

Lagoon Biosolids Removal

PRACTICE DESCRIPTION				JOB CLASSES				
Code	Practice	Controlling Factor	Units	Job Class I	Job Class II	Job Class III	Job Class IV	Job Class V
590-LBR	Biosolids Removal	Nutrient Source, Application Method and/or Special Conditions	Type	All				
TECHNICAL COMPETENCY REQUIREMENTS								
Prerequisites				Practice Knowledge, Skills, Abilities (KSAs)				
<p>1. Employees must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for the highest level of complexity for which they wish to receive JAA.</p> <p>2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies.</p> <p>3. Working Knowledge of Web Soil Survey, Suitabilities and Limitations Ratings</p> <p>4. Working knowledge in the analysis and interpretation of soil test and waste analysis results.</p> <p>5. NCSU Nutrient Management in NC Course which includes: (1) the online prerequisite; (2) 5-days of nutrient management-related course work, including PLAT, RUSLE2 and software trainings; and (3) NC Rules and Regulations Governing Animal Waste Management in NC training, along with a passing score on the exams given at the conclusion of each section.</p> <p>6. Working knowledge in the Agricultural Waste Management Field Handbook (Title 210, Part 651).</p> <p>7. JAA for Code 590, Nutrient Management</p>				<p>1. Ability to perform a sludge survey to determine volume estimates of biosolids removal.</p> <p>2. Ability to collect soil samples and interpret soil test reports for recommendations.</p> <p>3. Knowledge of NC's crops and cropping systems.</p> <p>4. Knowledge of tillage systems used in NC.</p> <p>5. Knowledge to assess the risk of nitrogen leaching loss, the nitrogen Leaching Index, obtained through use of current Soil Hydrologic Group (SHG)-based LI index maps in Section II of the NC FOTG OR RUSLE 2 field specific soil loss calculations.</p> <p>6. Ability to perform Nitrogen and Phosphorus Risk Assessments using NCANAT (NLEW+PLAT) in the NC Nutrient Management Planning Software.</p> <p>7. Ability to assess site soil conditions and prescribe treatment and the appropriate vegetation.</p> <p>8. Knowledge of manure characteristics and nutrient values.</p> <p>9. Ability to read, interpret, and use waste impoundment as-built designs to develop a removal plan.</p> <p>10. Skill for development of related computations and analyses to develop a biosolids removal plan and specifications including but not limited to geology, soil mechanics, hydraulics, structural design, vegetation, and soil bioengineering.</p> <p>11. Certification the installation meets applicable standards and specifications and is in compliance with</p>				
PRACTICE PHASES								
INVENTORY AND EVALUATION (I&E)			DESIGN (D)			CONSTRUCTION & CERTIFICATION (C&C)		
<p>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 of land application fields.</p> <p>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).</p> <p>3. Independently complete a minimum of two sludge surveys on separate Planning Land Units (PLU) to identify and document resource needs and concerns.</p> <p>4. Collect the appropriate Soil Samples and RUSLE field data on each land application field to receive animal waste to identify and document resource needs and concerns.</p>			<p>1. Independently complete a minimum of two Biosolids removal nutrient management plans on separate Planning Land Units (PLU) in accordance with the most recent NRCS 590 Standard and SWCC Lagoon Biosolids Removal BMP and Policies. Plans should include maps of application fields and associated setbacks, sludge survey information, soil samples, PLAT results, copper and zinc projections and narrative explaining biosolids removal methodology.</p> <p>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).</p> <p>3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form</p>			<p>1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP policy and NRCS 590 standard.</p> <p>2. Independently fulfill/complete the "Installation" & "Check Out" deliverables in accordance with the most recent eFOTG practice State of Work (SOW) or comparable SWCC forms(s).</p> <p>3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form ("Conservation Practice Certification Form") or Comparable form.</p>		