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 FY2022, there are 64 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 2022 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 FY2022 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

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>20%</td>
</tr>
<tr>
<td>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.</td>
<td>20%</td>
</tr>
<tr>
<td>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 a produced by the North Carolina Division Water Resources.</td>
<td>20%</td>
</tr>
<tr>
<td>Relative rank of the percentage of the county draining to waters classified as Primary Nursery Areas, Outstanding Resource Waters, High Quality Waters, 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.</td>
<td>10%</td>
</tr>
<tr>
<td>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.</td>
<td>20%</td>
</tr>
<tr>
<td>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.</td>
<td>10%</td>
</tr>
</tbody>
</table>

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 needs 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, 2022, 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.

<table>
<thead>
<tr>
<th>PRACTICE</th>
<th>MINIMUM LIFE EXPECTANCY (years)</th>
<th>PRACTICE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abandoned Tree Removal</td>
<td>10</td>
<td>AGRONOMIC</td>
</tr>
<tr>
<td>Abandoned Well Closure</td>
<td>1</td>
<td>DESIGN</td>
</tr>
<tr>
<td>Agrichemical Containment and Mixing Facility</td>
<td>10</td>
<td>DESIGN</td>
</tr>
<tr>
<td>Agrichemical Handling Facility</td>
<td>10</td>
<td>DESIGN</td>
</tr>
<tr>
<td>Agricultural Pond Restoration/Repair</td>
<td>10</td>
<td>DESIGN</td>
</tr>
<tr>
<td>Agricultural Road Repair/Stabilization</td>
<td>10</td>
<td>DESIGN</td>
</tr>
<tr>
<td>Agricultural Water Collection System</td>
<td>10</td>
<td>DESIGN</td>
</tr>
<tr>
<td>All-Season Agricultural Access</td>
<td>10</td>
<td>DESIGN</td>
</tr>
<tr>
<td>Backflow Prevention System (Chemigation or Fertigation)</td>
<td>10</td>
<td>DESIGN</td>
</tr>
<tr>
<td>Closure of Abandoned Waste Impoundment</td>
<td>10</td>
<td>DESIGN</td>
</tr>
<tr>
<td>Concentrated Nutrient Source Management System</td>
<td>10</td>
<td>DESIGN</td>
</tr>
<tr>
<td>Conservation Cover</td>
<td>6</td>
<td>AGRONOMIC</td>
</tr>
<tr>
<td>Constructed Wetland for Land Application</td>
<td>10</td>
<td>DESIGN</td>
</tr>
<tr>
<td>Cover Crops</td>
<td>1</td>
<td>AGRONOMIC</td>
</tr>
<tr>
<td>Critical Area Planting</td>
<td>10</td>
<td>AGRONOMIC</td>
</tr>
<tr>
<td>Cropland Conversion</td>
<td>10</td>
<td>AGRONOMIC</td>
</tr>
<tr>
<td>Diversion</td>
<td>10</td>
<td>DESIGN</td>
</tr>
<tr>
<td>Drystack</td>
<td>10</td>
<td>DESIGN</td>
</tr>
<tr>
<td>Feeding/Waste Storage Structure</td>
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<td>DESIGN</td>
</tr>
<tr>
<td>Field Border</td>
<td>10</td>
<td>AGRONOMIC</td>
</tr>
<tr>
<td>Filter Strip</td>
<td>10</td>
<td>AGRONOMIC</td>
</tr>
<tr>
<td>Grade Stabilization Structure</td>
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<td>DESIGN</td>
</tr>
<tr>
<td>Grassed Waterway</td>
<td>10</td>
<td>DESIGN</td>
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<tr>
<td>Heavy Use Area Protection</td>
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<td>DESIGN</td>
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<td>Insect Control System</td>
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<td>Lagoon Biosolids Removal Practice</td>
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<td>Land Smoothing</td>
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<td>Livestock Exclusion Fence</td>
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<tr>
<td>Livestock Feeding Area</td>
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<tr>
<td>Livestock Mortality Management System - Incinerator</td>
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</tr>
<tr>
<td>Livestock Mortality Management System - Other Systems</td>
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<td>Manure Composting Facility</td>
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</tr>
<tr>
<td>PRACTICE</td>
<td>MINIMUM LIFE EXPECTANCY (years)</td>
<td>PRACTICE TYPE</td>
</tr>
<tr>
<td>----------------------------------------------------------------</td>
<td>---------------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Manure/Litter Transportation Incentive</td>
<td>1</td>
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<tr>
<td>Micro-Irrigation System</td>
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<tr>
<td>Nutrient Management</td>
<td>3</td>
<td>AGRONOMIC</td>
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<tr>
<td>Odor Management System</td>
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<tr>
<td>Pasture Renovation</td>
<td>10</td>
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<tr>
<td>Pastureland Conversion</td>
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<td>AGRONOMIC</td>
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<tr>
<td>Portable Agrichemical Mixing Station</td>
<td>5</td>
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<tr>
<td>Precision Agrichemical Application</td>
<td>5</td>
<td>AGRONOMIC</td>
</tr>
<tr>
<td>Precision Nutrient Management</td>
<td>3</td>
<td>AGRONOMIC</td>
</tr>
<tr>
<td>Prescribed Grazing</td>
<td>3</td>
<td>AGRONOMIC</td>
</tr>
<tr>
<td>Residue and Tillage Management</td>
<td>1 to 3</td>
<td>AGRONOMIC</td>
</tr>
<tr>
<td>Retrofit of On-going Animal Operations</td>
<td>10</td>
<td>DESIGN</td>
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<tr>
<td>Riparian Buffer</td>
<td>10</td>
<td>AGRONOMIC</td>
</tr>
<tr>
<td>Rock-lined Waterway or Outlet</td>
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<td>DESIGN</td>
</tr>
<tr>
<td>Rooftop Runoff Management System</td>
<td>10</td>
<td>DESIGN</td>
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<tr>
<td>Sediment Control Basin</td>
<td>10</td>
<td>DESIGN</td>
</tr>
<tr>
<td>Sod-based Rotation</td>
<td>3, 4 or 5</td>
<td>AGRONOMIC</td>
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<tr>
<td>Solids Separation from Tank-Based Aquaculture Production</td>
<td>10</td>
<td>DESIGN</td>
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<td>Spring Development</td>
<td>10</td>
<td>DESIGN</td>
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<tr>
<td>Stock Trail and Walkway</td>
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<td>DESIGN</td>
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<tr>
<td>Storm Water Management System</td>
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<td>DESIGN</td>
</tr>
<tr>
<td>Stream Crossing</td>
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<td>DESIGN</td>
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<tr>
<td>Stream Protection Well</td>
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<tr>
<td>Stream Restoration</td>
<td>10</td>
<td>DESIGN</td>
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<tr>
<td>Streambank and Shoreline Protection</td>
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<td>DESIGN</td>
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<tr>
<td>Stripcropping</td>
<td>5</td>
<td>AGRONOMIC</td>
</tr>
<tr>
<td>Terrace</td>
<td>10</td>
<td>DESIGN</td>
</tr>
<tr>
<td>Trough or Tank</td>
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<td>DESIGN</td>
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<tr>
<td>Waste Application System</td>
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<td>Waste Storage Pond</td>
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<td>Waste Treatment Lagoon</td>
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<tr>
<td>Water Control Structure</td>
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<td>DESIGN</td>
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<tr>
<td>Wetlands Restoration System</td>
<td>10</td>
<td>DESIGN</td>
</tr>
</tbody>
</table>
BEST MANAGEMENT PRACTICE DEFINITIONS

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

**Sediment and Nutrient Management Practices**

(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).

**Stream Protection Management Practices**

(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.
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.

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

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.

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

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

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

Waste Management Practices

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.

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.

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.

Dry stack: A fabricated structure for temporary storage of animal waste.

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 practice:** 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.
### ABANDONED TREE REMOVAL

#### PRACTICE DESCRIPTION

<table>
<thead>
<tr>
<th>Code</th>
<th>Practice</th>
<th>Controlling Factor</th>
<th>Units</th>
<th>Job Class I</th>
<th>Job Class II</th>
<th>Job Class III</th>
<th>Job Class IV</th>
<th>Job Class V</th>
</tr>
</thead>
<tbody>
<tr>
<td>327-ATR</td>
<td>Abandoned Tree Removal</td>
<td>Purpose</td>
<td>Type</td>
<td>All</td>
<td></td>
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</tr>
</tbody>
</table>

#### PREREQUISITES

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.

#### PRACTICE PHASES

<table>
<thead>
<tr>
<th>INVENTORY AND EVALUATION (I&amp;E)</th>
<th>DESIGN (D)</th>
<th>CONSTRUCTION &amp; CERTIFICATION (C&amp;C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Independently complete a minimum of two I&amp;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.</td>
<td>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.</td>
<td>1. Independently complete a minimum of two construction/certification &quot;check-outs&quot; for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies.</td>
</tr>
<tr>
<td>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).</td>
<td>2. Independently fulfill/completion the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&amp;M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s).</td>
<td>2. Independently fulfill/completion the “Installation” &amp; “Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s).</td>
</tr>
<tr>
<td>3. Complete the appropriate &quot;CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS &amp; 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.</td>
<td>3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.</td>
<td>3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (&quot;Conservation Practice Certification Form&quot;) or comparable form.</td>
</tr>
</tbody>
</table>

#### PRACTICE KNOWLEDGE, SKILLS, ABILITIES (KSAs)

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.
<table>
<thead>
<tr>
<th>PRACTICE DESCRIPTION</th>
<th>JOB CLASSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>Practice</td>
</tr>
<tr>
<td>560</td>
<td>Agricultural Road Repair / Stabilization</td>
</tr>
</tbody>
</table>

### 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 for to receive JAA.
2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies.

**Practice Knowledge, Skills, Abilities (KSAs)**

2. Ability to Assess site soil conditions and prescribe treatment and the appropriate vegetation.
4. 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)**

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/completion 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.

**CONSTRUCTION & CERTIFICATION (C&C)**

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/completion 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.
## ALL-SEASON AGRICULTURAL ACCESS

### PRACTICE DESCRIPTION

<table>
<thead>
<tr>
<th>Code</th>
<th>Practice</th>
<th>Controlling Factor</th>
<th>Units</th>
<th>Job Class I</th>
<th>Job Class II</th>
<th>Job Class III</th>
<th>Job Class IV</th>
<th>Job Class V</th>
</tr>
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<tbody>
<tr>
<td>561-ASAA</td>
<td>All-Season Agricultural Access</td>
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</tr>
</tbody>
</table>

### JOB CLASSES

### 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 for to receive JAA.
2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies.

#### Practice Knowledge, Skills, Abilities (KSAs)

2. Ability to Assess site soil conditions and prescribe treatment and the appropriate vegetation.
4. Development of as-built or "red-line" drawings (NEM Part 512, Construction, Subpart F – As-buils, §12.50 through §12.52).
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)

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 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 sheets.

#### CONSTRUCTION & CERTIFICATION (C&C)

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.
## BASEFLOW INTERCEPTOR (STREAMSIDE PICKUP)

### PRACTICE DESCRIPTION

<table>
<thead>
<tr>
<th>Code</th>
<th>Practice</th>
<th>Units</th>
<th>Job Class I</th>
<th>Job Class II</th>
<th>Job Class III</th>
<th>Job Class IV</th>
<th>Job Class V</th>
</tr>
</thead>
<tbody>
<tr>
<td>574-BI-AW</td>
<td>Baseflow Interceptor (streamside pickup)</td>
<td>Purpose</td>
<td>Type</td>
<td>All</td>
<td></td>
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<td></td>
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</table>

### 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 for to receive JAA.
2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies.

#### Practice Knowledge, Skills, Abilities (KSAs)
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-buils, 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)
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 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.

#### CONSTRUCTION & CERTIFICATION (C&C)
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.
## CONSERVATION COVER

<table>
<thead>
<tr>
<th>PRACTICE DESCRIPTION</th>
<th>JOB CLASSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>Practice</td>
</tr>
<tr>
<td>327</td>
<td>Conservation Cover</td>
</tr>
</tbody>
</table>

### TECHNICAL COMPETENCY REQUIREMENTS

<table>
<thead>
<tr>
<th>Prerequisites</th>
<th>Practice Knowledge, Skills, Abilities (KSAs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>1. Knowledge of NC's Crops and Cropping Systems.</td>
</tr>
<tr>
<td>2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard and BMP policies.</td>
<td>2. Knowledge of Soil Health and Management.</td>
</tr>
</tbody>
</table>

### 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.

#### 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.

#### CONSTRUCTION & CERTIFICATION (C&C)

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. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form.

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. 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.

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

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Practice</th>
<th>Controlling Factor</th>
<th>Units</th>
<th>Job Class I</th>
<th>Job Class II</th>
<th>Job Class III</th>
<th>Job Class IV</th>
<th>Job Class V</th>
</tr>
</thead>
<tbody>
<tr>
<td>340</td>
<td>Cover Crop</td>
<td>Species Planted (Species Mix)</td>
<td>Number</td>
<td>All</td>
<td></td>
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</tbody>
</table>

### 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.

### Practice Knowledge, Skills, Abilities (KSAs)
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)
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 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.

#### CONSTRUCTION & CERTIFICATION (C&C)
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.
**CROP RESIDUE MANAGEMENT**

**PRACTICE DESCRIPTION**

<table>
<thead>
<tr>
<th>Code</th>
<th>Practice</th>
<th>Controlling Factor</th>
<th>Units</th>
<th>Job Class I</th>
<th>Job Class II</th>
<th>Job Class III</th>
<th>Job Class IV</th>
<th>Job Class V</th>
</tr>
</thead>
<tbody>
<tr>
<td>340-CRM</td>
<td>Crop Residue Management</td>
<td>Species Planted (Species Mix)</td>
<td>Number</td>
<td>All</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**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.

**Practice Knowledge, Skills, Abilities (KSAs)**

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)**

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 (e.g., 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/completing 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.

**CONSTRUCTION & CERTIFICATION (C&C)**

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.
<table>
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<tr>
<th>CODE</th>
<th>PRACTICE DESCRIPTION</th>
<th>JOB CLASSES</th>
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<tbody>
<tr>
<td>S12</td>
<td>Cropland Conversion</td>
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</table>

<table>
<thead>
<tr>
<th>Prerequisites</th>
<th>Practice Knowledge, Skills, Abilities (KSAs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>1. Knowledge of adapted forage plants for the ecological sites/forage suitability groups in the area of service.</td>
</tr>
<tr>
<td>2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies.</td>
<td>2. Skill in planning the planting plans and educating land users in the operation and maintenance for the practice/operation/site.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>INVENTORY AND EVALUATION (I&amp;E)</th>
<th>DESIGN (D)</th>
<th>CONSTRUCTION &amp; CERTIFICATION (C&amp;C)</th>
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<tbody>
<tr>
<td>1. Independently complete a minimum of two I&amp;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.</td>
<td>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.</td>
<td>1. Independently complete a minimum of two construction/certification &quot;check-outs&quot; for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies.</td>
</tr>
<tr>
<td>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).</td>
<td>2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&amp;M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s).</td>
<td>2. Independently fulfill/complete the “Installation” &amp; “Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s).</td>
</tr>
<tr>
<td>3. Complete the appropriate &quot;CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS &amp; 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.</td>
<td>3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.</td>
<td>3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (&quot;Conservation Practice Certification Form&quot;) or comparable form.</td>
</tr>
<tr>
<td>PRACITCE DESCRIPTION</td>
<td>JOB CLASSES</td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Practice</td>
<td>Controlling Factor</td>
</tr>
<tr>
<td>362</td>
<td>Diversion</td>
<td>Purpose</td>
</tr>
</tbody>
</table>

**TECHNICAL COMPETENCY REQUIREMENTS**

<table>
<thead>
<tr>
<th>Prerequisites</th>
<th>Practice Knowledge, Skills, Abilities (KSAs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>1. Knowledge of NRCS Construction Specification 21 - Excavation and 23 - Earthfill.</td>
</tr>
<tr>
<td>2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard and BMP policies.</td>
<td>2. Ability to Assess site soil conditions and prescribe treatment and the appropriate vegetation.</td>
</tr>
<tr>
<td>3. Capability to complete &quot;The NRCS-CPA-52 Environmental Evaluation Worksheet&quot; or comparable site assessment form.</td>
<td>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.</td>
</tr>
<tr>
<td>4. Working knowledge of Web Soil Survey, Suitabilities and Limitations Ratings.</td>
<td>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).</td>
</tr>
<tr>
<td>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).</td>
<td></td>
</tr>
</tbody>
</table>

**PRACTICE PHASES**

<table>
<thead>
<tr>
<th>INVENTORY AND EVALUATION (I&amp;E)</th>
<th>DESIGN (D)</th>
<th>CONSTRUCTION &amp; CERTIFICATION (C&amp;C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Independently complete a minimum of two I&amp;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.</td>
<td>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.</td>
<td>1. Independently complete a minimum of two construction/certification &quot;check-outs&quot; for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies.</td>
</tr>
<tr>
<td>2. Use the latest NRCS-CPA-52 (Sections A thru F) 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).</td>
<td>2. Independently fulfill/completes the “Design” deliverables in accordance with the most recent eFOGT practice Statement of Work (SOW), including O&amp;M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s).</td>
<td>2. Independently fulfill/completes the &quot;Installation&quot; &amp; &quot;Check Out&quot; deliverables in accordance with the most recent eFOGT practice Statement of Work (SOW) or comparable SWCC form(s).</td>
</tr>
<tr>
<td>3. Complete the appropriate &quot;CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS &amp; SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOGT, 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.</td>
<td>3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.</td>
<td>3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (&quot;Conservation Practice Certification Form&quot;) or comparable form.</td>
</tr>
</tbody>
</table>
**FIELD BORDER**

<table>
<thead>
<tr>
<th>PRACTICE DESCRIPTION</th>
<th>JOB CLASSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>Practice</td>
</tr>
<tr>
<td>386</td>
<td>Field Border</td>
</tr>
</tbody>
</table>

**TECHNICAL COMPETENCY REQUIREMENTS**

<table>
<thead>
<tr>
<th>Prerequisites</th>
<th>Practice Knowledge, Skills, Abilities (KSAs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>1. Knowledge of Vegetation Appropriate for Field Borders.</td>
</tr>
<tr>
<td>2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies.</td>
<td>2. Ability to Assess Site Conditions to Plan and Apply Field Borders.</td>
</tr>
</tbody>
</table>

**PRACTICE PHASES**

<table>
<thead>
<tr>
<th>INVENTORY AND EVALUATION (I&amp;E)</th>
<th>DESIGN (D)</th>
<th>CONSTRUCTION &amp; CERTIFICATION (C&amp;C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Independently complete a minimum of two I&amp;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.</td>
<td>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.</td>
<td>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.</td>
</tr>
<tr>
<td>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).</td>
<td>2. Independently fulfill/completing the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&amp;M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s).</td>
<td>2. Independently fulfill/complete the “Installation” &amp; “Check Out” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s).</td>
</tr>
<tr>
<td>3. Complete the appropriate &quot;CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS &amp; 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 soil investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.</td>
<td>3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.</td>
<td>3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (&quot;Conservation Practice Certification Form&quot;) or comparable form.</td>
</tr>
</tbody>
</table>
## FILTER STRIP

<table>
<thead>
<tr>
<th>PRACTICE DESCRIPTION</th>
<th>JOB CLASSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>Practice</td>
</tr>
<tr>
<td>393</td>
<td>Filter Strip</td>
</tr>
</tbody>
</table>

### 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.
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.

#### Practice Knowledge, Skills, Abilities (KSAs)
1. Knowledge of Vegetation Appropriate for Filter Strips.
2. Ability to Assess Site Conditions to Plan and Apply Filter Strips.
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)
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 (e.g. 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/completion 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).

#### Construction & Certification (C&C)
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/completion 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.
<table>
<thead>
<tr>
<th>PRACTICE DESCRIPTION</th>
<th>JOB CLASSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>Practice</td>
</tr>
<tr>
<td>561</td>
<td>Heavy Use Area Protection</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TECHNICAL COMPETENCY REQUIREMENTS</th>
</tr>
</thead>
</table>

**Prerequisites**

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.

**Practice Knowledge, Skills, Abilities (KSAs)**

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_GO_Heavy_Use_Area_ProtectionFeeding_Site_Assessment_Tool_v_7_2013.xls 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)**

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 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.

**CONSTRUCTION & CERTIFICATION (C&C)**

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.
# LIVESTOCK EXCLUSION FENCE

<table>
<thead>
<tr>
<th>Practice Description</th>
<th>Job Classes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PREREQUISITES</strong></td>
<td></td>
</tr>
<tr>
<td><strong>PRACTICE PHASES</strong></td>
<td></td>
</tr>
<tr>
<td><strong>INVENTORY AND EVALUATION (I&amp;E)</strong></td>
<td><strong>DESIGN (D)</strong></td>
</tr>
<tr>
<td>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.</td>
<td>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.</td>
</tr>
<tr>
<td>2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies.</td>
<td>2. Independently fulfill/complete the “Design” deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&amp;M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s).</td>
</tr>
<tr>
<td>3. Working knowledge using the NC NRCS Fence Job Sheet Application.</td>
<td>3. Complete the appropriate &quot;CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS &amp; 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.</td>
</tr>
</tbody>
</table>

**TECHNICAL COMPETENCY REQUIREMENTS**

<table>
<thead>
<tr>
<th>Practice Knowledge, Skills, Abilities (KSAs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Knowledge of livestock management for grazing lands of the locale.</td>
</tr>
<tr>
<td>3. Knowledge of wildlife relationships with fence in the locale.</td>
</tr>
<tr>
<td>4. Knowledge of grazing management issues in the locale.</td>
</tr>
</tbody>
</table>
# Long Term No-Till

## Practice Description

<table>
<thead>
<tr>
<th>Code</th>
<th>Practice</th>
<th>Controlling Factor</th>
<th>Units</th>
<th>Job Class I</th>
<th>Job Class II</th>
<th>Job Class III</th>
<th>Job Class IV</th>
<th>Job Class V</th>
</tr>
</thead>
<tbody>
<tr>
<td>329</td>
<td>Long Term No-Till</td>
<td>Crop, Production Method</td>
<td>Type</td>
<td>All</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## 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 standards, and BMP policies.


**Practice Knowledge, Skills, Abilities (KSAs)**


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.


7. Knowledge of Soils and Soil Management for No Till.

## 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 (e.g., 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 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).

### Construction & Certification (C&C)

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.

---

*NRCS-CPA-52 Form*: National Resources Conservation Service - Conservation Planning Assessment Form - Version 2 (52 Form).

*ArcMap, Toolkit, or Conservation Desktop*: Geographic Information System (GIS) software tools for mapping and data management.


*eFOTG*: Environmental Farming Opportunities Tool Guide.

*O&M*: Operations and Maintenance.

*Job Sheet(s)*: Detailed instructions or specifications for completing tasks.

*Implementation Requirements*: Guidelines for proper implementation and maintenance of conservation practices.

*Conservation Practice Certification Form*: An official form used to document the successful completion of conservation practice installation and certification.
# Nutrient Management

## Practice Description

<table>
<thead>
<tr>
<th>Code</th>
<th>Practice</th>
<th>Controlling Factor</th>
<th>Units</th>
<th>Job Class I</th>
<th>Job Class II</th>
<th>Job Class III</th>
<th>Job Class IV</th>
<th>Job Class V</th>
</tr>
</thead>
<tbody>
<tr>
<td>590-NM</td>
<td>Nutrient Management</td>
<td>Nutrient source, application method and/or special</td>
<td>Type</td>
<td>All</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Technical Competency Requirements

### Pre-requisites

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.
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 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.
# NUTRIENT SCAVENGER COVER CROP

<table>
<thead>
<tr>
<th>PRACTICE DESCRIPTION</th>
<th>JOB CLASSES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Code</strong></td>
<td><strong>Practice</strong></td>
</tr>
<tr>
<td>340-NSCC</td>
<td>Nutrient Scavenger Cover Crop</td>
</tr>
</tbody>
</table>

## TECHNICAL COMPETENCY REQUIREMENTS

<table>
<thead>
<tr>
<th>Prerequisites</th>
<th>Practice Knowledge, Skills, Abilities (KSAs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>1. Knowledge of NC’s Crops and Cropping Systems.</td>
</tr>
<tr>
<td>2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standards and BMP policies.</td>
<td>2. Knowledge of Soil Health and Management.</td>
</tr>
<tr>
<td></td>
<td>4. Knowledge of Tillage Systems used in NC.</td>
</tr>
<tr>
<td></td>
<td>5. Knowledge of Adaptive Species of Cover Crops for Planned Purposes in NC.</td>
</tr>
<tr>
<td></td>
<td>6. Knowledge of Approved Planting Dates, Times and Methods of Termination for Cover Crops.</td>
</tr>
<tr>
<td></td>
<td>7. Working knowledge of &quot;Managing Cover Crops Profitability&quot;.</td>
</tr>
<tr>
<td></td>
<td>8. Ability to select species based on the client objectives.</td>
</tr>
</tbody>
</table>

## PRACTICE PHASES

### INVENTORY AND EVALUATION (I&E)

- 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.
- 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).
- Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EOTG, 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)

- 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.
- Independently fulfill/completion the “Design” deliverables in accordance with the most recent eOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s).
- Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.

### CONSTRUCTION & CERTIFICATION (C&C)

- 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.
- Independently fulfill/complete the “Installation” & “Check Out” deliverables in accordance with the most recent eOTG practice Statement of Work (SOW) or comparable SWCC form(s).
- Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form ("Conservation Practice Certification Form") or comparable form.
## ODOR MANAGEMENT SYSTEM

<table>
<thead>
<tr>
<th>PRACTICE DESCRIPTION</th>
<th>JOB CLASSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>Practice</td>
</tr>
<tr>
<td>380</td>
<td>Odor Management System</td>
</tr>
</tbody>
</table>

### TECHNICAL COMPETENCY REQUIREMENTS

**Prerequisites**

1. Empolyee 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.
4. When applicable, appropriate JAA for supporting practices (i.e. Tree/Shrub Site Preparation (PC490) and Tree/Shrub Establishment (PC612)).

**Practice Knowledge, Skills, Abilities (KSAs)**

1. Knowledge of windbreak/shelterbelt design and function, including snow management if applicable.
2. Knowledge of forest ecology and management for the local area.
4. Knowledge of silvics of tree species to be established.

### 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/completion 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.

#### CONSTRUCTION & CERTIFICATION (C&C)

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/completion 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.
### PASTURE RENOVATION

<table>
<thead>
<tr>
<th>Code</th>
<th>Practice</th>
<th>Controlling Factor</th>
<th>Units</th>
<th>Job Class I</th>
<th>Job Class II</th>
<th>Job Class III</th>
<th>Job Class IV</th>
<th>Job Class V</th>
</tr>
</thead>
<tbody>
<tr>
<td>512-PR</td>
<td>Pasture Renovation</td>
<td>Forage species, class or mix</td>
<td>Type</td>
<td>All</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 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.

**Practice Knowledge, Skills, Abilities (KSAs)**

1. Knowledge of adapted forage plants for the ecological sites/forage suitability groups in the area of service.
2. Skill in planning the planting plants and educating land users in the operation and maintenance for the practice/operation/site.

#### PRACTICE PHASES

**INVENTORY AND EVALUATION (I&E)**

1. Independently complete a minimum of two 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 separate Planning Land Units (PLU).
3. Complete the 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 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.

**CONSTRUCTION & CERTIFICATION (C&C)**

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.
# Pastureland Conversion

## Practice Description

<table>
<thead>
<tr>
<th>Code</th>
<th>Practice</th>
<th>Controlling Factor</th>
<th>Units</th>
<th>Job Class I</th>
<th>Job Class II</th>
<th>Job Class III</th>
<th>Job Class IV</th>
<th>Job Class V</th>
</tr>
</thead>
<tbody>
<tr>
<td>612</td>
<td>Pastureland Conversion</td>
<td>Site Sensitivity-Soil suitability rating for potential seedling mortality</td>
<td>WSS Rating</td>
<td>All</td>
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<td></td>
</tr>
</tbody>
</table>

## Technical Competency Requirements

<table>
<thead>
<tr>
<th>Prerequisites</th>
<th>Practice Knowledge, Skills, Abilities (KSA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>1. Knowledge of forest ecology and management for the local area.</td>
</tr>
<tr>
<td>2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard and BMP policies.</td>
<td>2. Knowledge of silvics of tree species to be established.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>5. Working knowledge of Forestry BMPs.</td>
</tr>
</tbody>
</table>

## Practice Phases

### I&E (Inventory and Evaluation)

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 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).

### Construction & Certification (C&C)

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.
### PRECISION AGRICHEMICAL APPLICATION

#### PRACTICE DESCRIPTION

<table>
<thead>
<tr>
<th>Code</th>
<th>Practice</th>
<th>Controlling Factor</th>
<th>Units</th>
<th>Job Class I</th>
<th>Job Class II</th>
<th>Job Class III</th>
<th>Job Class IV</th>
<th>Job Class V</th>
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</thead>
<tbody>
<tr>
<td>590-PAA</td>
<td>Precision Agrichemical Application</td>
<td>Purpose</td>
<td>Type</td>
<td>All</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

#### 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 standards, and BMP policies.
3. 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; 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, ...).

**Prerequisite Practice Knowledge, Skills, Abilities (KSAs)**

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.
7. Completion of the NCSU Nutrient Management Planning Course.
8. Ability to Perform Nitrogen and Phosphorus Risk Assessments using NCAKANAT (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 assessment 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.
3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.
4. Reuse of the "Conservation Practice Certification Form" for Certification.

**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.
## PRECISION NUTRIENT MANAGEMENT

<table>
<thead>
<tr>
<th>Code</th>
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<th>Units</th>
<th>Job Class I</th>
<th>Job Class II</th>
<th>Job Class III</th>
<th>Job Class IV</th>
<th>Job Class V</th>
</tr>
</thead>
<tbody>
<tr>
<td>590-PNM</td>
<td>Precision Nutrient Management</td>
<td>Nutrient source, application method and/or special condition</td>
<td>Type</td>
<td>All</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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.
5. NC State 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)**

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.
7. Completion of the NC State 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.

- [ ] 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.
PRACTICE DESCRIPTION

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<tr>
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<th>Job Class I</th>
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<th>Job Class III</th>
<th>Job Class IV</th>
<th>Job Class V</th>
</tr>
</thead>
<tbody>
<tr>
<td>528</td>
<td>Prescribed Grazing</td>
<td>Pasture Only - Area</td>
<td>Acres</td>
<td>All</td>
<td>All</td>
<td>All</td>
<td>All</td>
<td>All</td>
</tr>
</tbody>
</table>

**PRESCRIBED GRAZING**

**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.


**Practice Knowledge, Skills, Abilities (KSAs)**

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)**

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 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.

**CONSTRUCTION & CERTIFICATION (C&C)**

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.
## 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 for to receive JAA.
2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies.

### Practice Knowledge, Skills, Abilities (KSAs)

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, S12.50 through S12.52).
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)

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/completion 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.

#### CONSTRUCTION & CERTIFICATION (C&C)

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/completion 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.
## SOD-BASED ROTATION

### Practice Description

<table>
<thead>
<tr>
<th>Code</th>
<th>Practice</th>
<th>Controlling Factor</th>
<th>Units</th>
<th>Type</th>
<th>Job Class I</th>
<th>Job Class II</th>
<th>Job Class III</th>
<th>Job Class IV</th>
<th>Job Class V</th>
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<tbody>
<tr>
<td>328</td>
<td>Sod-based Rotation</td>
<td>Crop, Production Method</td>
<td>Type</td>
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<td>1</td>
<td>2</td>
<td>3</td>
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</table>

### 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.

**Practice Knowledge, Skills, Abilities (KSAs)**

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.

### 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. Independence fulfills/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.

**Construction & Certification (C&C)**

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.
### PREREQUISITES

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.

### PRACTICE PHASES

<table>
<thead>
<tr>
<th>INVENTORY AND EVALUATION (I&amp;E)</th>
<th>DESIGN (D)</th>
<th>CONSTRUCTION &amp; CERTIFICATION (C&amp;C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Independently complete a minimum of two I&amp;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, Conservation Desktop) to develop Conservation Plan Maps.</td>
<td>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.</td>
<td>1. Independently complete a minimum of two construction/certification &quot;check-outs&quot; for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies.</td>
</tr>
<tr>
<td>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).</td>
<td>2. Independently fulfill/complete the &quot;Design&quot; deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&amp;M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s).</td>
<td>2. Independently fulfill/complete the &quot;Installation&quot; &amp; &quot;Check Out&quot; deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s).</td>
</tr>
<tr>
<td>3. Complete the appropriate &quot;CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS &amp; SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST&quot; (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.</td>
<td>3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.</td>
<td>3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form (&quot;Conservation Practice Certification Form&quot;) or comparable form.</td>
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## Stock Trails and Walkways

### Practice Description

<table>
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<th>Code</th>
<th>Practice</th>
<th>Controlling Factor</th>
<th>Units</th>
<th>Job Class I</th>
<th>Job Class II</th>
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<tr>
<td>575</td>
<td>Stock Trails and Walkways</td>
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<td>All</td>
<td>All</td>
<td>All</td>
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</tbody>
</table>

### Technical Competency Requirements

| 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. |

### Prerequisites

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)

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.
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 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.

#### Construction & Certification (C&C)

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.
5. Ability to Assess site soil conditions and prescribe treatment and the appropriate vegetation.
6. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06).
7. Development of as-built or "red-line" drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52).
8. 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).
### STRIPCROPPING

#### PREREQUISITES

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).


#### 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.


**Practice Knowledge, Skills, Abilities (KSAs)**

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.

#### PRACTICE PHASES

**INVENTORY AND EVALUATION (I&E)**

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. 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 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.

**CONSTRUCTION & CERTIFICATION (C&C)**

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.
<table>
<thead>
<tr>
<th>Code</th>
<th>Practice</th>
<th>Controlling Factor</th>
<th>Units</th>
<th>Job Class I</th>
<th>Job Class II</th>
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### 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 for to receive JAA.
2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies.

#### Practice Knowledge, Skills, Abilities (KSAs)
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-buils, 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)
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 concerns, 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 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.

#### CONSTRUCTION & CERTIFICATION (C&C)
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.
## TROUGH OR TANK

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<th>PRACTICE DESCRIPTION</th>
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<td>Trough or Tank</td>
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### 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 for to receive JAA.
2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard and BMP policies.

#### Practice Knowledge, Skills, Abilities (KSAs)

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, S12.50 through S12.52).
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, S05.3).

### 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 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.

#### CONSTRUCTION & CERTIFICATION (C&C)

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-YEAR CONSERVATION TILLAGE SYSTEM

#### PRACTICE DESCRIPTION

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<tr>
<th>Code</th>
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<th>Job Class I</th>
<th>Job Class II</th>
<th>Job Class III</th>
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<tr>
<td>329-CTS</td>
<td>3-Year Conservation Tillage System</td>
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<td>Type</td>
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</table>

#### 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.

**Practice Knowledge, Skills, Abilities (KSAs)**

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.
7. Knowledge of Soils and Soil Management for No Till.

#### 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/completion 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).

**CONSTRUCTION & CERTIFICATION (C&C)**

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/completion 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.