**RICHARD MOWERY CERTIFICATION REQUEST REQUIRED DOCUMENTATION**

Mr. Mowery has a cash grain operation located in Clinton Township, Lycoming County. All of the tracts that he farms are located in Clinton Township. No manure is generated or used on the operation.

**CERTIFICATION REQUEST DOCUMENTATION RQUIREMENTS**

1. **Baseline and Threshold (25 Pa Code 96.8)**

The Mowery farm meets baseline requirements of 025 PA Code 96.8 by having the following required items:

1. Conservation Plans for all tracts (025 PA 102)

The Mowery farm is in full compliance of the requirements of its Conservation Plans.

The Mowery farm meets the threshold needed to generate credits by applying commercial fertilizer at or below agronomic rates contained in the current *Penn State University Agronomy Guide* published by Pennsylvania State University.

**Credit Generation**

The Mowery farm is a minimum tillage/ no-till operation. All credits generated by the Mowery farm are generated by going beyond the baseline tillage requirements to meet the tolerable soil loss rate.

**Credit Calculation Method**

All credits for this certification request will be for Nitrogen (N) credits only. To do this, the current version of the Nonpoint Source Nitrogen Calculation Spreadsheet found on the PA DEP Nutrient Trading Webpage was used. The manure figures used include the manure application rates and manure analysis found in the original certification.

 All cropland associated with this certification lies within Watershed Segment 70. The watershed segment has a Nitrogen delivery ratio of 0.941. The Nitrogen Edge of Stream Ratios for this watershed is 45% for conventional tillage, 45% for conservation tillage, 86% for hay, and 13% for pasture.

1. **Location Maps of the Proposed Prevention Reduction Activity (PRA)**

The following maps have been submitted to show the locations of the proposed PRA for each tract:

1. An FSA map showing the farm boundaries, the field boundaries of tracts that generate credits, adjacent or nearby road names, and any visible receiving streams.
2. A soil map showing the soils in the fields generating credits. A chart with all of the operation’s soil type symbols and their names is also attached with this proposal.
3. A topographic map showing the general area, topography of the tract, and a latitude and longitude reading for the center of the PRA activity.
4. **Details on the Timing of Credits**

Annual verification will take place after the spring crops have been planted.

1. **Water Quality Uses Under Chapter 93**

|  |  |  |  |
| --- | --- | --- | --- |
| Tract number(s) | Local Watershed Name | Watershed Name | Major Basin |
| 327, 328, 330, 336, 339, 340, 349, 3647, 3648 & 3728 | White Deer Hole Creek and UNTs | West Branch Susquehanna River | Susquehanna River |
| 336, 349, 358 and 359 | UNT to W. Branch Susquehanna River | West Branch Susquehanna River | Susquehanna River |

All of the receiving streams are listed in Chapter 93 as having a designated use of WWF (Warm Water Fishes). None of the receiving streams segments are listed as having impairments.

1. **Funding Source Information**

The Mowery farm has not received public funding sources to generate these credits.

1. **Risk Reduction Plan**

Provisions have been put into place to minimize the operator from not producing the credits through a contract with him, the Lycoming County Conservation District, and the County of Lycoming. The contract states that if the operator is under contract for future credits, he must supply them or provide the money required to pay the Lycoming County Nutrient Trading Program the amount it would cost to buy the amount of credits he did not generate. In most cases, we recommend that our producers sign one year contracts for practices that are not permanent like the CREP BMPs. In addition to this provision, the Lycoming Nutrient Trading Program has a fund set aside equal to 25%-30% of all previously sold credits in case there is a credit generator who defaults on contracted credits by no fault of his own. This fund could also be used to produce contracted credits for a generator instead of having a generator purchase them if he defaults depending on the circumstance of the credit default.

1. **Preservation and Conservation Easement Information**

Only Tract 328 is enrolled in the Clinton Township Ag Security Program, but it is not enrolled in the Lycoming County Ag Preservation Program.

1. **Confidential Business Information**

N/A

1. **Submitting Person and PRA Participants**

**Submitter’s Information**

Submitting Agency: Lycoming County Conservation District

Address: 542 County Farm Road, Suite 202

 Montoursville, PA 17754

Contact Name: Rod Morehart, Chesapeake Bay Technician

Contact Phone #: 1(570) 329-1619

**PRA Participants Information**

Operation Information: Richard Mowery Farm

Address: 811 Snaurytown Road

 Montgomery, PA 17752

Contact Name: Richard Mowery

Other PRA Participants: None

1. **Professional Qualifications**

Rod Morehart received a B.S.in Wildlife Management from Delaware State University in 2001. He has worked in the conservation field full time since May 2001. He has been nutrient management certified in Maryland, Delaware or Pennsylvania since 2002. He is also a certified conservation planner through the NRCS’s training program. Rod has been involved with the Lycoming County Nutrient Trading Program since its inception. He has written most of the proposals that have been submitted to date. He has completed all of the annual field verification and credit verification submission work since the program started selling credits.

1. **Verification Plan**

Credit verification will start with a cover crop field check in the spring of every year. Successful cover crop fields will have their credits generated and sent in once all of the cover crop credit work is completed for all program participants. Another field verification visit will be made to inspect the tillage used on all fields that can generate tillage related credits after the spring planting has occurred. This visit will also be used to collect animal numbers and pasture rotation information. The tillage and pasture credits will be sent in as a separate verification request after the credit calculation work is completed.

**Attachments to Supplement the Certification Request Form and**

**Certification Request Required Documentation**

1. **Maps Folder (Each folder listed below contains an FSA map, Soil Map, and a Topographic Map)**

Tract 327 Tract 328 Tract 330 Tract 336 Tract 339 Tract 340

Tract 349 Tract 358 Tract 359 Tract 3647 Tract 3648 Tract 3728

 An Aerial Map or FSA map showing the farm boundaries, the field boundaries of tracts that generate credits, adjacent or nearby road names, and any visible receiving streams.

A soil map showing the soils in the fields generating credits.

A topographic map which shows a tract’s general location, topography, and a latitude and longitude coordinate of the center of the tract’s PRA activities.

1. **RUSLE2 Folder**

**This folder contains the following PDFs:**

Tract 327 F 1 Tract 327 F 2 Tract 327 F 3 Tract 328 F 1

Tract 330 F 1 Tract 336 F 1 Tract 336 F 2 Tract 336 F 3

Tract 336 F 4 Tract 336 F 5 Tract 339 F 1 Tract 340 F 1

Tract 349 F 1 & 3 Tract 349 F2 Tract 349 F 3 Tract 349 F 4

Tract 349 F 5 Tract 358 F 1 Tract 358 F 2 Tract 359 F 1

Tract 3647 F 1 Tract 3648 F 1 Tract 3728 F 1 & 3 Tract 3728 F 2

Tract 3728 F 4-6

1. **Spreadsheet Folder**

**This folder contains the following spreadsheets:**

Tract 327 F 1-3 Tract 328 F 1 Tract 330 F 1 Tract 336 F 1

Tract 336 F 2-4 Tract 336 F 5 Tract 339 F 1 Tract 340 F 1

Tract 349 F 1-3 Tract 349 F 4 Tract 349 F 5 Tract 358 F 1

Tract 358 F 2 Tract 359 F 1 Tract 3647 F 1 Tract 3648 F 1

Tract 3728 F 1 & 3 Tract 3728 F 2 Tract 3728 F 4-6

1. **BMP Summary Spreadsheet**
2. **Spreadsheet Summary**