U.S. Department of Agriculture
Conservation Reserve Program CP22B, Denitrifying Bioreactor on Riparian Buffer
Documentation of Suitability and Feasibility Worksheet (Version 2.0 June 2018)

Name of Client:  
Client Phone Number: (        ) ______ - _________  
Client email:  
Farm Number:  
Tract Number:  
Field Number(s):  
Location Description:  
State:  
County:  

*Refer to the Worksheet Instructions for guidance on completing a Suitability and Feasibility Determination.

CP22B, Denitrifying Bioreactor on Riparian Buffer Practice Purpose: Improve water quality by reducing the nitrate-nitrogen content of subsurface agricultural drainage flow. Remove nutrients, sediment, organic matter, pesticides, and other pollutants from surface runoff and subsurface flow by deposition, absorption, plant uptake, denitrification, and other processes, and thereby reduce pollution and protect surface water and subsurface water quality while enhancing the ecosystem of the water body. Create shade to lower water temperature to improve habitat for aquatic organisms. Provide a source of detritus and large woody debris for aquatic organisms and habitat for wildlife.

Element #1 Site Conditions/Program Requirements
Identify if offer area meets CP22B site condition criteria by checking the following:

☐ Offer area is immediately adjacent and parallel to a qualifying water body for CP22B.  
   *Refer to Worksheet Instructions for definitions of qualifying water bodies for CP22B.
   ☐ Stream having perennial flow
   ☐ Stream having seasonal or intermittent flow
   ☐ Sinkhole or karst area
   ☐ Permanent water body such as lake or pond
   ☐ Wetland; permanently flooded
   ☐ Wetland; intermittently exposed
   ☐ Wetland; semi permanently flooded
   ☐ Wetland; seasonally flooded

☐ Offer does not exceed an average of 180 feet in width. (When the minimum design specification for water quality exceeds 180 feet, the minimum design is the maximum average width that may be enrolled. NRCS must document in writing the need for a minimum design in excess of 180 feet.)

☐ Offer is not less than 35 feet in width.

Current Cover Type in Offer Area: __________________________________________________________

Current Land Use in Offer Area: ____________________________________________________________

YES – All Site Conditions Referenced Above are Met  ☐ NO – Site Conditions Not Met

Element #2 Practice Needs
Is there a resource concern within the offer area that is targeted by CP22B per the practice purpose?
*Need determination for CP22B includes the identification of a need to reduce nitrate-nitrogen concentration in subsurface drainage flow. This practice does not apply to underground outlets from practices such as terraces, where the drainage source is primarily from surface inlets.
*A minimum of 1 “Water Quality Degradation” resource concern cause must be present in offer area to meet practice need.
*If existing cover is solving the resource concern(s) in the practice purpose, then the determination must be that the CP is not needed. Reference Worksheet Instructions for guidance on CRP contract re-enrollment.

Indicate which NRCS resource concern causes are present within the offer area:

☐ Water Quality Degradation: Excess nutrients in surface and ground waters
☐ Water Quality Degradation: Pesticides transported to surface and ground waters
☐ Water Quality Degradation: Excess pathogens and chemicals from manure, bio-solids or compost applications
☐ Water Quality Degradation: Excessive salts in surface and ground waters
☐ Water Quality Degradation: Petroleum, heavy metals and other pollutants transported to receiving waters
☐ Water Quality Degradation: Excessive sediment in surface waters
Water Quality Degradation: Elevated water temperature
☐ Inadequate Habitat for Fish and Wildlife: Habitat degradation

YES – Practice is Needed  NO – Practice Not Needed

**Element #3 Practice Feasibility**
Will the implementation of CP22B solve the resource concern(s) listed in the purpose per the practice purpose?
*Provide documentation to FSA if minimum design width exceeds 180 feet to address water quality per NRCS practice standard.

YES – Practice is Feasible  NO – Practice is Not Feasible

**Element #4 Practice Suitability**
Are the offered acres suitable for installation of the NRCS conservation practices needed to apply CP22B?
* Offer area must be determined suitable to establish and maintain trees. Land that is not suitable for tree plantings, as determined by NRCS or TSP, is not eligible to be enrolled in CRP as a riparian buffer.
* Excessive sheet, rill and gulley erosion must be controlled immediately adjacent and up-gradient of the buffer to meet suitability.
* Offer area must be determined suitable for the establishment and maintenance of NRCS practice standard Denitrifying Bioreactor (605).

YES – Practice is Suitable  NO – Practice is Not Suitable

**Suitability and Feasibility Determination Findings:**

- The location and size of the offered acres as shown on the CRP-2C map meet all four elements of the Suitability and Feasibility determination.
- The offer **DOES NOT** meet the Suitability and Feasibility requirements. Check the element(s) that were not met.
  - Site Conditions/Program Requirements
  - Practice Needs
  - Practice Feasibility
  - Practice Suitability
- Modification of the offer (either location, size or practice) would result in meeting all four S&F determination elements. See documentation.

**Documentation:**
Provide information supporting the determination of each element in this section.
Conservation Planner has attached or provided to FSA (check all that applies):

- Notes on form NRCS CPA-6
- Photo’s
- Other: ______________________
- Map
- Electronic File with GPS Points or GIS Shapefile

Field Visit Completed by: ______________________ Date: __________ Date returned to FSA: __________

Suitability and Feasibility Determination Completed by: __________________________