

State of Wisconsin
Runoff Management Section-WT/3
Department of Natural Resources
101 South Webster Street
Madison, WI 53703
or
PO Box 7921
Madison WI 53707-7921
dnr.wi.gov

ORIGINAL

Targeted Runoff Management (TRM) Grant Program
Small-Scale Agricultural Application
CY 2013 Funding
Form 8700-300 (R 1/12)

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Notice: This application form template was created by the Wisconsin Department of Natural Resources. Application is hereby made to the Wisconsin Department of Natural Resources, Bureau of Watershed Management, for grant assistance consistent with s. 281.65, Wis. Stats., and Chapters NR 153 and NR 154, Wis. Adm. Code. Collection of this information is authorized under the authority of s. 281.65, Wis. Stats. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law [ss. 19.31 - 19.39, Wis. Stats.]. *Unless otherwise noted, all citations refer to Wisconsin Administrative Code.*

Please read the instructions prior to completion of this form. Complete all sections as applicable. If you need to view the Web sites included in this application, please copy and paste them into your Web browser address line.

Applicant Information

Project Name

Columbia Hendrickson Trm Small 2013

Governmental Unit Applying (name and type) (example: Dane County Land and Water Resources Department)

Columbia County Land and Water Conservation Department

Yes No Project Characterization: Total Maximum Daily Load (TMDL) vs. Non-TMDL

- ☐ ☒ 1. The project is located in a watershed covered by an EPA-approved TMDL report, a DNR-approved TMDL implementation plan, or an equivalent to any of the aforementioned documents as approved by the DNR.
- ☐ ☒ 2. The project addresses the pollutant(s) specified as causing the impairment in one of the aforementioned documents.

If "Yes", provide the title of the TMDL report, implementation plan, or equivalent document this project addresses.

Governmental Unit Web Site Address

www.co.columbia.wi.us

Name of Responsible Municipal Representative (First Last)

Kurt R. Calkins

Name of Governmental Contact Person (First Last) (if different)

Title

Director of LWCD

Title

Area Code + Telephone Number

608 742 9670

Area Code + Telephone Number

Area Code + Cell Phone Number

na

Area Code + Cell Phone Number

Area Code + Fax Number

608 742 9840

Area Code + Fax Number

E-Mail Address

kurt.calkins@co.columbia.wi.us

E-Mail Address

Mailing Address - Street or Route

P.O. Box 485 120 West Conant Street

Mailing Address - Street or Route

City

Portage

State

WI

Zip Code

53901

City

State

Zip Code

Project Information

A. Location of Project

County: **Columbia**

State Senate District #: **16**

State Assembly District #: **47**

Minor Civil Division Name (city, village, town, etc. - ex. Holland, Town of)	Township (N)	Range	E or W	Section	Quarter	Quarter- Quarter	Latitude (North, degrees, minutes, seconds only)	Longitude (West, degrees, minutes, seconds only)
Town of Springvale	12	11	E	12	NW	SE	43 31' 21.8"	89 8' 14.4"

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Method for Determining Latitude & Longitude (check one)

☐ GPS

☒ DNR WebView or Surface Water Data Viewer

☐ Other (specify):

B. Project Summary

This is a medium sized dairy (130) herd located in the Town of Springvale in Columbia County. This site currently has no manure storage facilities and are forced to daily haul manure throughout the year. This is causing NPS runoff risk related with land application in the winter under frozen ground and during the summer growing season. We feel that the construction of a manure storage structure and transfer system will allow the landowner to manage his manure better and apply nutrients according to a NMP at the correct times and locations. (Manure Storage/Transfer)

The current barnyard/heifer lot has over 60 acres of watershed draining directly thru these lot areas. These lots drain in concentrated flow downstream connecting to an intermittent stream that flow into the North Branch of Duck Creek. This watershed drains to the 303(d) listed Lake Wisconsin. The sources of pollution are directly related NPS nutrients and sediment leaving sites such as this. This project would include the implementation of 190 feet of roof gutters to divert clean water, the development of a 125' clean water diversion and 350' of fencing all designed to divert the drainage area around the barnyard/heifer lot.

As a condition of this grant, the landowner would develop a 590 NMP plan on this 320 acres of cropland. This would make beneficial use of his manure storage structure. NMP development would be required as a condition of local Title 15 Animal Waste Management Ordinance.

This project will address NR 151 concerns relating to direct runoff from feedlot/stored manure, implement clean water diversions and have a NMP developed.

C. Agricultural Performance Standards & Prohibitions to be Addressed in the Project Area (check all that apply)

To Be Addressed with TRM Funding	To Be Addressed by Other Funding Sources	Standard Not Applicable to This Project	Agricultural Performance Standard & Prohibitions	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.	Sheet, rill, and wind erosion. (NR 151.02)
	<input type="checkbox"/>	<input type="checkbox"/>	2.	Tillage setback. (NR 151.03)
	<input type="checkbox"/>	<input type="checkbox"/>	3.	Phosphorus index. (NR 151.04)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.	Manure storage facilities-new/significant alterations. (NR 151.05(2))
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.	Manure storage facilities-closure. (NR 151.05(3))
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.	Manure storage facilities-existing failing/leaking. (NR 151.05(4))
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.	Process wastewater handling. (NR 151.055)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.	Clean water diversions. (NR 151.06)
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9.	Nutrient management. (NR 151.07)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.	Prohibition: Prevention of overflow from manure storage facilities. (NR 151.08(2))
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.	Prohibition: Prevention of unconfined manure piles in water quality management areas (within 300 feet of a stream, 1000 feet. of a lake, or areas where the groundwater is susceptible to contamination). (NR 151.08(3))
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12.	Prohibition: Prevention of direct runoff from a feedlot or stored manure into waters of the state. (NR 151.08(4))
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13.	Prohibition: Prevention of unlimited livestock access to waters of the state where high concentrations of animals prevent the maintenance of adequate sod cover or self-sustaining vegetation. (NR 151.08(5))

D. Watershed, Waterbody, and Pollutants (see **Attachment A**). Example: Watershed Name: Oconomowoc River; Watershed Code: UR09; Primary Waterbody Name: Oconomowoc River; Nearest Water body: Flynn Creek.)

Watershed Name	Watershed Code	Primary Waterbody Name	Nearest Waterbody Name
Duck Creek & Rocky Run	LW20	North Branch Duck Creek	North Branch Duck Creek

12-digit Hydrologic Unit Code (HUC): **070700050102**

Nonpoint Source Pollutant(s) Controlled by the Project

☒ Nutrients ☒ Sediment ☐ Other, specify:

Yes No

E. Request for Funding of Fee Title Land Acquisition or Easements

- ☐ ☒ Requesting funding for either fee title land acquisition or purchase of easements as part of this application to support eligible BMPs. If "Yes," attach the property acquisition proposal, as defined in **Attachment B** to the completed application form. Also, refer to **Attachment G** for information on Environmental Hazards Assessments, which are required for projects that include fee title or easement purchase.

F. Endangered and Threatened Resources, Historic Properties, and Wetlands

Check the appropriate box for each question based on what the **governmental unit knows** to occur where the project disturbs land. If you have no evidence of the items below, check "No."

- ☐ ☒ 1. There are endangered or threatened resources, as identified in s. 29.604, Wis. Stats., and ch. NR 27 in the project area.
- ☐ ☒ 2. There are archaeological sites, historical structures, burial sites, or other historic places identified in s. 44.45, Wis. Stats., in the project area.
- ☐ ☒ 3. There are wetlands in the project area that are governed by water quality standard provisions of ch. NR 103.

G. Request for Retroactive Funding for Design Costs

- ☐ ☒ Requesting reimbursement for design costs that have been or will be incurred before issuance of the grant.

H. Request for Funding for Force Account Work

- ☐ ☒ Requesting reimbursement for technical services to be performed by governmental unit staff (force account).

Part I. Screening Requirements

Yes ☒ No ☐ **A. Map**
An 8.5" x 11" topographic map from USGS or the DNR Surface Water Data Viewer, showing the project area, is attached.

B. Best Management Practices (BMPs) For Which DNR Funding Is Requested (check all that apply)
(see **Attachment D** for additional BMP information)

Practice	Wis. Adm. Code	Practice	Wis. Adm. Code
<input checked="" type="checkbox"/> Manure Storage Systems	NR 154.04(3)	<input type="checkbox"/> Riparian Buffers	NR 154.04(25)
<input type="checkbox"/> Manure Storage System Closure	NR 154.04(4)	<input type="checkbox"/> Roofs	NR 154.04(26)
<input type="checkbox"/> Barnyard Runoff Control Systems	NR 154.04(5)	<input checked="" type="checkbox"/> Roof Runoff Systems	NR 154.04(27)
<input type="checkbox"/> Access Roads & Cattle Crossings	NR 154.04(6)	<input type="checkbox"/> Sediment Basins	NR 154.04(28)
<input type="checkbox"/> Animal Trails and Walkways	NR 154.04(7)	<input type="checkbox"/> Sinkhole Treatment	NR 154.04(30)
<input checked="" type="checkbox"/> Critical Area Stabilization	NR 154.04(10)	<input type="checkbox"/> Subsurface Drains	NR 154.04(33)
<input checked="" type="checkbox"/> Diversions	NR 154.04(11)	<input type="checkbox"/> Terrace Systems	NR 154.04(34)
<input type="checkbox"/> Field Windbreaks	NR 154.04(12)	<input checked="" type="checkbox"/> Underground Outlets	NR 154.04(35)
<input type="checkbox"/> Filter Strips	NR 154.04(13)	<input type="checkbox"/> Waste Transfer Systems	NR 154.04(36)
<input type="checkbox"/> Grade Stabilization	NR 154.04(14)	<input type="checkbox"/> Wastewater Treatment Strips	NR 154.04(37)
<input type="checkbox"/> Heavy Use Area Protection	NR 154.04(15)	<input type="checkbox"/> Water and Sediment Control Basins	NR 154.04(38)
<input type="checkbox"/> Lake Sediment Treatment	NR 154.04(16)	<input type="checkbox"/> Waterway Systems	NR 154.04(39)
<input checked="" type="checkbox"/> Livestock Fencing	NR 154.04(17)	<input type="checkbox"/> Well Decommissioning	NR 154.04(40)
<input type="checkbox"/> Livestock Watering Facilities	NR 154.04(18)	<input type="checkbox"/> Wetland Development or Restoration	NR 154.04(41)
<input type="checkbox"/> Prescribed Grazing	NR 154.04(22)	<input type="checkbox"/> Wetland Development or Restoration	NR 154.04(41)
<input type="checkbox"/> Relocating or Abandoning Animal Feeding Operations	NR 154.04(23)		

Process Wastewater Handling: NR 154.04(29) & NRCS 629

- ☐ Milking Center Waste Control Systems
- ☐ Feed Storage Leachate
- ☐ Other Wastewater – specify below

Streambank and Shoreline Protection: NR 154.04(31) (includes associated fencing)

- ☐ Stream Crossing
- ☐ Streambank/Shoreline Rip-rapping
- ☐ Streambank/Shoreline Shaping & Seeding
- ☐ Streambank/Shoreline Fencing
- ☐ Other Streambank/Shoreline Protection (incl. bio-engineering) - specify below

☐ Other (specify) _____

C. Filters

Note: Applicants must be able to answer "Yes" to questions 1 through 12 and "Yes" or "N/A" (Not Applicable) to questions 13 and 14 to be eligible for a grant.

- | | | |
|---|-----------------------------|---|
| Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | 1. The project will control agricultural runoff. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. Project will be designed to achieve attainment of one or more agricultural performance standards and prohibitions. Note: Applicants addressing a TMDL are not required to answer "Yes" to question 2 to be eligible for a grant. |

- ☒ ☐ 3. Project is consistent with at least one of the following watershed priorities. Check all of the following that apply.
- ☒ a. Clean Water Act section 303(d) List of Impaired Waters
Project with water quality goals directly dealing with a water body (lake or stream) on the latest Clean Water Act (CWA) section 303(d) List of Impaired Waters, where the cause of the water quality impairment is nonpoint source pollution **and this project** will reduce the type of nonpoint source pollutants for which the water is listed. (see **Attachment A**)
Name of Applicable Impaired Water: **Lake Wisconsin 303(d) list Downstream**
Name of Pollutant Causing Impairment: **NPS (nutrients and sedimentation)**
- ☐ b. Outstanding and Exceptional Resource Waters
Water body is included in s. NR 102.10 (Outstanding Resource Waters) and/or s. NR 102.11 (Exceptional Resource Waters).
Name of Applicable Outstanding or Exceptional Resource Water: _____
- ☒ c. NPS Rankings
Project is located in a large-scale watershed, a small-scale watershed, lake watershed, or other area ranked high or medium on the NPS Rankings List, where the goals of the project are directly associated with the reason for the ranking on the NPS Rankings List.
- ☐ d. Amendment of the NPS Rankings List Using DNR-Approved Basin/Watershed Plans
Project is located within a watershed ranked low or not ranked on the NPS Rankings List, but information in a DNR-approved Basin/Watershed Plan indicates a need to amend the NPS Rankings List because the stream, stream segment, or lake is being affected by nonpoint sources of pollution.
- ☐ e. Amendment of the NPS Rankings List Using Other Data Sources
Project is located within a watershed ranked low or not ranked on the NPS Rankings List, but adequate data exists to request a ranking of high or medium for a water body that that is being affected by nonpoint sources of pollution.
- ☐ f. Sources of Information for areas Not included in DNR-Approved Basin/Watershed Plans
For some border waters, there is no DNR-approved Basin/Watershed Plan (*i.e.*, along the Mississippi River or the Great Lakes). For these situations, another governmental document, accepted by the District NPS Coordinator, can be used to classify the resource as having significant nonpoint source pollution impairment.
- ☐ g. Governmental Notices
The applicant has checked "Yes" to Part II, question 3. A.1.
- ☐ h. Public Health Threats
Project is located in a watershed with existing threats to public health due to nonpoint source pollution.
- ☐ i. Other Areas of Special Natural Resource Interest or Other Water Quality Concerns of National or Statewide Importance As Approved by the DNR.
To locate ASNRI using DNR's Surface Water Data Viewer go to <http://dnrmapping.wi.gov/imf/imf.jsp?site=SurfaceWaterViewer.deswaters>. For more information about ASNRI go to http://dnr.wi.gov/org/water/swims/datasets/designated_waters/ASNRI.htm.
Identify ASNRI or National or Statewide Water Quality Concern: _____
- ☒ ☐ 4. New Facilities: Funding from this grant will **not** be used for best management practices to bring into compliance with state standards and prohibitions any cropland, livestock facility, or significant livestock facility alteration that is created after the effective date of the applicable NR 151 performance standard or prohibition.
- ☒ ☐ 5. Previously in Compliance: Funding from this grant will **not** be used for best management practices to bring a livestock facility or cropland back into compliance with a performance standard or prohibition in ch. NR 151 when such compliance had previously been achieved after the effective date of the standard or prohibition.
- ☒ ☐ 6. Previous Offer of Cost Sharing: Funding from this grant will **not** be used for best management practices for which the DNR or local unit of government included a previous offer of cost sharing as part of a NR 151 notice or county notice that meets requirements of NR 151.09 or NR 151.095.
- ☒ ☐ 7. Project is consistent with the county Land & Water Resources Management Plan (LWRMP), plan amendment, or work plan prepared under s. ATCP 50.12, Wis. Adm. Code.

- a. To demonstrate consistency, identify the goals, objectives, or activities from the LWRMP, plan amendment, or work plan related to the resource(s) of concern being address by the project. Identify the document name.

Columbia County Land and Water Resource Management Plan (2011)
<http://www.co.columbia.wi.us/ColumbiaCounty/Portals/16/Park%20Lake%20Comprehensive%20Management%20Plan.pdf>

References: Page 33 (watershed assessment), page 41(NR 151), page 48 (CAC Priority Issues), page 52-61 (goals and objectives)

- ☒ ☐ 8. Project will be completed within 24 months of the start of the grant period.
- ☒ ☐ 9. Staff and contractors designated to work on this project have adequate training, knowledge, and experience to implement the proposed project.
- ☒ ☐ 10. Staff or contractual services, in addition to those funded by this grant, will be provided if needed.
- ☐ ☐ 11. The local DNR District Nonpoint Source Coordinator (see **Attachment C**) has been contacted and the project was discussed.

Name of the District Nonpoint Source Coordinator Contacted	Date Contacted	Subject of Contact
Mike Volrath DNR	3/22/2012	2013 DNR TRM Grant Plans To Submit
Mike Volrath DNR	4/16/2012	Summary of Grants as submitted as Final

- Yes No
☒ ☐ 12. The county, in which the project resides, has a strategy in an approved LWRMP, an updated LWRMP work plan, or an Inter-Governmental Agreement with the DNR to implement agricultural performance standards and prohibitions contained in ch. NR 151. To answer "Yes," the strategy must include **all** of the following key activities. List the document and page number where the activity is addressed.

	NR 151 Implementation Activity	Document	Page Number
a.	Inform and educate landowners/operators required to comply with performance standards and prohibitions.	Columbia County LWRMP	44-51
b.	Conduct compliance status inventories based on records reviews and on-site visits.	Columbia County LWRMP	44-51
c.	Document inventory results and maintain compliance status records.	Columbia County LWRMP	44-51
d.	Report inventory results and continuing compliance requirements to landowners/operators.	Columbia County LWRMP	44-51
e.	Identify best management practices to achieve compliance.	Columbia County LWRMP	44-51
f.	Apply for grants from the Department of Natural Resources or work to secure grants from other state, federal, or local sources to provide cost sharing to landowners/operators to achieve compliance with performance standards and prohibitions.	Columbia County LWRMP	44-51
g.	Develop cost-share agreements and provide for technical assistance to landowners/operators to achieve compliance with performance standards and prohibitions.	Columbia County LWRMP	44-51
h.	Assist the Department of Natural Resources as its request in drafting NR 151 notices to landowners/operators.	Columbia County LWRMP	44-51
i.	Fulfill annual program reporting requirements.	Columbia County LWRMP	44-51

Yes No N/A

- ☒ ☐ ☐ 13. If this is an application for a livestock facility, an Animal Units Calculation Worksheet (Form 3400-25a) for existing and future livestock numbers is attached available at:
<http://www.dnr.state.wi.us/runoff/rules/nr243/>.
- ☐ ☐ ☒ 14. If this is a joint application among local units of government, a **draft** of the Inter-Governmental Agreement is attached. (see **Attachment H**)

Part II. Competitive Elements

Question 1. Fiscal Accountability

A. Timeline and Source of Staff

For each applicable milestone listed below, fill in the appropriate data:

Milestone	Target Completion Date (month/year)	Source of Staff
Completion of design	3/2013	lwcd
Obtaining required permits	8/2013	lwcd
Landowner contacts	8/2013	lwcd
CSA signing	8/2013	lwcd
Bidding	11/2013	lwcd
DNR approvals	11/2013	lwcd
Contract signing	11/2013	lwcd
BMP construction	4/2014	lwcd
Site inspection and certification	9/2014	lwcd
Project evaluation	10/2014	lwcd
Other (specify)		

B. Adequate Financial Budget

Provide the following information for the project. The grant amount is capped at \$150,000.

1.B.1. FINANCIAL BUDGET TABLE

A	B	C
Project Activity for Which <u>DNR Funding</u> is Requested	Estimated Total Cost (\$)	Amount from Column B Eligible for DNR Cost Sharing (\$)
Construction Components:		
Roof Gutters	2,850	2,850
Diversion	937	937
Manure Storage	170,000	170,000
Manure Storage Transfer	60,000	60,000
Livestock Fencing	1,750	1750
1. Construction Subtotal	\$235,537	\$235,537
2. Local Force Account Activities		
3. Private Engineering Activities		
4. Subtotal: [add Rows 1 through 3]	\$235,537	\$235,537
5. Property Acquisition: Fee Title & Easement		
6. Grand Total: [add Rows 4 and 5]	\$235,537	\$235,537

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Cost-Sharing Worksheet
Eligible Costs:

			Cost-Share	
7. Construction, force account, private engineering, etc.		70%	\$	164,876
8. Land Purchase (Fee Title)	\$ -	70%		0
9. Easements	\$ -	70%	\$	0
Eligible Cost Share:				
10. Total Eligible Cost Share: [sum rows 7 thru 9]			\$	164,876
Cap Test:				
11. Maximum State Share: [row 10 or \$150,000, whichever is less]			\$	150,000
State and Local Share:				
12. Requested State-Share Amount (Requested Grant Amount)			\$	
13. Local-Share Amount: [row 6, column B less row 12]			\$	235,537

1.B.2. Method(s) Used to Calculate Cost Estimates:

Average cost based on preliminary design criteria. Cost calculated on per unit basis.

C. Cost-Effectiveness

At a minimum, you must provide narrative answers to Parts C.1. **and** C.2. You are advised to answer Part C.3., although you are not required to do so.

- Describe the environmental benefits this project will achieve. If you have already described this to your satisfaction in the Project Summary (Project Information, Part B), you may answer here, "See Project Summary."
This project will control animal waste runoff that is leaving this site and entering the Fox River and moving downstream impacting Duck Creek and Lake Wisconsin. It will reduce N/P loading into the system. It will allow the producer to contain animal waste and land apply it according to a 590 NPM on his fields. See additional information Project Summary.
- Describe why the proposed management measures are a reasonable means to attain the project benefits based upon such factors as cost, effectiveness, site feasibility, available technical standards, and practicality.
We have approached this site with the most cost effective BMP's available to us.
- If you evaluated one or more alternative management measures, describe why the alternative(s) is not being recommended.
As with all sites we evaluate all the BMP's options looking for the lowest cost/benefit we can engineering to protect water quality. This application represents the most cost effective longterm plan that will provide for longterm management of the BMP.

Question 2. Project Evaluation Strategy

The applicant is required to provide a description of the modeled results or changes in pollution potential in the final project report. The project evaluation strategy will be based on comparing pre- and post-project changes in modeled pollutant loading to water resources or will be based on the quantity of units managed.

A. Modeling and Measures of Change

Pre- and post-project evaluation measures that the applicant will use to ensure success in meeting project goals: (check all that apply)

	Agricultural Performance Standard or Prohibition	Units of Measure	Recommended Measurement Method
<input checked="" type="checkbox"/>	1. Sheet, Rill and Wind Erosion	a. Acres meeting T	RUSLE-2 or wind erosion model
	2. Tillage Setback	a. Feet of bank protected	count
		b. Number of farms	count
<input checked="" type="checkbox"/>	3. Phosphorus Index	a. Acres planned	count
<input checked="" type="checkbox"/>	4. Manure Storage Facilities: New Construction/Alterations	a. Number of facilities	count
		b. Number of animal units	count
<input type="checkbox"/>	5. Manure Storage Facilities: Closure	a. Number of facilities	count

<input type="checkbox"/>	6.	Manure Storage Facilities: Failing/Leaking Facilities	a.	Number of facilities	count
			b.	Number of animal units	count
<input type="checkbox"/>	7.	Process Wastewater Handling	a.	Number of facilities	count
			a.	Number of animal units	count
<input checked="" type="checkbox"/>	8.	Clean Water Diversions in WQMA	a.	Pollutant load reduction	BARNY Model
			b.	Number of farms with diversions	count
			c.	Number animal units	count
<input checked="" type="checkbox"/>	9.	Nutrient Management on Agricultural Land	a.	Acres planned	count
<input type="checkbox"/>	10.	Prohibition: Manure Storage Overflow	a.	Number of facilities	count
			b.	Number of animal units	count
<input type="checkbox"/>	11.	Prohibition: Unconfined Manure Pile in WQMA	a.	Number of farms	count
<input checked="" type="checkbox"/>	12.	Prohibition: Direct Runoff From Feedlot/Stored Manure	a.	Pollutant load reduction	BARNY Model
			b.	Number of facilities	count
			c.	Number of animal units	count
<input type="checkbox"/>	13.	Prohibition: Unlimited Livestock Access	a.	Feet of bank protected	count
			b.	Number of farms	count
Other Priority for Agricultural Area					
<input type="checkbox"/>	14.	Buffers	a.	Feet of bank protected	CREP formula
			b.	Number of farms	count
<input type="checkbox"/>	15.	Stream bank	a.	Tons of bank erosion reduced	NRCS bank erosion formula
			b.	Feet of bank protected	count
<input type="checkbox"/>	16.	Other (specify)			

Yes No

B. Monitoring (not eligible for cost sharing at this time)

- ☐ ☒ The project evaluation strategy will provide pre- and post-project information from water resource monitoring. If "Yes," check all that apply below.
- ☐ ☐ 1. A one-page summary of the monitoring strategy is attached.
- ☐ ☐ 2. The project will evaluate the in-stream physical habitat, fisheries, biological, or chemical conditions.
- ☐ ☐ 3. The project will evaluate BMP pollution reduction effectiveness (e.g., inlet/outlet monitoring).

C. Additional Monitoring

- ☒ ☐ The applicant is willing to participate with the Department to do monitoring in the project area should funding become available.

Question 3. Evidence of Local Support

The level of local support that currently exists for the proposed project.

Yes No

A. Government

- ☒ ☐ 1. **Regulatory Situations** The total project cost is attributed to the resolution of a Notice of Discharge (NOD) or a Notice of Intent to Issue an NOD (NOI) under ch. NR 243 or non-compliance with agricultural performance standards and prohibitions under subch. II of ch. NR 151 or a local regulation and *at least one* of the following is attached to this application form: (check all that apply)
- ☐ a. Signed and dated copy of the NOI or NOD issued under ch. NR 243;
- ☐ b. Signed and dated copy of letter signed by the authorized DNR representative stating that DNR will issue a notice under chs. NR 151 or NR 243;
- ☒ c. Signed and dated copy of letter from the authorized county representative that the local regulation will be enforced at the project site.
- (If you answered "Yes", go to Question 4. Otherwise, continue to Part A.2. of this question.)
2. **Non-Regulatory Situations**
- ☐ ☐ a. The governmental unit has developed:
- ☐ ☐ i. a detailed pollution control plan with the landowners that identifies specific best management practices (BMPs);
- ☐ ☐ ii. general assessments of the pollution sources within the project area.

- ☐ ☐ b. The governmental unit has contacted the landowner(s)/land operator(s) about the proposed BMP installations.
If "Yes," provide details.

Yes No **B. Landowners and Partners**

- ☐ ☐ 1. **Level of Landowner Participation**
- ☐ ☐ a. A majority of the affected landowners/land operators have specifically indicated that they will sign a cost-share agreement (CSA) to install the practices requested in this grant application.
- ☐ ☐ b. A majority of the affected landowners/land operators have indicated a general interest to participate in the project.
- ☐ ☐ c. Letters of support for the project from affected landowners/land operators are attached.
- ☐ ☐ 2. **Involvement of Partners**
- a. Partners, in addition to the unit of government (applicant) and landowner, have committed resources (materials, equipment, staff or financial resources) towards the BMP installation, maintenance, or evaluation of the project.

If "Yes," list the project partner(s).

- ☐ ☐ b. Letters of support from the project partner(s) are attached.

Question 4. Water Quality Needs (check one, A through G)

The water quality category which best identifies the water quality goals for the project **directly deals** with:

Note: For border waters where a DNR approved Basin/Watershed Plan does not exist, another governmental document acceptable to the District Nonpoint Source Coordinator may be used to identify the water quality need.

Surface Water Considerations

- ☐ **A. Clean Water Act section 303(d) List of Impaired Waters**
A water body (lake or stream) on the latest Clean Water Act (CWA) section 303(d) List of Impaired Waters, where the cause of the water quality impairment is nonpoint source pollution, **and this project** will reduce the type of nonpoint source pollutants for which the water is listed. (See **Attachment A**)
- Name of Applicable Impaired Water: _____
- Name of Pollutant Causing Impairment: _____
- ☐ **B. Outstanding or Exceptional Resource Waters or Other Areas of Special Natural Resource Interest**
Prevention of degradation due to nonpoint sources of outstanding resource waters (ORW) (per s. NR 102.10) or exceptional resource waters (ERW) (per s. NR 102.11) or other areas of special natural resource interest (ASNRI)
To locate ASNRI using DNR's Surface Water Data Viewer go to <http://dnrmf.wi.gov/imf/imf.jsp?site=SurfaceWaterViewer.deswaters>. For more information about ASNRI go to http://dnr.wi.gov/org/water/swims/datasets/designated_waters/ASNRI.htm.
- Name of Applicable ORW/ERW or ASNRI: _____
- ☒ **C. Not Fully Supporting Uses**
A water body (lake or stream) identified in a DNR-approved Basin/Watershed Plan as not supporting designated uses due to nonpoint sources, but is not on the section 303(d) List. In newer plans, these waters are categorized as "supporting" (as opposed to "fully supporting") designated uses; in plans prior to 2010 they were labeled as "partially meeting" designated uses.
- ☐ **D. Surface Water Quality**
Prevention of surface water quality degradation due to nonpoint sources. Waters in this category are not high quality, recreationally significant waters.

Groundwater Considerations

- ☐ **E. Exceeds Groundwater Enforcement Standard**
Groundwater within the project area where representative information indicates there are levels for NPS contaminants that exceed groundwater enforcement standards.
- ☐ **F. Exceeds Groundwater Preventive Action Limit**
Groundwater within the project area where representative information indicates there are levels for NPS contaminants that exceed groundwater preventive action limits.
- ☐ **G. Groundwater Quality**
The project area is within a geological area defined in s. NR 151.015(18) as susceptible to groundwater contamination. (see **Attachment F**)

Bonus Points:

Yes No

- ☐ ☒ The project water quality goals identified above relate to the reduction of nonpoint source contaminants in community or non-community public drinking water supplies. This includes any of the following: Municipal water supplies governed by chs. NR 809 and 811; Other-Than-Municipal (OTM) water supplies governed by chs. 809 and 811; Non-Transient water supplies governed by chs. NR 809 and 812; Transient water supplies governed by chs. NR 809 and 812.
1. If "Yes" **and** you checked box E, F, or G above, then mark a, b or c below and move on to question 5. (You will need assistance from your DNR District Grant Coordinator or Water Supply Specialist to answer.)
- ☐ a. Check this box if the project is located: within the wellhead protection area of a municipal well, **or** within 1,200 feet of a municipal well for which a wellhead protection area is not delineated, **or** within 1,200 feet of an "Other-Than-Municipal (OTM)" water supply well, or within 1,200 feet of a non-transient water supply well
- ☐ b. Check this box if the project is located within 200 feet of Transient water supply well.
- ☐ c. Check this box if you did not select a or b.
2. If "Yes" **and** you checked box A, B, C, or D above, then place a check mark next to the drainage area where the project is located (see below).
- | | |
|---|---|
| <input type="checkbox"/> Pike River and Creek | <input type="checkbox"/> Twin Rivers |
| <input type="checkbox"/> Root River | <input type="checkbox"/> Kewaunee and Ahnapee Rivers |
| <input type="checkbox"/> Oak Creek | <input type="checkbox"/> Menominee River |
| <input type="checkbox"/> Milwaukee River | <input type="checkbox"/> Fish Creek |
| <input type="checkbox"/> Sauk Creek | <input type="checkbox"/> St. Louis and Nemadji Rivers |
| <input type="checkbox"/> Sheboygan and Onion Rivers | <input type="checkbox"/> Lake Winnebago |
| <input type="checkbox"/> Manitowoc River | |

Question 5. Extent of Pollutant Control

Applicants must answer both Part A and Part B.

Part A: Pollution Source Description. In a narrative, describe the severity of the pollution sources that will be addressed by this project. Applicants may include quantitative and qualitative information. Photo documentation is encouraged. If this is a TMDL project, express severity in relation to the sources identified in the TMDL report. If this is a project to achieve compliance with one or more performance standards or prohibitions, express severity in relation to the standards.

This project is designed to control 2 NR 151 issues. The first being a barnyard/heifer lot that although is not in the SWQMA area, it does drain directly off lot into a concentrated flow area and then flows a short distance downstream to and intermittment stream that that flows directly into the North Branch of Duck Creek. This lot, has over 60 acres of drainage area that flows directly thru it, moving soluble P and particle P off site. The construction of a clean water diversion and roof gutters along with the construction of a manure storage storage will reduce the impacts of this lot. The second standard addressed is the NMP planning standard. If we are succesful with this grant, and construct the manure storage structure, it will allow the the landowennr to store his manure and apply it where it needs to be applied. As a condition of our local ordinance, the landowner will be required to develop a NMP. Currently, winter and summer applications of manure on this site, are not being done in conjunction with a 590 plan.

Part B: Nature of the Water Quality Impact. Check the "Yes" box if the statement applies to receiving waters that are being affected by the project site. Applicants may check the "Yes" box in the following combinations: Statement 1 only; Statement 2 only; Statements 1 and 2; or Statement 3 only.

Yes No

- ☒ ☐ 1. **General water quality impacts.** The receiving waters experience general resource degradation from nonpoint pollution sources. Cause and effect relationships between the impairments and the specific site to be funded are difficult or impossible to establish. *(Note: This may be chosen if A, C, D, E or F is checked in question 4.)*
- ☐ ☐ 2. **Site-specific degradation.** Site-specific impacts on receiving waters from the site to be funded are observable or measurable such that a cause and effect relationship is clearly evident. *(Note: This may be chosen if A, C, D, E or F is checked in question 4.)*
- ☐ ☐ a. To earn credit for Statement 2, supporting information, such as data summaries or photos, is attached.
- ☐ ☐ 3. **Threats.** There are no nonpoint source impacts observed or measured in receiving waters but the existence of the pollution source is perceived to be a threat. *(Note: This may be chosen if either B or G is checked in question 4.)*

Question 6. Consistency with Other Resource Management Plans

Yes No

- ☐ ☒ The project implements a water quality recommendation from a locally-approved resource management plan, other than a TMDL report, TMDL implementation plan, or County Land and Water Resource Management Plan. (Examples include Smart Growth plans, local storm water management plans, regional water quality plans, or other watershed-based nonpoint source control plans.)

Summarize the water quality recommendation. Describe the recommendation in relation to the goals of this proposed project. Cite the name and date(s) of publication of the document.

Question 7. Use of Additional Funding

Yes No

- ☐ ☒ The applicant is requesting less State Share on row 12 of question 1.B. (Cost-Sharing Worksheet) than it was offered on row 11 of that section.
-

Part III. Eligibility for Local Enforcement Multiplier

Completion of Part III is optional. However, an applicant can increase the final project score by qualifying for a project multiplier. Please carefully review the instructions to complete this part of the application.

Note: Responses to Column D below must match responses to "Project Information" Section C.

Column A State Performance Standards & Prohibitions		Column B Check box if the local ordinance provides full coverage for the state standard or prohibition listed in column A.	Column C Check box if the local ordinance provides partial coverage for the state standard or prohibition listed in column A.	Column D Check box if funding from this TRM project grant will be used to address the state standard or prohibition listed in column A.	Column E Provide citations for each ordinance provision that you are claiming a multiplier for under column B or C.
1.	Sheet, rill, and wind erosion. (NR 151.02)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.	Tillage setback. (NR 151.03)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.	Phosphorus index. (NR 151.04)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.	Manure storage facilities-new/significant alterations. (NR 151.05(02))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.	Manure storage facilities-closure. (NR 151.05(03))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Title 15 Section 15-1-3
6.	Manure storage facilities-existing failing/leaking. (NR 151.05(4))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Title 15 Section 15-1-3
7.	Process wastewater handling. (NR 151.055)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Title 15 Section 15-1-3
8.	Clean water diversions. (NR 151.06)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9.	Nutrient management. (NR 151.07)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10.	Prohibition: Prevention of overflow from manure storage facilities. (NR 151.08(2))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Title 15 Section 15-1-3
11.	Prohibition: Prevention of unconfined manure piles in water quality management areas (within 300 ft. of a stream, 1000 ft. of a lake, or areas where the groundwater is susceptible to contamination). (NR 151.08(3))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Title 15 Section 15-1-3

Small-Scale Ag. TRM Grant Application

CY 2013 Funding

Form 8700-300 (R 1/12)

TRM Grant Project Name:

Columbia Handwritten TRM Small Scale

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12.	Prohibition: Prevention of direct runoff from a feedlot or stored manure into waters of the state. (NR 151.08(4))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Title 15 Section 15-1-3
13.	Prohibition: Prevention of unlimited livestock access to waters of the state where high concentrations of animals prevent the maintenance of adequate sod cover or self-sustaining vegetation. (NR 151.08(5))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Copies of ordinances for which credit is taken in this section are: (choose at least one)

- ☒ Found at this website (provide <http://www.co.columbia.wi.us/columbiacounty/portals/2/ordinance/title15.pdf> most direct web page URL);
- ☐ Attached to this application;
- ☐ Already submitted with another application for CY 2013 funding.

Optional Additional Information

Carefully review the answers to all of the questions above. Is there additional information that will add to the understanding of this project? If so, describe here.

The Columbia County Land and Water Conservation Committee approved at its April 2, 2012 regular meeting to have the LWCD develop and modify the existing Title 15 Animal Waste Management Ordinance to include the updated additions of the most recent NR 151 rule, to include: 1) Process Wastewater Handling 2) Tillage Set back 3) PI Index and 4) NMP as a stand alone condition of compliance. The committee has approved this and agreed to move forward with the draft changes. Draft changes will be worked on in next several months, it is anticipated that these changes and inclusions will be approved and incorporated into the new ordinance before Fall of 2012. We did not claim that under Part III., but it is very likely that these changes will be made before funds from this grant become available.

Applicant Certification

A Responsible Municipal Representative must sign and date the application form prior to submittal to the DNR.

I certify that, to the best of my knowledge, the information contained in this application and attachments is correct and true.

Signature of Responsible Municipal Representative

Date Signed

Kurt R. Calkins
[name and title, please print]

4/16/2012

Kurt R. Calkins, Director of LWCD

- ☒ Completed Municipal Responsibility Resolution (signed in blue ink) (see **Attachment I**) is attached.

Submittal Directions

To be considered for funding, provide the following for each application submitted:

- One copy of the completed application form [DNR Form 8700-300 (R 1/12)] with **original signature in blue ink**;
- Three additional copies of the completed, signed application form;
- One electronic copy of the completed application form in **Microsoft Word format only** plus all attachments and maps on CD.

All application materials must be postmarked by midnight **April 16, 2012**.

Send to: Department of Natural Resources

Small-Scale Ag. TRM Grant Application
CY 2013 Funding
Form 8700-300 (R 1/12)

TRM Grant Project Name:

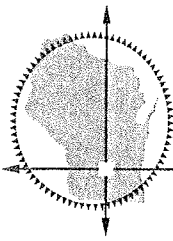
Columbia Henderson
TAM SMALL 2013

Page *16* of *10*

Attn: Linda Talbot, WT/3
101 South Webster Street
Madison, WI 53703

or

P.O. Box 7921
Madison, WI 53707-7921



COLUMBIA COUNTY

Land & Water Conservation

608-742-9670
FAX: 608-742-9840
E-MAIL: land.conservation@co.columbia.wi.us
WEBSITE: www.co.columbia.wi.us

120 West Conant Street
P.O. Box 485
Portage, WI 53901

TRM Grant Enabling Responsibility Resolution

WHEREAS, the Columbia County Land and Water Conservation Department is interested in applying for and obtaining a TRM grant from the Wisconsin Department of Natural Resources for the purpose of implementing measures to control agricultural nonpoint source water pollution (as described in the application and pursuant to ss.281.65 or 281.66, Wis Stats., and chs. NR 151,153 and 155, Wis. Adm. Code) and

WHEREAS, a grant award that includes a request for access to cost share funds is being requested to carry out the project and or projects and

WHEREAS, the Columbia County Land and Water Conservation Department has staff resources in place to carry out project deliverables and to secure required local match to cost share grant funds per program guidelines, and

THEREFORE BE IT RESOLVED, that the Columbia County Land and Water Conservation Committee, authorizes Kurt R. Calkins, Director of the Columbia County Land and Water Conservation Department to act on behalf of Columbia County to submit an application to the Wisconsin Department of Natural Resources for TRM grant funding consideration and complete necessary grant related activities such as:

- Signing and Submitting required contract documentation
- Submitting reimbursement claims upon completion
- Take necessary action to undertake, direct and complete the approved project

BE IT FURTHER RESOLVED that the applicant will comply with all state and federal rules and regulations relating to this project, the cost-share agreements and nonpoint source water pollution.

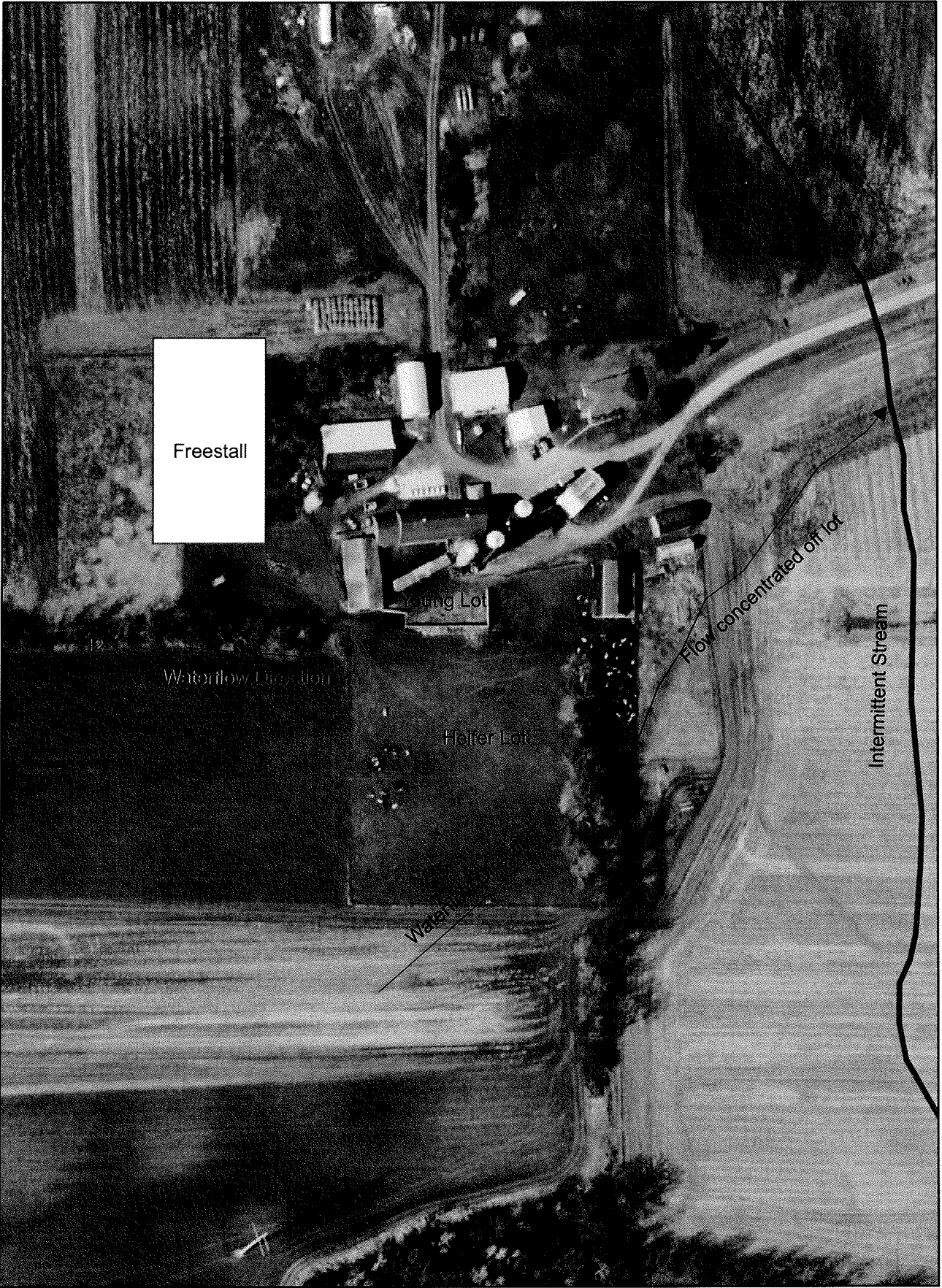
Adopted by Columbia County Land and Water Conservation Committee

Adopted on 2nd day of April, 2012

I hereby certify that the foregoing resolution was duly adopted by, and entered into the official minutes of the Columbia County LWCC at a legal meeting on 4/2/2012.

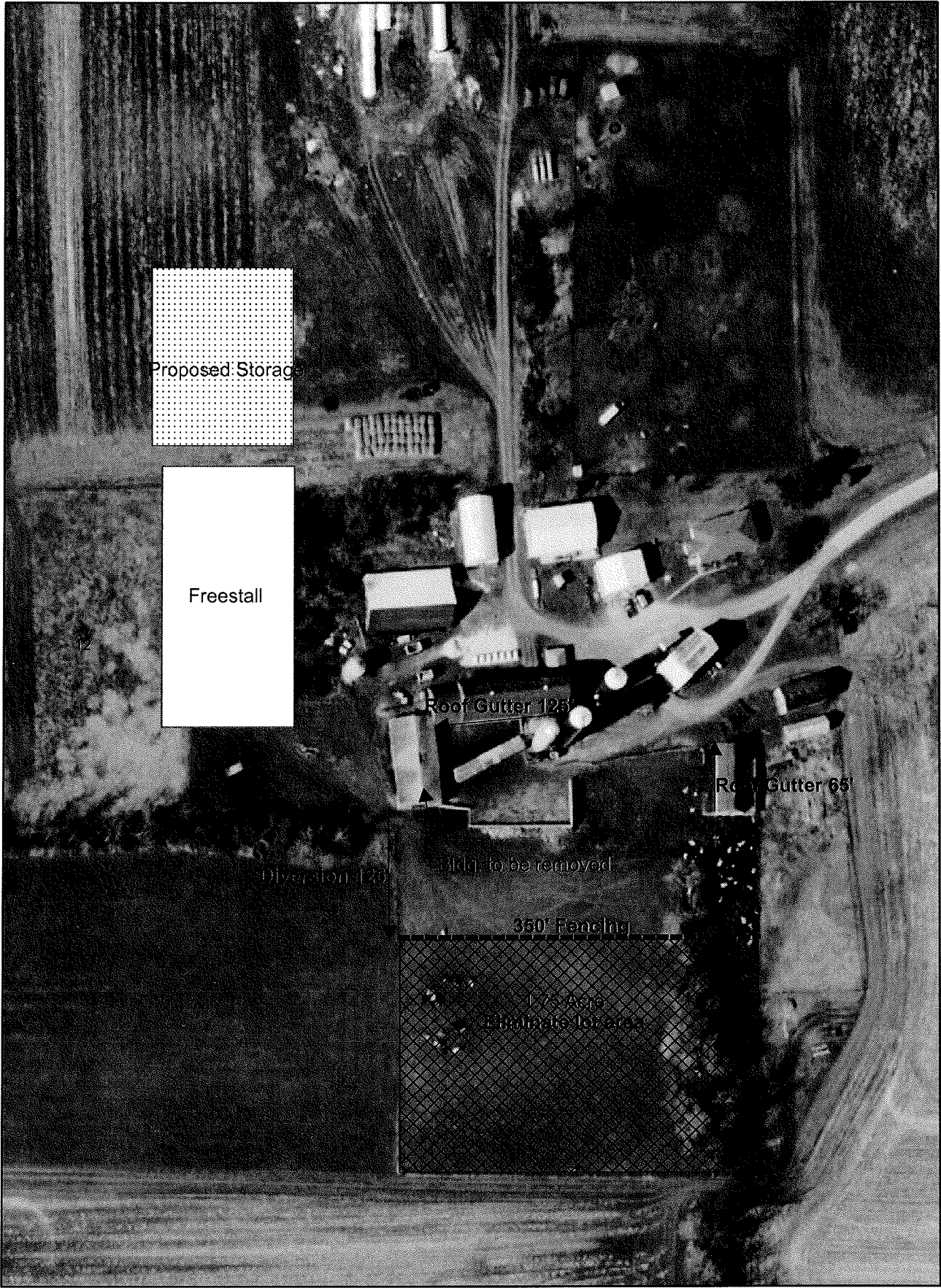
Authorized Signature: Robert L. Hamel
Robert Hamel, Chair LWCC

Existing Hendrickson Site Map



Project Proposal

Attachment
#2



Attachment 3

Philip Heroldrickson N 6782 CTYB
Cambridge 58923

Animal Unit Calculations: Current Number of AUs on Operation							
Animal Type		I. Mixed Animal Units			II. Non-mixed Animal Units		
		b. Equiv. factor	c. Current Number	d. No. of AUs	e. Equiv. factor	f. Current Number	g. No. of AUs
Example - Broilers (non-liquid manure):		0.005 x	150,000	= 750	0.008 x	150,000	= 1200
Dairy/Beef Calves (under 400 lbs)		0.20 x		=	Fed. numbers in this column comply with 40 CFR s. 122.23		
Dairy Cattle	Milking & Dry Cows	1.40 x	160	= 22.4	1.43 x		=
	Heifers (800 lbs to 1200 lbs)	1.10 x	25	= 27.5			
	Heifers (400 lbs to 800 lbs)	0.60 x	50	= 30	1.00 x		=
Beef	Steers or Cows (400 lbs to market)	1.00 x		=			
	Bulls (each)	1.40 x		=	1.00 x		=
Veal Calves		0.50 x		=	1.00 x		=
Swine	Pigs (up to 55 lbs)	0.10 x		=	0.10 x		=
	Pigs (55 lbs to market)	0.40 x		=			
	Sows (each)	0.40 x		=			
	Boars (each)	0.50 x		=	0.40 x		=
Chickens	Layers (each) -non-liquid manure system	0.01 x		=	0.0123 x		=
	Broilers/Pullets (each) -non-liquid manure system	0.005 x		=	0.008 x		=
	Per Bird -liquid manure system	0.033 x		=	0.0333 x		=
Ducks	Ducks (each) -liquid manure system	0.2 x		=	0.2 x		=
	Ducks (each) -non-liquid manure system	0.01 x		=	0.0333 x		=
Turkeys (each)		0.018 x		=	0.018 x		=
Sheep (each)		0.1 x		=	0.1 x		=
Horses (each) Llama		0.2 x	12	= 2.4	2 x		=
200#		Total Mixed Animal Units = 283.9 (add all rows above)			Total Non-Mixed Animal Units = (Enter the single highest number from any row above; DO NOT add the totals)		
Total Animal Units:							

Does operation need a WPDES permit? No!

