## U.S. Department of Agriculture

### Conservation Reserve Program CP21B, Denitrifying Bioreactor on Filter Strips

**Documentation of Suitability and Feasibility Worksheet (Version 2.0 June 2018)**

<table>
<thead>
<tr>
<th>Name of Client:</th>
<th>Client Phone Number: (        ) ______ - _________</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Client email:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Farm Number:</th>
<th>Field Number(s):</th>
<th>Location Description:</th>
<th>State:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tract Number:</td>
<td></td>
<td></td>
<td>County:</td>
</tr>
</tbody>
</table>

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

### CP21B, Denitrifying Bioreactor on Filter Strips 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.

#### Element #1 Site Conditions/Program Requirements

Identify if offer area meets CP21B site condition criteria by checking the following:

- Offer area is immediately adjacent and parallel to a qualifying water body for CP21B as indicated below.
  *Refer to Worksheet Instructions for definitions of qualifying water bodies for CP21B.
- Stream having perennial flow
- Stream having seasonal or intermittent flow
- Sinkhole or karst area
- Permanent water body such as lake or pond
- Offer does not exceed an average of 120 feet in width. (When the minimum design specification for water quality exceeds 120 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 120 feet.)
- Offer is not less than 20 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 CP21B per the practice purpose?

*Need determination for CP21B 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
- Inadequate Habitat for Fish and Wildlife: Habitat degradation
Element #3 Practice Feasibility
Will the implementation of CP21B solve or significantly improve the resource concern(s) listed in the purpose per the practice purpose?
*Provide documentation to FSA if minimum design width exceeds 120 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 CP21B?
* 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  ☐ Map
☐ Photo’s  ☐ Electronic File with GPS Points or GIS Shapefile
☐ Other: __________________________

Field Visit Completed by: __________________________ Date: ___________ Date returned to FSA: ________

Suitability and Feasibility Determination Completed by: ________________________________