

NOTICE: This document is required under s. 281.65, Wis. Stats., and chs. NR 153 and 154, Wis. Adm. Code. A final project report must be submitted as part of the final reimbursement request. Personally identifiable information contained in this form will be used for determining reimbursement eligibility in the Targeted Runoff Management and Notice of Discharge Grant Programs and will not be used for any other purpose.

INSTRUCTIONS: Send the completed, electronic copy of this form and all attachments to the Department of Natural Resources (DNR) Region Nonpoint Source Coordinator. Please read all instructions prior to completion.

Grant Type

Select Grant Type Small Scale Non Total Maximum Daily Load (TMDL)

Grant Information

| | | | |
|---|--|--------------------------------|--|
| Grantee - Governmental Unit Name Waupaca County Land & Water Conservation Department | | Grant Number TMD68000Y18 | |
| Project Name Little Wolf River - Rodney Hass Manure Management | | | |
| Project Contact Name Brian Haase | | Phone Number (715) 258-6482 | E-mail Address brian.haase@co.waupaca.wi.us |

Site 1 - Location & Watershed Information Additional sites may be added to the project by clicking on the [+Loc] button

| | | | | |
|--|------------------------------|---|-----------------------|------------------------|
| Name of Cost-Share Recipient Rod & Lori Hass | | Animal Units 368 | Latitude 44.436478 | Longitude -88.92788 |
| County Waupaca | 12-Digit HUC 040302021704 | 12-Digit Watershed Name Bear Lake-Little Wolf River | | |
| Nearest Receiving Waterbody Spiegelberg Creek | | Primary Waterbody addressed by project Little Wolf River | | |

Site 1 - BMP & Load Reduction Information Additional BMPs for this site may be added by clicking on the [+] button

| Best Management Practice Installed | Quantity | Unit of Measure | Performance Standard/Prohibition Addressed | Load Reduction | | | Total Installation Cost |
|------------------------------------|----------|-----------------|--|-------------------|-----------------|------------------|-------------------------|
| | | | | Phosphorus lbs/yr | Nitrogen lbs/yr | Sediment Tons/yr | |
| Manure Storage Systems | 1 | No. | Code(s) 9,4,7 | 137.8 | | | \$356,306.30 |
| Barnyard Runoff Control Systems | 1 | No. | Code(s) 13 | 43.6 | | | \$51,131.00 |
| Waste Transfer Systems | 2 | No. | Code(s) 4,9,7 | 137.8 | | | \$43,881.63 |

Model(s)/Methods Used to Calculate Load Reduction (check all that apply)

STEPL SNAP+ BARNY RUSLE 2 Other (specify) _____

Site 1 - Compliance Requirements

| Performance Standard or Prohibition Addressed | Chs. NR 151 or 243 Wis. Adm. Code Notice Type | Notice Letter Attached? | Compliance Achieved? | Compliance letter attached? |
|--|---|-------------------------|----------------------|-----------------------------|
| Manure storage facilities-new/significant alterations. | NR 151 | No | Yes | Yes |
| Process wastewater handling. | NR 151 | No | Yes | Yes |
| Nutrient management. | NR 151 | No | Yes | Yes |
| Prohibit runoff from feedlot or stored manure into the state's waters. | NR 151 | No | Yes | Yes |

Check all of the true statements below.

- 1. A copy the compliance letter for site 1 has been placed in county files.
- 2. The attached compliance letter for site 1:
 - a. has been provided by the county to the landowner and cost-share recipient;
 - b. identifies each of the performance standards & prohibitions (PS&Ps) on cropland and livestock facilities brought into compliance by the project, and listed in the table above;
 - c. identifies the name and location of the facility where compliance has been achieved; and
 - d. states that the landowner is obligated to maintain compliance with each PS&P addressed by the project in perpetuity regardless of future cost sharing.

Site 1 - Required attachments

Check the box if the required information for the site is attached:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Photos of pre-and post-implementation of BMP(s) | <input checked="" type="checkbox"/> Load reduction modeling documents |
| <input checked="" type="checkbox"/> Aerial photo map of site with BMPs labeled | <input type="checkbox"/> Water quality monitoring results/summary, if applicable |

Site 1 - Information

Narrative space will expand to fit

A new waste storage structure, transfer system and pumps, and a total containment barnyard all were installed at this site during 2019. Most of the project occurred over a 4 month period from early July through the end of September. Due to wet weather conditions, the project was delayed approximately one month. The BMPs addressed barnyard runoff and increased the landowners manure storage capacity in order to eliminate winter spreading on vulnerable fields.

DNR may use this site as a success story to meet state and federal reporting needs.

Additional Project Information and/or Comments

Narrative space will expand to fit

Due to high groundwater conditions during construction, the pit was raised 2 feet to ensure adequate separation distances were met per the NRCS 313 standard. Foundry sand was also used as a subliner to the reduced seepage concrete. The completion of this project should be effective at eliminating polluted runoff from the farmstead and ensuring that the operators meet the NR 151 Ag Performance Standards.

Grantee Certification

A responsible government official (authorized signatory) must authorize and date the final report form prior to submittal to DNR.

I certify that, to the best of my knowledge, the project is complete and the information contained in this final report and attachments are correct and true.

| Name of Authorized Government Official | Title of Authorized Government Official | Date |
|--|---|------------|
| Brian Haase | County Conservationist | 02/24/2020 |

For DNR Use Only

- Received complete reports with all attachments Practices implemented were consistent with the grant agreement

Comments about this project:

| Name of Region Nonpoint Source Coordinator | Date |
|--|------------|
| Eric Evensen | 03/31/2020 |

Send the Final Report and attachments to the Community Financial Assistance Grants Manager and to the Runoff Management Grant Coordinator. Keep a printed copy for the Region file.

**Waupaca County
Land & Water Conservation Department**

811 Harding Street
Waupaca WI 54981
Fax: 715/258-6239

Phone: 715/258-6245



Brian Haase
County Conservationist
Ann Stearns
Program Assistant
Corey Schuelke
Engineering Technician
Greg Peterson
Engineering Technician
Dan McFarlane
Engineering Technician/GIS
Stefan Stults
Nutrient Mngmt. Specialist

January 23, 2020

Rod & Lori Hass
N5454 State Rd 22-110
Manawa, WI 54949

Mr. & Mrs. Hass,

Waupaca County is required to inform you in writing, as part of the TRM grant process, of your obligation to maintain compliance with the applicable state agricultural performance standards and prohibitions that were addressed by the TRM cost-share agreement for your farm located at T23N R13E Sec 28. These standards and prohibitions are outlined in Subchapter II (NR 151.02-NR 151.09) of Wisconsin Administrative Code NR 151 and are listed below. Keep in mind that you are now obligated to maintain compliance with each of the performance standards listed below in perpetuity regardless of future cost sharing. I encourage you to take the time to read them over carefully.

| | |
|---------------|---|
| NR 151.05(2) | Manure storage facilities performance standards (New Construction and Alterations) |
| NR 151.07 | Nutrient Management |
| NR 151.055(2) | Processed Wastewater Handling (No significant discharge to waters of the state) |
| NR 151.08(4) | Manure Management Prohibitions (A livestock operation shall have no direct runoff from a feedlot or stored manure into waters of the state) |

Also, to further comply with NR 151.07 (Nutrient Management) and Section 51.08(4) of the Waupaca County Code of Ordinances, Waupaca County and the State of Wisconsin requires that you submit a copy of your Nutrient Management Plan (NRCS 590) to our office by April 15th of each year. Copies of your plan will be kept on file for potential review by DNR, DATCP or County staff.

If you have any questions regarding this issue or would like a full copy of Wisconsin Administrative Code NR 151, please feel free to call me at 715-258-6482.

Sincerely,

Brian Haase
County Conservationist
Waupaca County LWCD
715-258-6482

PRE CONSTRUCTION P OUTPUT (Based on BARNY)

Farmer: Rod Hass

Planner/Designer: DM

Date: 2019

| | Input | Output | |
|-------------------------------------|------------|-------------|---|
| Closest City of similar climate: | 2 | | 1 Madison 2 Appleton 3 Wausau 4 Eau Claire |
| Paved lot area: | 6,925 | sq ft | |
| Earth lot area: | 1,675 | sq ft | |
| Animal Lot size: | | 8,600 sq ft | |
| Is there a designed settling basin? | 2 | | Yes= 1; No= 2 |
| Animals on lot: | 100 number | 0 number | |
| Type of animal: | 1 | | (Dairy = 1; Beef=2) |
| Ave. Animal Weight: | 600 lbs | lbs | |
| Lot Use: | 1 | | 1= Heavy;2=Med;3= Light) |

TRIBUTARY AREAS

| | | | | | |
|----------------------|-----|-------|--|-------|---|
| Tributary area: | 750 | sq ft | | sq ft | |
| Runoff Curve Number: | 95 | | | ← | See RCN tab below for typical values |
| Roof Trib. area: | 0 | sq ft | | | |

43.6 lbs P per year
at downstream lot edge

Enter Existing Buffer Data:

| | | | |
|--------------|------|----|------------------------------|
| Length: | 46 | ft | |
| Width: | 20 | ft | |
| Buffer area: | | | |
| Slope: | 1 | % | |
| c value | 0.15 | | For c values see table below |

P Output: 43.6 lb

PRE CONSTRUCTION P OUTPUT (Based on BARNY)

Farmer: Rod Hass

Planner/Designer: DM

Date: 2019

| | Input | Output | |
|-------------------------------------|------------|-------------|---|
| Closest City of similar climate: | 2 | | 1 Madison 2 Appleton 3 Wausau 4 Eau Claire |
| Paved lot area: | 6,640 | sq ft | |
| Earth lot area: | 0 | sq ft | |
| Animal Lot size: | | 6,640 sq ft | |
| Is there a designed settling basin? | 1 | | Yes= 1; No= 2 |
| Animals on lot: | 100 number | 0 number | |
| Type of animal: | 1 | | (Dairy = 1;Beef=2) |
| Ave. Animal Weight: | 600 lbs | lbs | |
| Lot Use: | 1 | | 1= Heavy;2=Med;3= Light) |

TRIBUTARY AREAS

| | | | | |
|----------------------|---|-------|---|--|
| Tributary area: | 0 | sq ft | 0 | sq ft |
| Runoff Curve Number: | 0 | | | ← See RCN tab below for typical values |
| Roof Trib. area: | 0 | sq ft | | |

0.0 lbs P per year
at downstream lot edge

Enter Existing Buffer Data:

| | | | |
|--------------|------|----|------------------------------|
| Length: | | ft | |
| Width: | | ft | |
| Buffer area: | | | |
| Slope: | 1 | % | |
| c value | 0.15 | | For c values see table below |

P Output: 0.0 lb

| FM10: Annual PI Report | | Hass Farms | | Crop Rotation 2016 to 2022 - WSF built in 2019 | | | | | | | | PI Difference | |
|------------------------|---------------|-----------------------------|---------|--|------|------|------|------|------|------|------|-------------------------------------|--|
| Field Name | Field Acreage | Field Rotational Average PI | P Index | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | "No WSF" - "Yes WSF" | PI Difference x Field Acres |
| | | | | | | | | | | | | Sum(2016-2019) minus Sum(2020-2023) | Negative means P Loss Positive means P Loss reduction |
| Apple Field | 14.5 | 2 | Total | 1.9 | 1.6 | 2.1 | 2.0 | 1.3 | 1.0 | 1.1 | 1.1 | 3.1 | 45.0 |
| Back Field | 18.6 | 3 | Total | 4.0 | 2.9 | 2.8 | 2.7 | 3.3 | 2.5 | 2.0 | 1.9 | 2.7 | 50.2 |
| Behind Sandy | 6.2 | 2 | Total | 2.7 | 2.0 | 1.2 | 1.2 | 3.0 | 2.3 | 1.7 | 1.6 | -1.5 | -9.3 |
| Between Roads | 16.4 | 3 | Total | 4.0 | 3.0 | 2.8 | 2.7 | 3.3 | 2.5 | 2.0 | 1.8 | 2.9 | 47.6 |
| By Garden | 5.9 | 3 | Total | 5.2 | 3.1 | 1.4 | 1.1 | 5.0 | 3.2 | 1.3 | 1.1 | 0.2 | 1.2 |
| Dump | 10.4 | 5 | Total | 8.8 | 5.8 | 4.0 | 3.6 | 8.0 | 5.5 | 3.2 | 2.8 | 2.7 | 28.1 |
| Koschuck 22 | 22.6 | 3 | Total | 3.7 | 2.8 | 2.7 | 2.6 | 3.1 | 2.3 | 1.8 | 1.7 | 2.9 | 65.5 |
| Koschuck 32 | 30.0 | 3 | Total | 3.8 | 2.8 | 2.6 | 2.5 | 3.1 | 2.3 | 1.7 | 1.6 | 3.0 | 90.0 |
| Koschuck Pole | 14.1 | 4 | Total | 5.2 | 3.8 | 3.5 | 3.3 | 4.5 | 3.4 | 2.7 | 2.6 | 2.6 | 36.7 |
| Leons East | 11.4 | 4 | Total | 7.2 | 4.9 | 3.4 | 3.1 | 6.3 | 4.5 | 2.6 | 2.3 | 2.9 | 33.1 |
| Leons West | 15.2 | 4 | Total | 6.9 | 4.7 | 3.3 | 3.0 | 6.1 | 4.4 | 2.5 | 2.2 | 2.7 | 41.0 |
| Neighbors House | 7.5 | 3 | Total | 3.9 | 2.9 | 2.5 | 2.4 | 3.2 | 2.5 | 1.9 | 1.8 | 2.3 | 17.3 |
| Next to Sandy | 13.6 | 3 | Total | 4.1 | 3.0 | 2.5 | 2.3 | 3.4 | 2.6 | 2.0 | 1.8 | 2.1 | 28.6 |
| Oak Tree | 18.0 | 3 | Total | 4.4 | 3.3 | 2.5 | 2.4 | 3.7 | 2.8 | 2.2 | 2.1 | 1.8 | 32.4 |
| Pole Field | 16.9 | 3 | Total | 4.4 | 3.1 | 2.6 | 2.5 | 3.8 | 2.7 | 1.8 | 1.7 | 2.6 | 43.9 |

Total = 551.3 (uyr)

551.3 / 4yr Rotation
= 137.8

FM10: Annual PI Report

| | |
|---|------------|
| Reported For | Hass Farms |
| Printed | 2020-02-03 |
| Plan Completion/Update Date | 2018-10-08 |
| SnapPlus Version 19.1 built on 2019-12-26 | |
| V:\LWCD\Nutrient_Management\TRM_Modeling\TRM_Modeling_Hass Farms.snapDb | |

Prepared for:
Hass Farms
attn:Hass Farms
N5454 State Road 22 & 110
Manawa, 54949

| Field Name | Soil Series & Symbol (critical) | Slope | Tillage | Rot Avg PI | PI | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------|---------------------------------|-------|-------------------------------------|------------|---------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Apple Tree | PLAINFIEL D PIB | 4 | FCD-FCD-None-None-FCD-FCD-None-None | 2 | Total Particulate Soluble | 1.9 0.9 1.0 | 1.6 0.6 1.0 | 2.1 0.2 1.8 | 2.0 0.2 1.8 | 1.3 0.9 0.4 | 1.0 0.6 0.4 | 1.1 0.2 0.8 | 1.1 0.2 0.9 |
| Back Field | HORTONVILLE HnB | 4 | FCD-FCD-None-None-FCD-FCD-None-None | 3 | Total Particulate Soluble | 4.0 2.9 1.1 | 2.9 1.8 1.2 | 2.8 0.8 2.0 | 2.7 0.7 2.0 | 3.3 2.8 0.5 | 2.5 1.9 0.6 | 2.0 0.8 1.1 | 1.9 0.7 1.1 |
| Behind Sandy | HORTONVILLE HnB | 4 | FCD-FCD-None-None-FCD-FCD-None-None | 2 | Total Particulate Soluble | 2.7 2.5 0.2 | 2.0 1.7 0.3 | 1.2 0.7 0.5 | 1.2 0.6 0.5 | 3.0 2.7 0.3 | 2.3 1.8 0.4 | 1.7 0.8 0.8 | 1.6 0.7 0.9 |
| Between Roads | HORTONVILLE HnB | 4 | FCD-FCD-None-None-FCD-FCD-None-None | 3 | Total Particulate Soluble | 4.0 2.9 1.1 | 3.0 1.8 1.1 | 2.8 0.8 2.0 | 2.7 0.7 2.0 | 3.3 2.8 0.5 | 2.5 1.9 0.6 | 2.0 0.9 1.1 | 1.8 0.7 1.1 |
| By Garden | RICHFORD RfC | 10 | FCD-FCD-None-None-FCD-FCD-None-None | 3 | Total Particulate Soluble | 5.2 5.0 0.2 | 3.1 3.0 0.2 | 1.4 1.1 0.3 | 1.1 0.9 0.2 | 5.0 4.9 0.1 | 3.2 3.1 0.1 | 1.3 1.2 0.1 | 1.1 1.0 0.1 |
| Dump | HORTONVILLE HrC2 | 9 | FCD-FCD-None-None-FCD-FCD-None-None | 5 | Total Particulate Soluble | 8.8 7.8 1.1 | 5.8 4.7 1.1 | 4.0 1.9 2.0 | 3.6 1.6 2.0 | 8.0 7.5 0.5 | 5.5 4.9 0.6 | 3.2 2.1 1.1 | 2.8 1.7 1.1 |
| Koshuck 22 | HORTONVILLE HnB | 4 | FCD-FCD-None-None-FCD-FCD-None-None | 3 | Total Particulate Soluble | 3.7 2.7 1.0 | 2.8 1.7 1.1 | 2.7 0.8 1.9 | 2.6 0.6 1.9 | 3.1 2.6 0.4 | 2.3 1.8 0.6 | 1.8 0.8 1.0 | 1.7 0.7 1.0 |

| Field Name | Soil Series & Symbol (critical) | Slope | Tillage | Rot Avg PI | PI | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|-----------------|---------------------------------|-------|-------------------------------------|------------|---------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Koshuck 32 | HORTONVILLE HnB | 4 | FCD-FCD-None-None-FCD-FCD-None-None | 3 | Total Particulate Soluble | 3.8 2.9 0.9 | 2.8 1.8 1.0 | 2.6 0.8 1.8 | 2.5 0.7 1.8 | 3.1 2.8 0.3 | 2.3 1.9 0.5 | 1.7 0.9 0.9 | 1.6 0.7 0.9 |
| Koshuck Pole | HORTONVILLE HnB | 4 | FCD-FCD-None-None-FCD-FCD-None-None | 4 | Total Particulate Soluble | 5.2 3.7 1.5 | 3.8 2.3 1.5 | 3.5 1.0 2.5 | 3.3 0.8 2.5 | 4.5 3.6 0.9 | 3.4 2.4 1.0 | 2.7 1.1 1.6 | 2.6 0.9 1.6 |
| Leons East | HORTONVILLE HrC2 | 9 | FCD-FCD-None-None-FCD-FCD-None-None | 4 | Total Particulate Soluble | 7.2 6.3 0.9 | 4.9 3.9 0.9 | 3.4 1.6 1.7 | 3.1 1.3 1.7 | 6.3 6.0 0.3 | 4.5 4.1 0.4 | 2.6 1.8 0.8 | 2.3 1.5 0.8 |
| Leons West | HORTONVILLE HrC2 | 9 | FCD-FCD-None-None-FCD-FCD-None-None | 4 | Total Particulate Soluble | 6.9 6.1 0.9 | 4.7 3.8 0.9 | 3.3 1.6 1.7 | 3.0 1.3 1.7 | 6.1 5.8 0.3 | 4.4 3.9 0.4 | 2.5 1.7 0.8 | 2.2 1.4 0.8 |
| Neighbors House | HORTONVILLE HnB | 4 | FCD-FCD-None-None-FCD-FCD-None-None | 3 | Total Particulate Soluble | 3.9 2.9 1.1 | 2.9 1.8 1.1 | 2.5 0.8 1.7 | 2.4 0.7 1.7 | 3.2 2.8 0.5 | 2.5 1.9 0.6 | 1.9 0.9 1.0 | 1.8 0.7 1.1 |
| Next to Sandy | HORTONVILLE HnB | 4 | FCD-FCD-None-None-FCD-FCD-None-None | 3 | Total Particulate Soluble | 4.1 3.0 1.1 | 3.0 1.9 1.2 | 2.5 0.8 1.7 | 2.3 0.7 1.7 | 3.4 2.9 0.5 | 2.6 2.0 0.6 | 2.0 0.9 1.1 | 1.8 0.8 1.1 |
| Oak Tree | HORTONVILLE HnB | 4 | FCD-FCD-None-None-FCD-FCD-None-None | 3 | Total Particulate Soluble | 4.4 3.2 1.2 | 3.3 2.0 1.3 | 2.5 0.8 1.7 | 2.4 0.7 1.7 | 3.7 3.1 0.6 | 2.8 2.0 0.7 | 2.2 0.9 1.3 | 2.1 0.8 1.3 |
| Pole Field | HORTONVILLE HnB | 4 | FCD-FCD-None-None-FCD-FCD-None-None | 3 | Total Particulate Soluble | 4.4 3.5 0.9 | 3.1 2.1 1.0 | 2.6 0.9 1.7 | 2.5 0.8 1.7 | 3.8 3.4 0.3 | 2.7 2.2 0.5 | 1.8 1.0 0.8 | 1.7 0.8 0.9 |



Total containment barnyard

Waste Transfer System

New waste storage facility

Imagery Date:
April, 2015



0 50 100
Feet

















