$ 23,245	$ 23,245
GATES	$ 22,703	$ 22,703
GRAHAM	$ 21,690	$ 21,690
GRANVILLE	$ 22,435	$ 22,435
GREENE	$ 23,811	$ 23,811
GUILFORD	$ 24,369	$ 24,369
HALIFAX	$ 30,000	$ 30,000
HARNETT	$ 24,642	$ 24,642

ATTACHMENT 12

County	FY2022-2024 Technical Assistance Annual Allocation ($20,000 min; $30,000 max): Approved 2/24/2021	Total FY2023 Technical Assistance Allocation
HAYWOOD	$ 26,382	$ 26,382
HENDERSON	$ 28,287	$ 28,287
HERTFORD	$ 22,885	$ 22,885
HOKE*	$ -	$ -
HYDE	$ 23,212	$ 23,212
IREDELL	$ 24,708	$ 24,708
JACKSON	$ 22,582	$ 22,582
JOHNSTON	$ 23,944	$ 23,944
JONES	$ 26,143	$ 26,143
LEE	$ 22,584	$ 22,584
LENOIR	$ 24,917	$ 24,917
LINCOLN	$ 26,940	$ 26,940
MACON	$ 25,359	$ 25,359
MADISON	$ 23,216	$ 23,216
MARTIN	$ 23,394	$ 23,394
MCDOWELL	$ 23,177	$ 23,177
MECKLENBURG	$ 21,469	$ 21,469
MITCHELL	$ 25,612	$ 25,612
MONTGOMERY	$ 23,840	$ 23,840
MOORE	$ 30,000	$ 30,000
NASH	$ 23,190	$ 23,190
NEW HANOVER	$ 20,126	$ 20,126
NORTHAMPTON	$ 25,577	$ 25,577
ONSLOW	$ 24,492	$ 24,492
ORANGE	$ 25,051	$ 25,051
PAMLICO	$ 24,190	$ 24,190
PASQUOTANK	$ 21,620	$ 21,620
PENDER	$ 23,411	$ 23,411
PERQUIMANS	$ 23,021	$ 23,021
PERSON	$ 22,316	$ 22,316
PITT	$ 23,848	$ 23,848
POLK	$ 25,605	$ 25,605
RANDOLPH	$ 30,000	$ 30,000
RICHMOND	$ 24,519	$ 24,519
ROBESON	$ 30,000	$ 30,000
ROCKINGHAM	$ 25,587	$ 25,587
ROWAN	$ 23,249	$ 23,249
RUTHERFORD	$ 26,550	$ 26,550
SAMPSON	$ 30,000	$ 30,000
SCOTLAND	$ 25,038	$ 25,038
STANLY	$ 26,743	$ 26,743
STOKES	$ 25,391	$ 25,391
SURRY	$ 30,000	$ 30,000

ATTACHMENT 12

County	FY2022-2024 Technical Assistance Annual Allocation ($20,000 min; $30,000 max): Approved 2/24/2021	Total FY2023 Technical Assistance Allocation
SWAIN	$ 21,779	$ 21,779
TRANSYLVANIA	$ 23,170	$ 23,170
TYRRELL	$ 26,190	$ 26,190
UNION	$ 25,017	$ 25,017
VANCE	$ 21,275	$ 21,275
WAKE	$ 24,488	$ 24,488
WARREN	$ 23,659	$ 23,659
WASHINGTON	$ 23,181	$ 23,181
WATAUGA	$ 26,888	$ 26,888
WAYNE	$ 26,816	$ 26,816
WILKES	$ 30,000	$ 30,000
WILSON	$ 23,154	$ 23,154
YADKIN	$ 28,710	$ 28,710
YANCEY	$ 23,902	$ 23,902

ATTACHMENT 13

Agricultural Water Resources Assistance Program

Soil and Water Conservation Commission Meeting

August 16, 2022

AgWRAP
Agricultural Water
Resources Assistance Program

ATTACHMENT 13

AgWRAP SWCC Presentation Packet

I. AgWRAP Presentation

II. AgWRAP Detailed Implementation Plan

III. AgWRAP Average Cost List

IV. AgWRAP District Financial Assistance Allocations

AgWRAP
Agricultural Water
Resources Assistance Program

13A. Detailed Implementation Plan

Available Funds: $1,210,349

- Allocation strategy:
  - 85% of available funds for District Financial Assistance Allocations
    - Minimum District Allocation of $11,000
  - 15% of available funds for the Regional Application Process
    - This will support 6 Regional Application Projects

Take action to approve the AgWRAP Detailed Implementation Plan.

AgWRAP Agricultural Water Resources Assistance Program

13B. Average Cost List

- Water Supply Ponds: $30,000 (75%) & $36,000 (90%)
- Pond Repairs/Retrofits: $30,000 (75%) & $36,000 (90%)
- Conservation Irrigation Conversions: $30,000 (75%) & $36,000 (90%)
  - Correction on 90% cost for design to $6,000
- Pond Sediment Removals: $7,000 (75%) & $8,400 (90%)
- Addition of 2500 gallon water storage tank
- Slight increase in tank cost

Take action to approve the AgWRAP Average Cost List.

13C. District Financial Assistance Allocations

Total Requested	$5,336,769
Amount Available	$1,210,349
Difference from last years allocation	+$145,287
District Allocation (85%)	$1,028,797
Regional Application (15%)	$181,552

- Allocated to 92 districts
  - 8 did not request AgWRAP funds
- 69 districts received the minimum $11,000
  - 13 districts requested less than the minimum
  - 10 districts received more than the minimum

Take action to approve the financial assistance allocations for districts.

Fiscal Year 2023 Detailed Implementation Plan August 16, 2022

Background

The North Carolina Agricultural Water Resources Assistance Program was authorized through Session Law 2011-145, and became effective on July 1, 2011. This program, herein referred to as AgWRAP, was established to assist farmers and landowners in doing any one or more of the following:

- Identify opportunities to increase water use efficiency, availability and storage;
- Implement best management practices (BMPs) to conserve and protect water resources;
- Increase water use efficiency;
- Increase water storage and availability for agricultural purposes.

AgWRAP is administered by the North Carolina Soil and Water Conservation Commission and implemented through local soil and water conservation districts. The commission meets with stakeholders to gather input on AgWRAP's development and administration through the AgWRAP Review Committee. AgWRAP currently receives $977,500 in recurring state appropriations: $827,500 is available for BMP allocation, while remaining funding is used to support two division engineering positions.

Fiscal Year 2023 Annual Goals

(1) Conduct a competitive regional allocation process for selected AgWRAP BMPs.
   a. Fund projects in each of the division's regions: western, central and eastern.

(2) Allocate funds to soil and water conservation districts for all AgWRAP BMPs.
   a. Award funds to all districts requesting an allocation.
   b. Allocate funds to districts from all geographic areas of the state.

(3) Conduct training for districts.
   a. Continue to train districts on the program.
   b. Provide technical training for the required skills to plan and implement approved AgWRAP BMPs.
   c. Maintain the AgWRAP website with all relevant information.

Fiscal Year 2023 Allocation Strategy

Due to the high cost of some of the program's eligible best management practices, and the limited funding for the program, the Commission will award two allocations for AgWRAP.

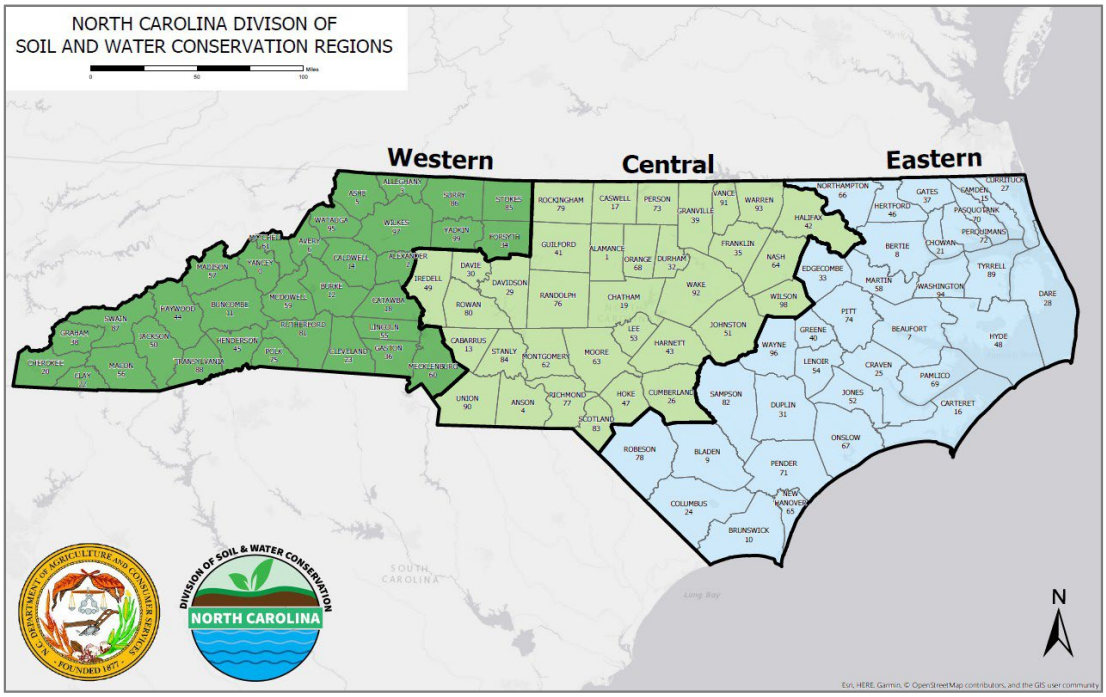
1. **Competitive regional application process for selected AgWRAP conservation practices: 15% of available BMP funding.**

   The Commission will allocate FY2023 funding through a competitive regional application process for following program practices:

   - Agricultural water supply/reuse pond
   - Agricultural pond repair/retrofit
   - Agricultural water storage and/or collection system
   - Conservation irrigation conversion

The regions, as depicted in Figure 1, will be eligible to receive 1/3 of the amount of funds in the regional pool. Applications will be approved using the same ranking criteria for each region; there will be a minimum score for recommendation for funding. No more than three applications per district will move on to the next phase of consideration after the preliminary ranking, unless all applications have been ranked and there remains an eligible application(s). Should a region nothave sufficient applications to fund, the commission will allocate the remaining funds by approving applications in other regions, funding applications by highest score. Should the regional pool not have enough highly ranked applications to encumber available funding, the remaining funds (AP) will be allocated through district allocations (AG). This re-allocation process will follow the allocation process described onpage 4 after February 1st.

Figure 1: Regions for AgWRAP allocations



2. District allocations: 85% of available BMP funding.

a. Allocations will be made to all districts requesting funds in their FY2023 Strategy Plan.
b. Allocation parameters are described in 02NCAC 59D .0105 Agricultural Water Resources Assistance Program Financial Assistance Allocation Guidelines and Procedures.

Table 1: Allocation Parameters

Parameter	Percent
Relative rank of the number of farms (total operations) that are in the respective district as reported in the Census of Agriculture.	20%
Relative rank of the total acres of land in farms that are in the respective district as reported in the Census of Agriculture.	20%
Relative rank of the Market Value of Sales that are in the respective district as reported in the Census of Agriculture.	15%
Relative rank of the amount of agricultural water use in the respective district as reported in the North Carolina Agricultural Water Use Survey. Data from the most recent three surveys will be averaged to determine each district's rank.	25%
Relative rank of population density as reported by the state demographer.	20%

Conservation plan requirement

All approved AgWRAP applications must have a completed conservation plan prior to contract approval or the district requesting design assistance from division engineering staff. The commission is requiring this plan, which is the cooperator's record of decisions, to help districts evaluate water supply resource concerns including inadequate water for livestock, inefficient water use for irrigation and/or inefficient moisture management. Conservation plans will ensure that alternative practices are considered and that the recommended practices address the identified resource concerns to maintain AgWRAP BMPs through their contract life.

Program Guidelines

AgWRAP will be implemented using rule 02 NCAC 59D.

The agricultural water definition, from Protecting Agriculture Water Resources in North Carolina Strategic Plan (February 2011) will be used to determine eligibility for AgWRAP.

> *Agricultural water is considered to be any water on farms, from surface or subsurface sources, that is used in the production, maintenance, protection or on-farm preparation or treatment of agriculture commodities or products as necessary to grow and/or prepare them for on-farm use or transfer into any form of trade as is normally done with agricultural plant or animal commerce.* This expressly includes any on-farm cleaning or processing to make the agricultural product ready for sale or other transfer to any consumer in a usable form. It does not include water used in the manufacture or extended processing of plants or animals or their products when the processor is not the grower or producer and/or is beyond the first handler of the farm product.

All eligible operations must have been in existence for more than one year, and expansions to existing operations are eligible for the program.

The percent cost share for all BMPs is 75%. Limited resource and beginning farmers and farmers enrolled in Enhanced Voluntary Agriculture Districts are eligible to receive 90% cost share. The contract maintenance period of the majority of practices is 10 years.

Soil and water conservation districts can adopt additional guidelines for the program as they implement AgWRAP locally.

District Reallocation Process
Districts may voluntarily return AgWRAP allocations at any time during the fiscal year. These returns along with any unallocated AP funds, will be allocated to the district allocations (AG). On February 1 of each fiscal year, districts may request additional funding for specific projects through an online application process. Initial request will close at the end of February; first allocations will be made in early March taking effort to award one request from each district when possible on a first come, first serve basis. After the initial allocation, funding requests will be accepted on a rolling basis and funds will be allocated on a first come, first served basis until the beginning of June.

BEST MANAGEMENT PRACTICES ELIGIBLE FOR COST SHARE PAYMENTS

(1) The best management practices eligible for cost sharing include the practices listed in Table 2 and any approved District BMPs.

- District BMPs shall be reviewed by the Division for technical merit in achieving the goals of this program. Upon approval by the Division, the District BMPs will be eligible to receive cost share funding as described in 02 NCAC 59D .0106.

(2) The minimum life expectancy of the BMPs shall be that listed in Table 2. Practices designated by a District shall meet the life expectancy requirement established by the Division for that District BMP.

(3) The list of BMPs eligible for cost sharing may be revised by the Soil and Water Conservation Commission as deemed appropriate in order to meet program purpose and goals. Additional practices may be adopted and introduced during the program year.

Table 2. Best management practices eligible for cost sharing, the minimum life expectancy of each practice and the practice type.

PRACTICE	MINIMUM LIFE EXPECTANCY (years)	PRACTICE TYPE
Agricultural water supply/reuse pond	10	DESIGN
Agricultural pond repair/retrofit	10	DESIGN
Agricultural pond sediment removal	1	DESIGN
Agricultural water storage and/or collection system	10	DESIGN
Baseflow interceptor (streamside pickup)	10	DESIGN
Conservation irrigation conversion	10	DESIGN
Water supply well	10	DESIGN
Livestock water storage	10	DESIGN

(1) **Agricultural water supply/reuse pond**: Construct agricultural ponds for water supply for irrigation or livestock watering. Benefits may include water supply, erosion control, flood control, and sediment and nutrient reductions from farm fields.

(2) **Agricultural pond repair/retrofit**: Repair or retrofit of existing agricultural pond systems. Benefits may include water supply, erosion control, flood control, and sediment and nutrient reductions from farm fields.

(3) **Agricultural pond sediment removal:** Remove sediment from existing agricultural ponds to increase water storage capacity. Benefits may include water supply, erosion control, flood control, and sediment and nutrient reductions from farm fields. Cooperators are ineligible to reapply for assistance for this practice for a period of 10 years; unless the sedimentation is occurring due to no fault of the cooperator.

(4) **Agricultural water storage and/or collection system**: Construct an agricultural water management and/orcollection system for water reuse or irrigation for agricultural operations. These systems may include any of the following: water storage tanks, pumps, water control structures, and/or water conveyances. Benefits may include reduced demand on the water supply by reuse and decrease withdrawal from existing water supplies.

(5) **Baseflow interceptor (streamside pickup)**: Improve springs and seeps alongside a stream, near the banks, but not in the channel by excavating, cleaning, capping to collect and/or store water for agricultural use. Benefits may include water supply, erosion control and flood control.

(6) **Conservation irrigation conversion**: Modify an existing irrigation system to increasethe efficiency and uniformity of irrigation water application. Benefits include increased water efficiency and water availability, erosion control, and produce safety.

(7) **Water supply well**: Construct a drilled, driven or dug well to supply water from an underground source for irrigation, livestock and poultry, aquaculture, or on-farm processing.

(8) **Livestock water storage:** Construct a system of water storage for the purpose of watering livestock. These systems may include any of the following: construction of impoundments, water storage tanks, pumps and/or water conveyances. This practice can accompany a water collection/supply BMP to allow for additional pumping and storage of water. Benefits may include increased water storage.

ATTACHMENT 13B

Components for the Agricultural Water Resources Assistance Program (AgWRAP)

Component	Unit Type	Unit Cost	Maximum Cost Share 75 Percent	Maximum Cost Share 90 Percent	Cost Type
AGRICULTURAL WATER STORAGE AND/OR COLLECTION SYSTEM	Job	Cost Share percent of actual amount not to exceed	$ 15,000.00	$ 18,000.00	Actual
AGRICULTURAL WATER SUPPLY/REUSE POND	Job	Cost Share percent of actual amount not to exceed	$ 30,000.00	$ 36,000.00	Actual
AGRICULTURAL WATER SUPPLY/REUSE POND - Engineering for embankment pond, low hazard	Job	Cost Share percent of actual amount not to exceed	$ 7,500.00	$ 9,000.00	Actual
AGRICULTURAL WATER SUPPLY/REUSE POND - Engineering for embankment pond, intermediate or high hazard	Job	Cost Share percent of actual amount not to exceed	$ 10,000.00	$ 12,000.00	Actual
AGRICULTURAL POND REPAIR/RETROFIT	Job	Cost Share percent of actual amount not to exceed	$ 30,000.00	$ 36,000.00	Actual
AGRICULTURAL POND REPAIR/RETROFIT - Engineering for embankment pond, low hazard	Job	Cost Share percent of actual amount not to exceed	$ 7,500.00	$ 9,000.00	Actual
AGRICULTURAL POND REPAIR/RETROFIT - Engineering for embankment pond, intermediate or high hazard	Job	Cost Share percent of actual amount not to exceed	$ 10,000.00	$ 12,000.00	Actual
AGRICULTURAL POND SEDIMENT REMOVAL	Job	Cost Share percent of actual amount not to exceed	$ 7,000.00	$ 8,400.00	Actual
CONSERVATION IRRIGATION CONVERSION	Job	Cost Share percent of actual amount not to exceed	$ 30,000.00	$ 36,000.00	Actual
CONSERVATION IRRIGATION CONVERSION - Design	Job	Cost Share percent of actual amount not to exceed	$ 5,000.00	$ 6,000.00	Actual
PUMP*-housing, fiberglass/site built	Each	$ 385.00	$ -	$ -	Average
PUMP*-solar powered water	Each	Cost Share percent of actual amount not to exceed	$ 5,000.00	$ 6,000.00	Actual
PUMP*-water supply	Each	Cost Share percent of actual amount not to exceed	$ 3,700.00	$ 4,400.00	Actual
TANK-temp storage, 1000 gal	Each	$ 1,463.00	$ -	$ -	Average
TANK-temp storage, 1500 gal	Each	$ 1,872.00	$ -	$ -	Average
TANK- temp storage, 2500 gal	Each	$ 2,318.00	$ -	$ -	Average
WELL*-construction/head protection	LinFt	$ 20.00	$ -	$ -	Average
WELL*-permit *(only where agriculture is not exempt from well permit fees)*	Each	Cost Share percent of actual amount not to exceed	$ 500.00	$ 600.00	Actual

For actual cost items, the payment is based on 75 or 90 percent of actual cost, not to exceed the established cost share cap. The cost share cap listed is the maximum amount of cost share reimbursement allowed for that component/BMP.

*The maximum cost for a well, including all eligible components, is $25,000.
*The maximum cost for a pond, including supporting practices, is $30,000 or $36,000. These caps do not include engineering costs.
* The maximum cost for the Livestock Water Storage BMP, including all eligible components, is $15,000.

Other components can be used from the Agriculture Cost Share Program Average Cost List as needed by BMP design.
Please refer to the each specific BMP webpage to find a list of common components for each BMP.

ATTACHMENT 13C

County	FY2023 BMP funds requested for all AgWRAP BMPs	FY2023 AgWRAP (AG) allocation ($11,000 min)
ALAMANCE	$20,000	$11,000
ALEXANDER	$40,000	$11,000
ALLEGHANY	$15,000	$11,000
ANSON	$500,000	$11,000
ASHE	$15,000	$11,000
AVERY	$9,000	$9,000
BEAUFORT	$101,305	$11,000
BERTIE	$-	$ -
BLADEN	$30,000	$15,253
BRUNSWICK	$15,000	$11,000
BUNCOMBE	$100,000	$11,000
BURKE	$40,000	$11,000
CABARRUS	$40,000	$11,000
CALDWELL	$20,000	$11,000
CAMDEN	$-	$ -
CARTERET	$7,000	$7,000
CASWELL	$-	$ -
CATAWBA	$40,000	$11,206
CHATHAM	$55,000	$11,000
CHEROKEE	$50,000	$11,000
CHOWAN	$15,000	$11,000
CLAY	$75,000	$11,000
CLEVELAND	$130,000	$11,000
COLUMBUS	$35,000	$11,000
CRAVEN	$30,000	$11,000
CUMBERLAND	$50,000	$11,000
CURRITUCK	$-	$ -
DARE	$15,000	$11,000
DAVIDSON	$18,000	$11,000
DAVIE	$7,500	$7,500
DUPLIN	$200,000	$28,647
DURHAM	$75,000	$11,000
EDGECOMBE	$45,000	$11,000
FORSYTH	$20,000	$11,000
FRANKLIN	$45,000	$11,000
GASTON	$140,592	$11,000
GATES	$40,000	$11,000
GRAHAM	$2,500	$2,500
GRANVILLE	$9,000	$9,000
GREENE	$6,000	$6,000
GUILFORD	$85,000	$11,000
HALIFAX	$100,000	$11,000

ATTACHMENT 13C

County	FY2023 BMP funds requested for all AgWRAP BMPs	FY2023 AgWRAP (AG) allocation ($11,000 min)
HARNETT	$25,000	$11,000
HAYWOOD	$25,000	$11,000
HENDERSON	$100,000	$11,000
HERTFORD	$15,000	$11,000
HOKE	$18,000	$11,000
HYDE	$10,000	$10,000
IREDELL	$20,000	$11,000
JACKSON	$3,500	$3,500
JOHNSTON	$468,013	$16,506
JONES	$65,000	$11,000
LEE	$60,000	$11,000
LENOIR	$100,000	$11,000
LINCOLN	$150,000	$11,000
MACON	$50,000	$11,000
MADISON	$50,000	$11,000
MARTIN	$-	$ -
MCDOWELL	$10,000	$10,000
MECKLENBURG	$27,000	$11,378
MITCHELL	$20,000	$11,000
MONTGOMERY	$20,000	$11,000
MOORE	$33,000	$11,000
NASH	$55,000	$11,000
NEW HANOVER	$8,000	$8,000
NORTHAMPTON	$38,000	$11,000
ONSLOW	$12,000	$11,000
ORANGE	$45,000	$11,000
PAMLICO	$19,995	$11,000
PASQUOTANK	$-	$ -
PENDER	$30,000	$11,000
PERQUIMANS	$15,000	$11,000
PERSON	$30,000	$11,000
PITT	$140,000	$11,000
POLK	$24,000	$11,000
RANDOLPH	$10,000	$10,000
RICHMOND	$15,000	$11,000
ROBESON	$145,000	$27,399
ROCKINGHAM	$125,000	$11,000
ROWAN	$20,000	$11,000
RUTHERFORD	$30,000	$11,000
SAMPSON	$230,000	$23,511
SCOTLAND	$15,000	$11,000
STANLY	$45,000	$11,000

ATTACHMENT 13C

County	FY2023 BMP funds requested for all AgWRAP BMPs	FY2023 AgWRAP (AG) allocation ($11,000 min)
STOKES	$36,000	$11,000
SURRY	$75,000	$11,000
SWAIN	$30,000	$11,000
TRANSYLVANIA	$ -	$ -
TYRRELL	$ -	$ -
UNION	$65,000	$13,038
VANCE	$5,000	$5,000
WAKE	$137,000	$13,155
WARREN	$18,000	$11,000
WASHINGTON	$10,000	$10,000
WATAUGA	$30,000	$11,000
WAYNE	$36,000	$12,204
WILKES	$177,364	$11,000
WILSON	$30,000	$11,000
YADKIN	$50,000	$11,000
YANCEY	$75,000	$11,000
TOTALS	**$5,336,769**	**$1,028,797**

Districts are encouraged to encumber AG funds before February 1, 2023, so that reallocations can be done with funds that are voluntarily returned. Funds will be made available for supplements to existing contracts or new projects ready for contracting until funds are no longer available.

FY2023 BMP Funds	$	827,500
Rollover from cancelations, releases and unencumbered funds (AG, AP, TVA)	$	382,849
Total BMP Funds	**$**	**1,210,349**

AgWRAP Funding		
District Allocations (85%)	$	1,028,797
Regional Applications (15%)	$	181,552

Structural Stormwater Conveyance

Definition/Purpose

A *Structural Stormwater Conveyance* includes various techniques to divert or control runoff from paved surfaces where a vegetated diversion is not feasible. The purpose is to ~~direct~~ manage stormwater runoff (sheet flow or concentrated) ~~away~~ from a direct discharge point and divert or control it to an approved BMP, ~~or~~ a naturally vegetated area, or to eliminate gully erosion ~~capable of removing nutrients through detention, filtration, or infiltration~~. This may be accomplished through the use of the following: curb cuts, trench drains, drop inlet and grade control structures, raised concrete or asphalt areas in parking lots, earthen berms or check dams.

Policies

1. The impervious surface treatment area must have existed for at least 3 years.

2. Practice is only eligible in situations where runoff from existing impervious surfaces does not flow onto a stable pervious area and is directed instead to a direct discharge point and is causing erosion, sedimentation, and/or nutrient losses.

3. Practice is only eligible in situations where the land use does not allow for a vegetated diversion ~~channel~~ or grassed swale to be installed, and additional techniques are required.

4. Structural stormwater conveyance techniques must be directed to an appropriately sized, approved BMP, ~~or~~ a naturally vegetated area, or other stable outlet to allow for volume reduction and treatment or to eliminate gully erosion.

5. The practice shall be sized to convey runoff generated by the peak discharge from the 2-year storm.

6. If installing a downstream BMP, it shall be appropriately sized to treat the volume according to specific program BMP guidelines.

7. If the downstream area is natural and will not be improved, the natural soil should be capable of infiltrating the volume of water generated by the aforementioned storm within 24 hours or the outlet remain stable from the conveyed additional water.

8. Devices shall not promote ponding or detention of runoff on the impervious surface. If placed in a low spot, where excessive head could build up, the device shall be sized for the 10-year storm.

9. Flow shall exit the conveyance in a non erosive manner. This may require outlet protection or other velocity dissipation techniques.

10. Practice must be designed by a Professional Engineer (PE).

11. Treatment of impervious surfaces adjacent to waterways should be given funding priority.

STRUCTURAL STORMWATER CONVEYANCE	
Lifespan	5 years single-family home, 10 years all other properties
BMP Units	NUMBER
Required Effects	Tons of soil saved (NRCS RUSLE2 or equivalent or volumetric calculation)
JAA	Design must be signed and sealed by a Professional Engineer
CS2 Reference Materials	• NC-ACSP-11 Signature Page • Map with BMP location and fields

Detailed Implementation Plan

Fiscal Year 2023

Background

The North Carolina Community Conservation Assistance Program was authorized through Session Law 2006-78 and became effective on July 10, 2006. CCAP is implemented in accordance with the rules as published 02 NCAC 59 D .0104. The purpose of CCAP is to reduce the delivery of nonpoint source (NPS) pollution into the waters of the State by installing best management practices (BMPs) on developed lands not directly involved in agricultural production. Through this voluntary, incentive-based conservation program, landowners are provided educational, technical and financial assistance.

CCAP is administered by the North Carolina Soil and Water Conservation Commission and implemented through local soil and water conservation districts. The commission meets with stakeholders to gather input on CCAP's development and administration through the CCAP Advisory Committee. CCAP receives approximately $136,000 annually in state appropriations and support for one position in the Division of Soil and Water Conservation.

The Administrative Code governing the CCAP program allows the Commission to specify in this document, the CCAP annual Detailed Implementation Plan, the proportion of available funds to allocate for cost share payments, technical and administrative assistance, and education and outreach purposes and the proportion of those funds to be allocated to district, regional, and/or statewide allocation pools. This is particularly important given the limited amount of recurring funding currently available in this program. The allocation process is depicted in figures 1 and 2.

Figure 1: Soil and Water Conservation Commission CCAP allocation process

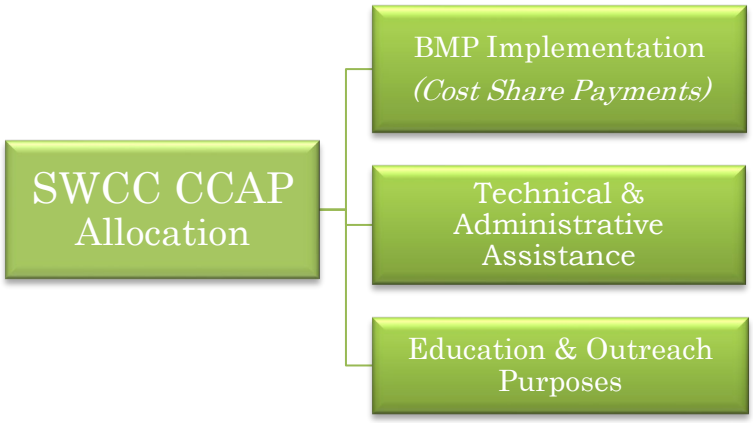
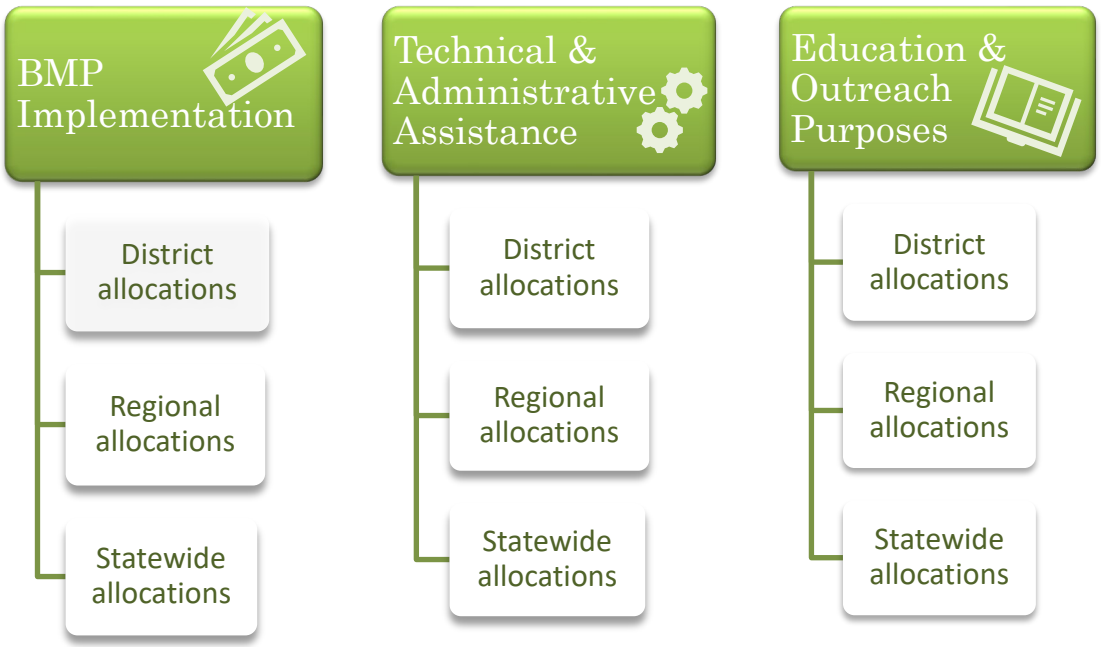
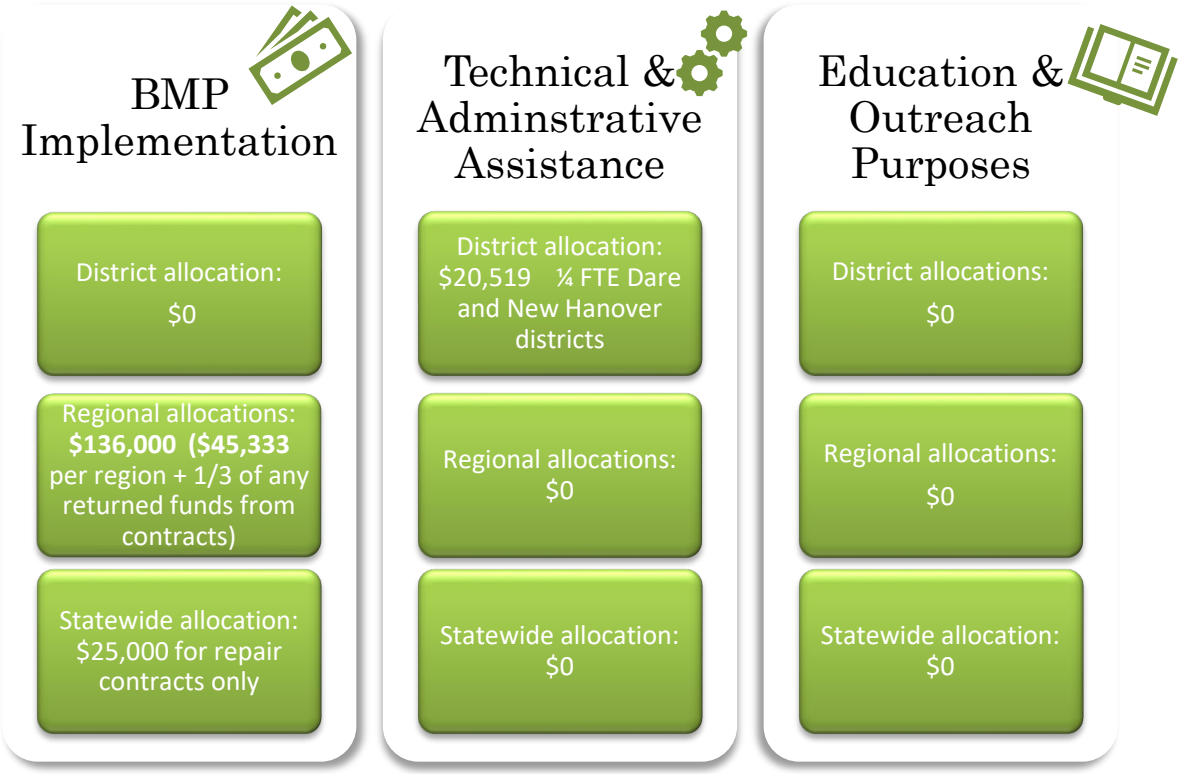


Figure 2: Soil and Water Conservation Commission CCAP allocation process for different funding pools



Fiscal Year 2023 Allocation

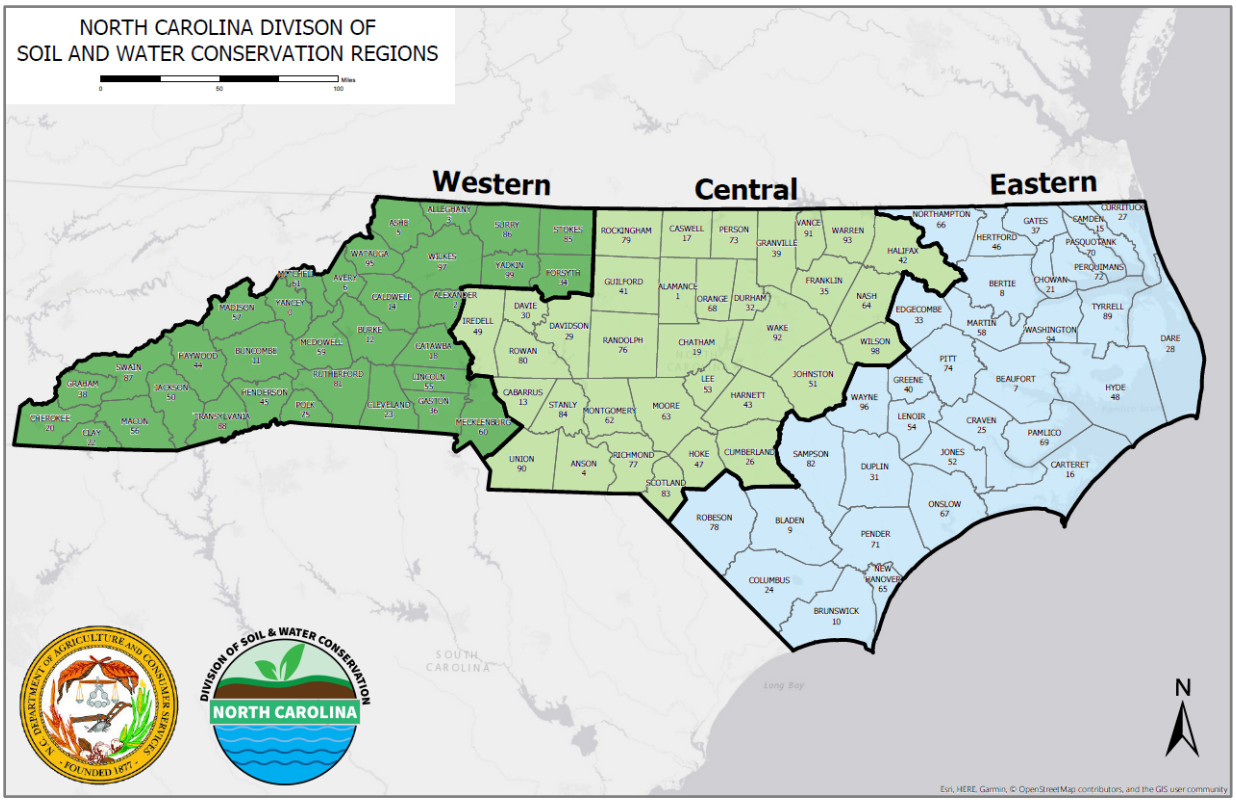
Figure 3: Proposed Soil and Water Conservation Commission FY2023 CCAP Allocation Strategy



The Commission will allocate approximately $136,000 through a competitive regional application process for any of the approved 2023 CCAP conservation practices. $25,000 will be allocated statewide for repair contracts. Repairs will be made on a first come, first serve basis until repair funds are fully expended. Repairs will be capped at $5,000 and cost shared at 75% of actual costs based upon receipts. A district may bring a request before the Commission to exceed the cap of $5,000 per repair contract. $20,519 will be allocated to the Dare and New Hanover Districts for ¼ Full Time Equivalent (FTE) position each for Technical and Administrative Assistance.

The remaining funding will be allocated for BMP Implementation and will be divided among the regions as depicted in figure 4. Any funds returned to the Division from previous years' contracts will be added to the BMP Implementation allocation pool and divided among the three regions. Applications will be approved using the same ranking criteria for each region. Should a region not have sufficient applications to fund, the Commission will allocate the remaining funds by approving applications in other regions, funding applications by highest score, with a just-in-time allocation. The maximum CCAP cost share allocation per district will be limited to $25,000.

Figure 4: Division of Soil and Water Conservation Service Regions for CCAP allocations



Fiscal Year 2023 Goals

I. Conduct a competitive regional allocation process for CCAP BMPs.
   a. Fund projects in each of the division's regions: western, central and eastern.
   b. Distribute funding for BMPs consistent with the Ranking Form with those of the highest ranking in each region receiving allocations until depleted.
   c. Continue funding repair contracts as needed

II. Continue to implement the program
   a. Ensure the One-Time Non-Recurring funds for the 2022 fiscal year are on track for implementation
   b. Maintain the CCAP website with all relevant information
   c. Maintain the job approval database
   d. Continue developing online tests for job approval authority
   e. Continue supporting district personnel in online testing and Commission procedures to obtain job approval authority
   f. Implement CCAP education and outreach efforts

Best Management Practices

Additional practices may be adopted by the Soil and Water Conservation Commission and introduced during the program year. Sites must have been developed for three years or more to be eligible for cost share assistance, and unless otherwise specified, the minimum life of all practices is 10 years. For single-family home sites, the minimum life of all practices is five years because these properties change owners more frequently.

(1) Abandoned well closure is the sealing and permanent closure of a supply well no longer in use. This practice serves to prevent entry of contaminated surface water, animals, debris or other foreign substances into the well. It also serves to eliminate the physical hazards of an open hole to people, animals and machinery.

(2) Bioretention area is the use of plants and soils for removal of pollutants from stormwater runoff. Bioretention can also be effective in reducing peak runoff rates, runoff volumes and recharging groundwater by infiltrating runoff. Bioretention areas are intended to treat impervious surface areas of greater than 2500 ft^2.

(3) A backyard rain garden is a shallow depression in the ground that captures runoff from a driveway, roof, or lawn and allows it to soak into the ground, rather than running across roads, capturing pollutants and delivering them to a stream. Backyard rain gardens are intended to treat impervious surface areas of less than 2500 ft^2.

(4) Stormwater wetland means a constructed system that mimics the functions of natural wetlands and is designed to mitigate the impacts of stormwater quality and quantity. Stormwater wetlands are intended to treat impervious surface areas of greater than 2500 ft^2.

(5) Backyard wetlands are constructed systems that mimic the functions of natural wetlands. They can temporarily store, filter and clean runoff from driveways, roofs and lawns, and thereby improve water quality. The wetland should be expected to retain water or remain saturated for two to three weeks. Backyard wetlands are intended to treat impervious surface areas of less than 2500 ft^2.

(6) A cistern is a system of collection and diversion practices to prevent stormwater from flowing across impervious areas, collecting sediment and reaching the storm drains. Benefits may include the reduction of stormwater runoff thereby reducing the opportunity for pollution to enter the storm drainage system.

(7) A critical area planting means an area of highly erodible land, which cannot be stabilized by ordinary conservation treatment on which permanent perennial vegetative cover is established and protected to improve water quality. Benefits may include reduced soil erosion and sedimentation and improved surface water quality.

(8) A diversion means a channel constructed across a slope with a supporting ridge on the lower side to control drainage by diverting excess water from an area to improve water quality.

Best Management Practices continued

(9) A grassed swale consists of a natural or constructed channel that is shaped or graded to required dimensions and established in suitable vegetation for the stable conveyance of runoff to improve water quality. Benefits may include reduced soil erosion, and sedimentation and improve the quality of surface water pollution from dissolved and sediment-attached substances.

(10) Impervious surface conversion means the removal of impenetrable materials such as asphalt, concrete, brick and stone. These materials seal surfaces, repel water, and prevent precipitation from infiltrating soils. Removal of these impervious materials, when combined with permeable pavement or vegetation establishment, is intended to reduce stormwater runoff rate and volume, as well as associated pollutants transported from the site by stormwater runoff.

(11) Permeable pavement means materials that are designed to allow water to flow through them and thus reduce the imperviousness of traffic surfaces, such as patios, walkways, sidewalks, driveways and parking areas.

(12) A pet waste receptacle means a receptacle designed to encourage pet owners to pick up after animals in parks, neighborhoods and apartment complexes so as to prevent waste from being transported off-site by stormwater runoff.

(13) A riparian buffer means an area adjacent to a stream where a permanent, long-lived vegetative cover (sod, shrubs, trees or a combination of vegetation types) is established to improve water quality. Benefits may include reduced soil erosion, sedimentation, pathogen contamination and pollution from dissolved, particulate and sediment-attached substances.

(14) A stream restoration system means the use of bioengineering practices, native material revetments, channel stability structures and/or the restoration or management of riparian corridors to protect upland BMPs, restore the natural function of the stream corridor and improve water quality by reducing sedimentation to streams from streambanks.

(15) Streambank and shoreline protection is defined as the use of vegetation to stabilize and protect banks of streams, lakes, estuaries or excavated channels against scour and erosion.

(16) Marsh sills protect estuarine shorelines from erosion, combining engineered structures with natural vegetation to maintain, restore, or enhance the shoreline's natural habitats. A sill is a coast-parallel, long or short structure built with the objective of reducing the wave action on the shoreline by forcing wave breaking over the sill. Sills are used to provide protection for existing coastal marshes, or to retain sandy fill between the sill and the eroding shoreline, to establish suitable elevations for the restoration or establishment of coastal marsh and/or riparian vegetation.

(17) A structural stormwater conveyance includes various techniques to divert and/or control runoff from paved surfaces where a vegetated diversion is not feasible. The purpose is to manage stormwater runoff (sheet flow or concentrated) from a direct discharge point and divert or control it to an approved BMP, a naturally vegetated area, or to eliminate gully erosion.

Best Management Practices continued

Table 1: Best Management Practices eligible for cost share, minimum life expectancy of each practice, and the practice type

Best Management Practice	Maintenance Period*	Practice Type
Abandoned well closure	1	Design
Backyard raingarden	10	Design
Backyard wetland	10	Design
Bioretention area	10	Design
Cisterns	10	Design
Critical area planting	10	Agronomic
Diversion	10	Design
Grassed swale	10	Design
Impervious surface conversion	10	Agronomic
Marsh sill	10	Not applicable
Permeable pavement	10	Design
Pet waste receptacle	10	Not applicable
Riparian buffer	10	Design
Stream restoration	10	Design
Streambank and shoreline stabilization	10	Design
Stormwater wetland	10	Design
Structural stormwater conveyance	10	Design

***** *The maintenance period for single-family home sites is five years except for abandoned well closure which is one year.*

NC CCAP **DRAFT FY2023 COST LIST**

Best Management Practice	Components	Unit Type	Cost Type	Share Rate	Cost Share Cap	Notes
Abandoned well closure		Each	Actual Cost	75%	$ 1,500	
Backyard rain garden			Actual Cost	75%	$ 2,750	
Backyard wetland			Actual Cost	75%	$ 2,750	
Cisterns*	<1,000 gallons (includes installation)	Each	Actual Cost	75%	$ 2,250	
	1,000 - 3,000 gallons (includes installation)	Gallon	Actual Cost	75%	$1.56/gallon	$2,250 + $1.56/gallon over 1,000 gallons (max of $4,490)
	> 3,000 gallons (includes installation)	Gallon	Actual Cost	75%	$1.65/gallon	$4,490 + $1.65/gallon over 3,000 gallons
	Accessories package	Each	Actual Cost	75%	$ 1,000	
	Shipping charge	Each	Actual Cost	75%	$ 750	
Critical area planting		Job	Actual Cost	75%		
Diversion*		Job	Actual Cost	75%		
Grassed Swale*		Job	Actual Cost	75%		
Impervious surface conversion	conversion to trees	SqFt	Actual Cost	75%		
	conversion to grass	SqFt	Actual Cost	75%		
Permeable pavement*	Non-vehicular (inc impervious removal)	SqFt	Actual Cost	75%		capped at $16.90/sqft
	Vehicular (inc impervious removal)	SqFt	Actual Cost	75%		capped at $23.00/sqft
Pet waste receptacle		Each				
	Receptacle (installed)	Each	Actual Cost	75%	$ 400	
	Receptacle (retrofit of existing trash can)	Each	Actual Cost	75%	$ 100	
	Plastic bags (per receptacle at time of original contracts)		Actual Cost	75%	$ 75	
Riparian buffer		Job	Actual Cost	75%		
Stream restoration*		Job	Actual Cost	75%		
Streambank and shoreline protection*		Job	Actual Cost	75%		
Bioretention areas*		Job	Actual Cost	75%		
Stormwater wetlands*		Job	Actual Cost	75%		
Marsh sills	<= 100 feet	Feet	Actual Cost	75%	$ 10,000	
	Each additional foot >100 feet	Feet	Actual Cost	75%	$100/foot	
Structural Stormwater Conveyance*		Job	Actual Cost	75%		
* Engineering for *BMPs* capped at 15% of the total CCAP project cost.						

1

Spotcheck Policy

- The Commission delegated responsibility to district boards of supervisors for assuring that best management practices, funded through Cost Share Programs (CSPs) contracts, are properly implemented and maintained.
- The Commission requires supervisors spot check 5% of all active cost share program contracts annually.

2

Spotcheck Policy

- **In compliance -** BMPs are functioning properly and being used for their intended purpose of the program.
- **Maintenance needed -** BMPs need routine maintenance such as reseeding of vegetation, adding mulch, gravel, etc.
- **Out of compliance -** BMPs are <u>not</u> functioning properly or <u>not</u> being used for their intended purpose of the program.

3

2022 Summary

- Annual spotchecks were received from **95** districts. (*The Haywood SWCD did not submit their spotchecks for FY2022*).
- **188** district supervisors participated in the spotchecks.
- **994** contracts were spot checked across all three programs.
- **98.5%** were in compliance.

4

ACSP Spotcheck Results

Status	Contracts	
	Number	Percent
In Compliance*	655	98.6%
Out of Compliance	9	1.4%
TOTAL	664	100%

- **27** In Compliance contracts need maintenance **(4.1% of total)**

5

AgWRAP Spotcheck Results

Status	Contracts	
	Number	Percent
In Compliance*	252	98.4%
Out of Compliance	4	1.6%
TOTAL	256	100%

- **7** In Compliance contracts need maintenance **(2.8% of total)**

6

CCAP Spotcheck Results

Status	Contracts	
	Number	Percent
In Compliance*	73	98.6%
Out of Compliance	1	1.4%
TOTAL	74	100%

- **7** In Compliance contracts need maintenance **(9.5% of total)**

7

All Programs Spotcheck Results

Status	Contracts			
	2021		2022	
In Compliance*	1048	98.1%	980	98.5%
Out of Compliance	21	2.0%	14	1.0%
TOTAL	1068		994	
*Needing Maintenance	57	5.3%	41	4.1%

8

2022 Spotchecks Summary Continued……

- Common BMPs Recently Found Out of Compliance

1. **Cropland Conversion to Grass/Trees**
2. **Grassed Waterways**
3. **Water Control Structures**

9

2022 Spotchecks Summary Continued……

- For all contracts found out of compliance or needing maintenance, districts will work with cooperators to repair, re-implement or repay a prorated amount of funds for the practice following the Commission's *Non-Compliance with Maintenance Requirements for Cost Share Contracts Policy*

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2021 Compliance BMPs Follow-Up

11

All 2021 Compliance BMPs Follow-Up Summary

	21 OUT OF COMPLIANCE BMPs			
PROGRAM	TOTAL OUT OF COMPLIANCE	BMPs RE-IMPLEMENTED	FUNDS RECOVERED	IN PROGRESS
ACSP	14	10	1	3
AgWRAP	6	6	0	0
CCAP	1	1	0	0

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NORTH CAROLINA AGRICULTURE COST SHARE PROGRAM
SPOT CHECK REPORT SUMMARY FY2022

DISTRICTS	PARTICIPATING SUPERVISORS	VISITS	TOTAL # CONTRACTS	PERCENT VISITED	IN COMPLIANCE	OUT OF COMPLIANCE	IN COMPLIANCE/ NEEDS MAINTENANCE
ALAMANCE	2	12	119	10.1%	12	0	0
ALEXANDER	1	13	34	38.2%	13	0	1
ALLEGHANY	2	9	57	15.8%	9	0	2
ANSON (BROWN CREEK)	2	10	43	23.3%	10	0	0
ASHE (NEW RIVER)	2	2	43	4.7%	2	0	0
AVERY	1	4	53	7.5%	4	0	0
BEAUFORT	2	5	27	18.5%	4	1	1
BERTIE	1	9	61	14.8%	9	0	0
BLADEN	1	10	99	10.1%	10	0	0
BRUNSWICK	3	4	4	100.0%	4	0	0
BUNCOMBE	1	4	69	5.8%	4	0	1
BURKE	1	2	39	5.1%	2	0	0
CABARRUS	1	6	23	26.1%	6	0	0
CALDWELL	3	4	73	5.5%	4	0	0
CAMDEN (ALBEMARLE)	3	2	7	28.6%	2	0	0
CARTERET	1	N/A	N/A	N/A	N/A	N/A	N/A
CASWELL	1	11	220	5.0%	11	0	0
CATAWBA	1	3	28	10.7%	3	0	1
CHATHAM	2	13	63	20.6%	13	0	0
CHEROKEE	2	21	196	10.7%	21	0	0
CHOWAN (ALBEMARLE)	1	5	41	12.2%	5	0	0
CLAY	3	8	118	6.8%	8	0	0
CLEVELAND	4	5	60	8.3%	5	0	0
COLUMBUS	1	4	54	7.4%	4	0	1
CRAVEN	1	3	13	23.1%	3	0	1
CUMBERLAND	3	7	103	6.8%	7	0	1
CURRITUCK (ALBEMARLE)	3	2	2	100.0%	2	0	0
DARE	1	1	2	50.0%	1	0	0
DAVIDSON	1	8	34	23.5%	8	0	0
DAVIE	2	12	45	26.7%	12	0	0
DUPLIN	1	9	120	7.5%	9	0	1
DURHAM	1	7	42	16.7%	6	1	1
EDGECOMBE	1	7	26	26.9%	6	1	1
FORSYTH	1	2	36	5.6%	2	0	0
FRANKLIN	4	10	43	23.3%	10	0	0
GASTON	2	2	28	7.1%	2	0	0
GATES	4	4	23	17.4%	4	0	0
GRAHAM	1	7	79	8.9%	7	0	0
GRANVILLE	1	4	84	4.8%	4	0	0
GREENE	2	8	67	11.9%	8	0	0
GUILFORD	1	17	98	17.3%	17	0	1
HALIFAX (FISHING CREEK)	3	3	30	10.0%	3	0	1
HARNETT	3	11	186	5.9%	11	0	0
HAYWOOD	NR	NR	NR	NR	NR	NR	NR
HENDERSON	1	6	59	10.2%	6	0	0
HERTFORD	1	1	11	9.1%	1	0	0
HOKE	1	6	20	30.0%	6	0	0
HYDE	4	8	42	19.0%	8	0	0
IREDELL	1	2	22	9.1%	1	1	1
JACKSON	1	8	49	16.3%	8	0	1
JOHNSTON	4	25	270	9.3%	23	2	0
JONES	1	1	4	25.0%	1	0	0
LEE	5	15	102	14.7%	15	0	0
LENOIR	1	5	45	11.1%	5	0	1
LINCOLN	1	11	35	31.4%	11	0	0
MACON	2	2	22	9.1%	2	0	0

NORTH CAROLINA AGRICULTURE COST SHARE PROGRAM
SPOT CHECK REPORT SUMMARY FY2022

DISTRICTS	PARTICIPATING SUPERVISORS	VISITS	TOTAL # CONTRACTS	PERCENT VISITED	IN COMPLIANCE	OUT OF COMPLIANCE	IN COMPLIANCE/ NEEDS MAINTENANCE
MADISON	2	5	70	7.1%	5	0	3
MARTIN	1	3	58	5.2%	3	0	0
MCDOWELL	1	4	15	26.7%	4	0	0
MECKLENBURG	2	1	9	11.1%	1	0	0
MITCHELL	4	18	73	24.7%	18	0	0
MONTGOMERY	3	5	12	41.7%	5	0	0
MOORE	1	15	40	37.5%	15	0	0
NASH	3	2	35	5.7%	1	1	0
NEW HANOVER	1	N/A	N/A	N/A	N/A	N/A	N/A
NORTHAMPTON	1	4	4	100.0%	4	0	0
ONSLOW	1	5	57	8.8%	4	1	0
ORANGE	1	11	105	10.5%	11	0	1
PAMLICO	2	2	23	8.7%	2	0	0
PASQUOTANK (ALBEMARLE)	3	2	6	33.3%	2	0	0
PENDER	3	3	29	10.3%	3	0	0
PERQUIMANS (ALBEMARLE)	1	2	44	4.5%	2	0	0
PERSON	2	7	94	7.4%	7	0	0
PITT	2	7	84	8.3%	7	0	0
POLK	2	3	17	17.6%	3	0	0
RANDOLPH	1	5	31	16.1%	5	0	0
RICHMOND	3	7	22	31.8%	7	0	0
ROBESON	1	8	91	8.8%	8	0	0
ROCKINGHAM	1	6	120	5.0%	6	0	0
ROWAN	1	4	47	8.5%	4	0	0
RUTHERFORD	1	5	50	10.0%	5	0	0
SAMPSON	3	5	58	8.6%	5	0	0
SCOTLAND	1	4	26	15.4%	4	0	0
STANLY	1	4	30	13.3%	4	0	0
STOKES	4	7	76	9.2%	7	0	1
SURRY	4	6	99	6.1%	6	0	0
SWAIN	3	5	36	13.9%	5	0	0
TRANSYLVANIA	1	8	45	17.8%	8	0	0
TYRRELL	2	2	16	12.5%	2	0	0
UNION	1	11	53	20.8%	11	0	0
VANCE	1	5	26	19.2%	5	0	0
WAKE	4	6	108	5.6%	6	0	1
WARREN	2	5	66	7.6%	5	0	0
WASHINGTON	1	5	31	16.1%	5	0	0
WATAUGA	3	8	42	19.0%	8	0	3
WAYNE	3	16	131	12.2%	16	0	1
WILKES	5	24	54	44.4%	24	0	0
WILSON	2	5	83	6.0%	5	0	0
YADKIN	1	13	71	18.3%	12	1	0
YANCEY	1	11	161	6.8%	11	0	0
TOTALS	**188**	**664**	**5,621**	**11.8%**	**655**	**9**	**27**
					In Compliance	**Out of Compliance**	**Needs Maintenance**
					98.6%	**1.4%**	**4.1%**

N/A= no current contracts needing spot check

NR= spot checks not reported

NORTH CAROLINA AGRICULTURAL WATER RESOURCES ASSISTANCE PROGRAM
SPOT CHECK REPORT SUMMARY FY2022

DISTRICTS	PARTICIPATING SUPERVISORS	VISITS	TOTAL # CONTRACTS	PERCENT VISITED	IN COMPLIANCE	OUT OF COMPLIANCE	IN COMPLIANCE/ NEEDS MAINTENANCE
ALAMANCE	2	2	2	100.0%	2	0	0
ALEXANDER	1	1	6	16.7%	1	0	0
ALLEGHANY	2	1	10	10.0%	1	0	0
ANSON (BROWN CREEK)	2	1	7	14.3%	1	0	0
ASHE (NEW RIVER)	2	1	10	10.0%	1	0	0
AVERY	1	6	9	66.7%	6	0	0
BEAUFORT	2	1	7	14.3%	1	0	0
BERTIE	1	N/A	N/A	N/A	N/A	N/A	N/A
BLADEN	1	2	12	16.7%	2	0	0
BRUNSWICK	3	N/A	N/A	N/A	N/A	N/A	N/A
BUNCOMBE	1	6	10	60.0%	6	0	1
BURKE	1	3	9	33.3%	3	0	0
CABARRUS	1	1	6	16.7%	1	0	0
CALDWELL	3	1	6	16.7%	1	0	0
CAMDEN (ALBEMARLE)	3	N/A	N/A	N/A	N/A	N/A	N/A
CARTERET	1	1	1	100.0%	1	0	0
CASWELL	1	N/A	N/A	N/A	N/A	N/A	N/A
CATAWBA	1	1	9	11.1%	1	0	0
CHATHAM	2	3	10	30.0%	3	0	0
CHEROKEE	2	25	26	96.2%	25	0	0
CHOWAN (ALBEMARLE)	1	1	1	100.0%	1	0	0
CLAY	3	9	10	90.0%	9	0	0
CLEVELAND	4	7	20	35.0%	7	0	0
COLUMBUS	1	1	9	11.1%	1	0	0
CRAVEN	1	1	1	100.0%	1	0	0
CUMBERLAND	3	2	7	28.6%	2	0	0
CURRITUCK (ALBEMARLE)	3	N/A	N/A	N/A	N/A	N/A	N/A
DARE	1	1	1	100.0%	1	0	0
DAVIDSON	1	1	3	33.3%	1	0	0
DAVIE	2	N/A	N/A	N/A	N/A	N/A	N/A
DUPLIN	1	12	52	23.1%	12	0	0
DURHAM	1	3	11	27.3%	3	0	0
EDGECOMBE	1	1	2	50.0%	1	0	0
FORSYTH	1	2	8	25.0%	2	0	0
FRANKLIN	4	N/A	N/A	N/A	N/A	N/A	N/A
GASTON	2	3	7	42.9%	3	0	1
GATES	4	4	4	100.0%	4	0	0
GRAHAM	1	3	18	16.7%	3	0	0
GRANVILLE	1	1	5	20.0%	1	0	0
GREENE	2	1	1	100.0%	1	0	0
GUILFORD	1	1	19	5.3%	1	0	0
HALIFAX (FISHING CREEK)	3	6	10	60.0%	6	0	1
HARNETT	3	3	6	50.0%	3	0	0
HAYWOOD	NR	NR	NR	NR	NR	NR	NR
HENDERSON	1	6	14	42.9%	6	0	0
HERTFORD	1	2	5	40.0%	2	0	0
HOKE	1	1	2	50.0%	1	0	0
HYDE	4	2	2	100.0%	2	0	0
IREDELL	1	1	6	16.7%	1	0	0
JACKSON	1	1	1	100.0%	1	0	0
JOHNSTON	4	4	36	11.1%	4	0	0
JONES	1	2	3	66.7%	2	0	1
LEE	5	6	13	46.2%	6	0	0
LENOIR	1	5	10	50.0%	5	0	0

NORTH CAROLINA AGRICULTURAL WATER RESOURCES ASSISTANCE PROGRAM
SPOT CHECK REPORT SUMMARY FY2022

DISTRICTS	PARTICIPATING SUPERVISORS	VISITS	TOTAL # CONTRACTS	PERCENT VISITED	IN COMPLIANCE	OUT OF COMPLIANCE	IN COMPLIANCE/ NEEDS MAINTENANCE
LINCOLN	1	17	32	53.1%	16	1	1
MACON	2	2	2	100.0%	2	0	0
MADISON	2	1	17	5.9%	1	0	0
MARTIN	1	N/A	N/A	N/A	N/A	N/A	N/A
MCDOWELL	1	1	8	12.5%	1	0	0
MECKLENBURG	2	1	8	12.5%	1	0	0
MITCHELL	4	4	19	21.1%	4	0	0
MONTGOMERY	3	1	3	33.3%	1	0	0
MOORE	1	8	8	100.0%	8	0	0
NASH	3	1	4	25.0%	1	0	0
NEW HANOVER	1	N/A	N/A	N/A	N/A	N/A	N/A
NORTHAMPTON	1	N/A	N/A	N/A	N/A	N/A	N/A
ONSLOW	1	3	14	21.4%	1	2	0
ORANGE	1	2	6	33.3%	2	0	0
PAMLICO	2	2	7	28.6%	2	0	0
PASQUOTANK (ALBEMARLE)	3	N/A	N/A	N/A	N/A	N/A	N/A
PENDER	3	3	15	20.0%	3	0	0
PERQUIMANS (ALBEMARLE)	1	2	2	100.0%	2	0	0
PERSON	2	1	1	100.0%	1	0	0
PITT	2	4	8	50.0%	4	0	0
POLK	2	2	2	100.0%	2	0	0
RANDOLPH	1	1	11	9.1%	1	0	0
RICHMOND	3	1	5	20.0%	1	0	0
ROBESON	1	3	50	6.0%	3	0	0
ROCKINGHAM	1	5	23	21.7%	5	0	1
ROWAN	1	1	11	9.1%	1	0	1
RUTHERFORD	1	4	4	100.0%	4	0	0
SAMPSON	3	8	18	44.4%	8	0	0
SCOTLAND	1	N/A	N/A	N/A	N/A	N/A	N/A
STANLY	1	2	9	22.2%	2	0	0
STOKES	4	1	11	9.1%	0	1	0
SURRY	4	2	24	8.3%	2	0	0
SWAIN	3	1	3	33.3%	1	0	0
TRANSYLVANIA	1	2	2	100.0%	2	0	0
TYRRELL	2	N/A	N/A	N/A	N/A	N/A	N/A
UNION	1	1	11	9.1%	1	0	0
VANCE	1	1	6	16.7%	1	0	0
WAKE	4	1	12	8.3%	1	0	0
WARREN	2	1	1	100.0%	1	0	0
WASHINGTON	1	1	1	100.0%	1	0	0
WATAUGA	3	1	9	11.1%	1	0	0
WAYNE	3	2	8	25.0%	2	0	0
WILKES	5	10	45	22.2%	10	0	0
WILSON	2	1	4	25.0%	1	0	0
YADKIN	1	1	13	7.7%	1	0	0
YANCEY	1	1	5	20.0%	1	0	0
TOTALS	**188**	**256**	**869**	**29.5%**	**252**	**4**	**7**

In Compliance	Out of Compliance	Needs Maintenance
98.4%	**1.6%**	**2.7%**

N/A= no current contracts needing spot check

NR= spot checks not reported

NORTH CAROLINA COMMUNITY CONSERVATION ASSISTANCE PROGRAM
SPOT CHECK REPORT SUMMARY FY2022

DISTRICTS	PARTICIPATING SUPERVISORS	VISITS	TOTAL # CONTRACTS	PERCENT VISITED	IN COMPLIANCE	OUT OF COMPLIANCE	IN COMPLIANCE/ NEEDS MAINTENANCE
ALAMANCE	2	N/A	N/A	N/A	N/A	N/A	N/A
ALEXANDER	1	1	6	16.7%	1	0	0
ALLEGHANY	2	1	4	25.0%	1	0	1
ANSON (BROWN CREEK)	2	N/A	N/A	N/A	N/A	N/A	N/A
ASHE (NEW RIVER)	2	1	3	33.3%	1	0	1
AVERY	1	3	5	60.0%	3	0	0
BEAUFORT	2	N/A	N/A	N/A	N/A	N/A	N/A
BERTIE	1	N/A	N/A	N/A	N/A	N/A	N/A
BLADEN	1	N/A	N/A	N/A	N/A	N/A	N/A
BRUNSWICK	3	3	3	100.0%	3	0	0
BUNCOMBE	1	1	10	10.0%	1	0	0
BURKE	1	1	5	20.0%	1	0	0
CABARRUS	1	1	2	50.0%	1	0	0
CALDWELL	3	1	5	20.0%	1	0	0
CAMDEN (ALBEMARLE)	3	N/A	N/A	N/A	N/A	N/A	N/A
CARTERET	1	9	9	100.0%	9	0	0
CASWELL	1	N/A	N/A	N/A	N/A	N/A	N/A
CATAWBA	1	1	4	25.0%	1	0	0
CHATHAM	2	1	9	11.1%	1	0	0
CHEROKEE	2	1	1	100.0%	1	0	0
CHOWAN (ALBEMARLE)	1	N/A	N/A	N/A	N/A	N/A	N/A
CLAY	3	3	3	100.0%	3	0	0
CLEVELAND	4	1	1	100.0%	1	0	0
COLUMBUS	1	0	0	0.0%	0	0	0
CRAVEN	1	N/A	N/A	N/A	N/A	N/A	N/A
CUMBERLAND	3	N/A	N/A	N/A	N/A	N/A	N/A
CURRITUCK (ALBEMARLE)	3	N/A	N/A	N/A	N/A	N/A	N/A
DARE	1	1	10	10.0%	1	0	0
DAVIDSON	1	N/A	N/A	N/A	N/A	N/A	N/A
DAVIE	2	N/A	N/A	N/A	N/A	N/A	N/A
DUPLIN	1	N/A	N/A	N/A	N/A	N/A	N/A
DURHAM	1	1	10	10.0%	1	0	0
EDGECOMBE	1	1	2	50.0%	1	0	0
FORSYTH	1	1	7	14.3%	1	0	0
FRANKLIN	4	N/A	N/A	N/A	N/A	N/A	N/A
GASTON	2	1	2	50.0%	1	0	0
GATES	4	N/A	N/A	N/A	N/A	N/A	N/A
GRAHAM	1	N/A	N/A	N/A	N/A	N/A	N/A
GRANVILLE	1	N/A	N/A	N/A	N/A	N/A	N/A
GREENE	2	N/A	N/A	N/A	N/A	N/A	N/A
GUILFORD	1	1	9	11.1%	1	0	0
HALIFAX (FISHING CREEK)	3	N/A	N/A	N/A	N/A	N/A	N/A
HARNETT	3	1	4	25.0%	1	0	0
HAYWOOD	NR	NR	NR	NR	NR	NR	NR
HENDERSON	1	2	10	20.0%	2	0	0
HERTFORD	1	1	1	100.0%	1	0	0
HOKE	1	N/A	N/A	N/A	N/A	N/A	N/A
HYDE	4	N/A	N/A	N/A	N/A	N/A	N/A
IREDELL	1	N/A	N/A	N/A	N/A	N/A	N/A
JACKSON	1	1	3	33.3%	1	0	0
JOHNSTON	4	1	10	10.0%	1	0	0
JONES	1	1	1	100.0%	1	0	0
LEE	5	N/A	N/A	N/A	N/A	N/A	N/A
LENOIR	1	N/A	N/A	N/A	N/A	N/A	N/A
LINCOLN	1	1	1	100.0%	1	0	0
MACON	2	2	2	100.0%	2	0	0

NORTH CAROLINA COMMUNITY CONSERVATION ASSISTANCE PROGRAM
SPOT CHECK REPORT SUMMARY FY2022

DISTRICTS	PARTICIPATING SUPERVISORS	VISITS	TOTAL # CONTRACTS	PERCENT VISITED	IN COMPLIANCE	OUT OF COMPLIANCE	IN COMPLIANCE/ NEEDS MAINTENANCE
MADISON	2	1	5	20.0%	1	0	1
MARTIN	1	N/A	N/A	N/A	N/A	N/A	N/A
MCDOWELL	1	1	3	33.3%	1	0	0
MECKLENBURG	2	1	4	25.0%	1	0	0
MITCHELL	4	1	6	16.7%	1	0	0
MONTGOMERY	3	N/A	N/A	N/A	N/A	N/A	N/A
MOORE	1	N/A	N/A	N/A	N/A	N/A	N/A
NASH	3	1	5	20.0%	1	0	0
NEW HANOVER	1	1	2	50.0%	1	0	2
NORTHAMPTON	1	N/A	N/A	N/A	N/A	N/A	N/A
ONSLOW	1	1	2	50.0%	1	0	0
ORANGE	1	1	10	10.0%	0	1	0
PAMLICO	2	N/A	N/A	N/A	N/A	N/A	N/A
PASQUOTANK (ALBEMARLE)	3	1	1	100.0%	1	0	0
PENDER	3	2	2	100.0%	2	0	0
PERQUIMANS (ALBEMARLE)	1	N/A	N/A	N/A	N/A	N/A	N/A
PERSON	2	N/A	N/A	N/A	N/A	N/A	N/A
PITT	2	2	7	28.6%	2	0	0
POLK	2	N/A	N/A	N/A	N/A	N/A	N/A
RANDOLPH	1	1	7	14.3%	1	0	0
RICHMOND	3	N/A	N/A	N/A	N/A	N/A	N/A
ROBESON	1	N/A	N/A	N/A	N/A	N/A	N/A
ROCKINGHAM	1	N/A	N/A	N/A	N/A	N/A	N/A
ROWAN	1	N/A	N/A	N/A	N/A	N/A	N/A
RUTHERFORD	1	N/A	N/A	N/A	N/A	N/A	N/A
SAMPSON	3	N/A	N/A	N/A	N/A	N/A	N/A
SCOTLAND	1	N/A	N/A	N/A	N/A	N/A	N/A
STANLY	1	N/A	N/A	N/A	N/A	N/A	N/A
STOKES	4	1	4	25.0%	1	0	0
SURRY	4	1	8	12.5%	1	0	0
SWAIN	3	N/A	N/A	N/A	N/A	N/A	N/A
TRANSYLVANIA	1	1	3	33.3%	1	0	0
TYRRELL	2	N/A	N/A	N/A	N/A	N/A	N/A
UNION	1	N/A	N/A	N/A	N/A	N/A	N/A
VANCE	1	N/A	N/A	N/A	N/A	N/A	N/A
WAKE	4	1	10	10.0%	1	0	1
WARREN	2	1	1	100.0%	1	0	1
WASHINGTON	1	N/A	N/A	N/A	N/A	N/A	N/A
WATAUGA	3	1	4	25.0%	1	0	0
WAYNE	3	N/A	N/A	N/A	N/A	N/A	N/A
WILKES	5	3	4	75.0%	3	0	0
WILSON	2	1	1	100.0%	1	0	0
YADKIN	1	4	4	100.0%	4	0	0
YANCEY	1	1	4	25.0%	1	0	0
TOTALS	**188**	**74**	**239**	**31.0%**	**73**	**1**	**7**
					In Compliance	**Out of Compliance**	**Needs Maintenance**
					98.6%	**1.4%**	**9.5%**

N/A= no current contracts needing spot check

NR= spot checks not reported

SUPERVISOR TRAINING CREDIT REPORT - August 2022

NC General Statue 139-7.2 includes training requirements for district supervisors; "(a) All district supervisors, whether elected or appointed, shall complete a minimum of six clock hours of training per term of service."

Program Rules for the Commission's Supervisor Training Program require the Division to provide a summary of Supervisor Training Credits (STCs) by February 1 of odd years. This report will be planned as part of the January 2023 Commission meeting agenda.

Below is a term summary of current hours achieved, as well as an update of STCs awarded by the Division since July 21, 2021.

In total, the following STCs have been awarded since December 2018:

2018-2022 TERMS – STCs due December 2022

Total supervisors	6+ STCs	0-6 STCs	0 STCs
296	258	22	16*
100 %	87.2 %	7.4 %	5.4 %

**It should be noted; of the 15 supervisors that have achieved zero hours in the 2018-2022 terms, 5 seats are vacant and 8 of these individuals have been appointed by the Commission since February 2022 and did not have the opportunity to attend Basic Training where 6.0 STCs are awarded.*

The average hours achieved for 2018-2022 terms is 16.9 and the highest is 69.0 STCs (Blount Knowles, Bertie SWCD).

Regional Coordinators are placing an emphasis on training with the district supervisors they support with individual training opportunities offered, as well as coordinating with Area Chairs to plan content for 2022 NCASWCD Fall Meeting agendas.

2020-2024 TERMS – STCs due December 2024

Total supervisors	6+ STCs	0-6 STCs	0 STCs
196	125	49	22
100 %	63.8 %	25.0 %	11.2 %

The average hours achieved for the 2020-2024 terms is 8.9 and the highest is 40.0 STCs (Lena Simmons, Cumberland SWCD).

Individual supervisor summary reports are available online on the Division website:
http://www.ncagr.gov/SWC/professional_development/SupervisorTrainingProgram.html

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ATTACHMENT 16A

Since July 21, 2021, the following training credits have been awarded by the Division:

NCASWCD 2021 AREA FALL MEETINGS

- 452.75 STCs – Awarded to participating supervisors in 8 Area Meetings – awards range from 1.25 STCs to 2.5 STCs based on program/presenters

NCASWCD 2022 ANNUAL MEETING

- 786.5 STCs – Awarded to 101 participating supervisors – awards range from 5.5 STCs to 11.5 STCs based on program/presenters

2022 BASIC TRAINING

- 168 STCs – Awarded to 28 participating supervisors – 6.0 STCs per participant

NCASWCD 2022 AREA SPRING MEETINGS

- 497.75 STCs – Awarded to participating supervisors in 8 Area Meetings – awards range from 1.5 STCs to 3.5 STCs based on program/presenters

LOCAL TRAINING ACTIVITIES

Commission Sponsored

- 3.5 STCs – Awarded to Supervisor participants in the Commission sponsored field tour (July 20)
- 5.0 STCs – Awarded to Supervisor participants in the Commission sponsored field tour (September 21)
- 3.5 STCs – Awarded to Supervisor participants in the Commission sponsored field tour (March 15)
- 3.0 STCs – Awarded to Supervisor participants in the Commission sponsored field tour (May 17)

Division Sponsored

- 18.25 STCs – Awarded to Supervisor participants in the Conservation Employee Training (CET) – *General Session and various classroom and field trainings*
- 1.5 STCs – Awarded to 11 Supervisor participants in the two StRAP orientation and Q&A training webinar in January 2022
- 2.0 STCs – Awarded to 7 Supervisor participants in the StRAP roundtable discussion in February 2022
- 2.25 STCs – Awarded to 16 Supervisor participants in the StRAP orientation and Q&A training webinar in February 2022
- 0.5 STCs – Awarded to Supervisor participants in Local Advisory Committee training sessions hosted by Allie Dinwiddie in March and April 2022
- 0.25 STCs – Awarded to Supervisor participants in Local Advisory Committee training session hosted by Allie Dinwiddie in May 2022
- 3.0 STCs – Awarded to 4 Supervisor participants in Area 2 StRAP field training
- 3.0 STCs – Awarded to 2 Graham Supervisor participants in special training opportunity *(DSWC Resources Review)*

NCASWCD Sponsored

- 3.0 STCs – Awarded to 16 Supervisor participants in the Conservation Easements 101 and Conservation Easements 102 sessions held virtually in January 2022

NRCS Sponsored

- 2.0 STCs – Awarded to 1 Supervisor participant in the *From Flames to Forest* webinar held virtually in June 2022

Local Board Meetings

- 1.75 STCs – Awarded to three Wilkes Supervisors (board meeting) for recorded video on *Soil & Water Partnerships (NCASWCD resource)*
- 1.0 STCs – Awarded to ten Albemarle Supervisors (board meeting) for presentation by Dr. Waleed Nasser on *Blue Green Water Technology*
- 0.5 STCs – Awarded to four Sampson Supervisors (board meeting) for NCDA&CS Veterinary Division presentation on *NC Feral Swine Task Force*
- 0.5 STCs – Awarded to four Jackson Supervisors (board meeting) for recorded video and discussion on *Understanding the NC Open Meetings Law (DSWC resource)*
- 1.5 STCs – Awarded to fourteen Albemarle Supervisors (board meeting) for presentation by Andrew Branan (NCSU) on *Voluntary Ag Districts and farm law*
- 0.5 STCs – Awarded to five Polk Supervisors (board meeting) for recorded video and discussion on *Understanding the NC Open Meetings Law (DSWC resource)*
- 1.0 STCs – Awarded to five Moore Supervisors (board meeting) for presentation by Dick Fowler related to *Conservation Easements*
- 1.0 STCs – Awarded to four Pamlico Supervisors (board meeting) for presentation by Allie Dinwiddie related to *Water Control Structures and NSW Reporting*
- 1.0 STCs – Awarded to two Bladen Supervisors (board meeting) for recorded video and discussion on *Drones – Is It a Good Fit for Your District (DSWC resource)*
- 0.5 STCs – Awarded to four Hyde Supervisors (board meeting) for presentation by Bryan Evans and Jimmy Johnson related to *Voluntary Ag Districts*
- 1.0 STCs – Awarded to four New Hanover Supervisors (board meeting) for presentations by The Nature Conservancy and UNCW Professor related to *Sidbury Savannah – local biodiversity hotspot*

Local Field Days / Outreach Events

- 2.0 STCs – Awarded to four Durham Supervisors (district retreat) facilitated by NC Foundation for Soil and Water Conservation staff – *supervisor roles and responsibilities*
- 2.0 STCs – Awarded to Hyde Supervisor for (district outreach) Managing Your Land and Legacy Opportunities & Options
- 4.0 STCs – Awarded to Hyde Supervisor for innovative BMP field tour with NRCS leadership – agricultural drainage
- 2.0 STCs – Awarded to nine Area 2 Supervisors for participation in an Area 2 District Issues Meeting – topics included EWP District Experiences, Mutual Aid Agreement Discussion, District

Considerations regarding Conservation Easements, JAA Updates and Stream Debris Removal BMP Updates

- 2.5 STCs – Awarded to Hoke Supervisor for participation in Working Lands for Wildlife webinar sponsored by Ruffed Grouse Society and NRCS
- 3.0 STCs – Awarded to Mecklenburg Supervisor for participation in Soils Training related to BMPs sponsored by Gaston SWCD and DSWC
- 6.0 STCs – Awarded to three Supervisors for participation in Soil Training related to BMPs and field component sponsored by Gaston SWCD and DSWC

CABARRUS
Soil & Water
Conservation
DISTRICT

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Website:
https://www.cabarruscounty.us/Government/Departments/Planning-and-Development/Soil-and-Water-Conservation

July 27, 2022

John Langdon, Chair
NC Soil & Water Conservation Commission
c/o NC Division of Soil & Water Conservation
1614 Mail Service Center
Raleigh, NC 27699-1614

Chair Langdon:

Please accept this letter and the accompanying information as a request for approval for **six (6) Supervisor Training Credits (STCs)** for **two (2) online – live seminars** taken June 01, 2022, and June 30, 2022.

Each of these seminars were facilitated by staff from the State of North Carolina Department of Public Safety – Emergency Management, Hazard Mitigation division. The topic of the seminars were floodplains, floodplain management, and mitigation planning.

According to the Professional Development – Supervisor Training Program web page[1], "*To be approved for STCs, the course or event shall include content related to one of two training topics, as listed in NC General Statute 139-7.2:*

- *Soil, water, and natural resource conservation*
- *Duties and responsibilities of district supervisors*"

Presenters for these seminars touched on floodplains and floodplain management. A key component in discussing these topics is also mitigation planning. Mitigation planning not only helps saves lives and property, but "*can also lead to other benefits. For example, acquiring land in known hazard areas can help preserve open space, maintain environmental health and enhance recreational opportunities.*"[2]

These additional identified benefits of mitigation planning regarding floodplains and floodplain management seem to directly speak to the topic of "*soil, water, and natural resource conservation.*" In identifying a nexus between these seminars and one of the two training topics it seems appropriate to consider this request for approval of six (6) STCs.

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https://www.cabarruscounty.us/Government/Departments/Planning-and-Development/Soil-and-Water-Conservation

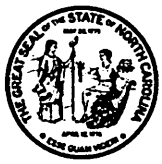
July 27, 2022

The Commission's time and efforts in consideration and discussion of this request are appreciated.

Respectfully,

Kevin E. May, Jr.
Member, CSWCD

[1]https://www.ncagr.gov/SWC/professional_development/SupervisorTrainingProgram.html
[2]https://www.ncdps.gov/emergency-management/em-community/recovery-mitigation/hazard-mitigation/mitigation-planning



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State of North Carolina

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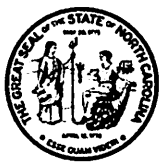

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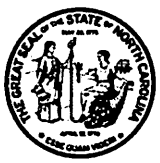

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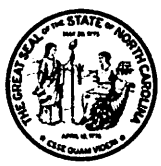

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May, Kevin

Subject:	[EXT]Webex meeting invitation: NFIP 101 Workshop June 2022
Location:	https://ncdps.webex.com/ncdps/j.php?MTID=m9fa8b237d9ca48fab32849ee14857792
Start:	Wed 6/1/2022 8:30 AM
End:	Wed 6/1/2022 12:30 PM
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	Stacey Fuller

FPA 101 Virtual Workshop Agenda

June 1, 2022

8:30 AM – 12:30PM

Presenters: Eryn Futral, Terry Foxx, and Steve Garrett
1. Welcome, Introductions & Administration
2. Community Assistance Visits (CAVs) – Terry Foxx
3. Elevation Certificates – FPAs' Review Procedures – Eryn Futral
4. Training Opportunities/How to Access – TERMS, EMI, ASFPM, etc. – Steve Garrett

Final Questions and Wrap-Up

May, Kevin

Subject:	[EXT]Webex meeting invitation: NFIP Virtual 101
Location:	https://ncdps.webex.com/ncdps/j.php?MTID=mcb0824d4d07573b902b765ae93ccaac9
Start:	Thu 6/30/2022 12:30 PM
End:	Thu 6/30/2022 4:30 PM
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	Stacey Fuller

FPA 101 Virtual Workshop Schedule & Topics

June 30, 2022
12:30 PM – 4:30PM: Casey Buddenbaum, John Lay, Dan Madding, Colleen Kiley, Eryn Futral, Steve Garrett, Stacey Fuller, Derek Frohbieter
12:30 – 1:00: Welcome, Introductions & Updates
1:00 – 1:30: Draft Flood Hazard Viewer (Casey), Spatial Data Download and RSS Services (John), Building Footprint Updates (Dan)
1:30 – 2:15: NC One Map and State GIS Products (Colleen)
2:15 – 2:25: Break
2:25 – 3:00: Training Opportunities/How to Access – TERMS, EMI, Society of Surveyors, etc. (Steve)
3:00 – 3:30: Publications and Other Resources Technical Bulletins (Eryn)
- ASFPM
- NCAFPM

3:30 – 4:15: Web Products (Stacey, Derek)
- Flood Risk Information System (FRIS)
- NC Flood
- Flood Inundation Mapping Alert Network (FIMAN)

4:15 – 4:30: Final Questions and Wrap-Up

North Carolina Emergency Management

Certificate of Completion

This certificate is awarded to

Kevin E. May, Jr.

For satisfactory completion of the requirements for
North Carolina Emergency Management's class in

Floodplain Administrator "Virtual" Workshop (VT-NCFPA101)

Training

Completed June 1, 2022

Course Hours: 4

William C. Ray. Director
N.C. Emergency Management

North Carolina Emergency Management

Certificate of Completion

This certificate is awarded to

Kevin E. May, Jr.

For satisfactory completion of the requirements for
North Carolina Emergency Management's class in

Floodplain Administrator "Virtual" Workshop (VT-NCFPA101) Training

Completed June 30, 2022

Course Hours: 4

William C. Ray, Director
N.C. Emergency Management