State of Wisconsin Runoff Management Section-WT/3 Department of Natural Resources 101 South Webster Street Madison, WI 53703

PO Box 7921 or Madison WI 53707-7921

Targeted Runoff Management (TRM) Grant Program Small-Scale Agricultural Application

Form 8700-300 (R 1/15)

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Var/3 - OGL/3

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.

Refer to the instructions for attachments.		11			
		Applicant	Information		
Calendar Year of Grant Start 2016					
Project Name					
Kaufman Manure Management Project					
Governmental Unit Applying (name and typ	e) (e. g.	Dane County L	and and Water Resources Department)		
Marinette County Land Information De	epartme	ent - Land and	Water Conservation Division		
Governmental Unit Web Site Address	V				
marinettecounty.com					
Name of Responsible Government Official (First Last) Gregory G. Cleereman	- Author	ized Signatory	Name of Government Official - Grant Condifferent)	tact Pers	on (First Last)(if
Title			Title		
Marinette County Conservationist					
Area Code + Phone Number			Area Code + Phone Number		
(715) 732-7783					
E-Mail Address		å 1 <u>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>	E-Mail Address		
gcleereman@marinettecounty.com					
Mailing Address - Street or PO Box			Mailing Address - Street or PO Box		
Courthouse, 1926 Hall Avenue					
City	State	ZIP Code	City	State	ZIP Code
Marinette	WI	54143-1717		WI	
		Part I. Projec	ct Information		
A. Project Category: Total Maximum Dai	ly Load	(TMDL) or Non	n-TMDL		
 TMDL Project: The project must The project is in a geographica The project addresses the mos TMDL document. 	l area co	overed by an EF	g criteria: PA-approved TMDL. ion sources of the agricultural nonpoint poll	utants ide	entified in the
Provide the title of the TMDL report that this	s project	implements. (T	TMDL link: http://dnr.wi.gov/topic/tmdls/tmd	reports.h	tml).
			li Wasa	as Carl San	IVED
Provide a link to the report, if available.				APR 1	5 2015

2. Non-TMDL Project: The project must be designed to achieve attainment of the NR 151 agricultural performance standards and prohibitions.

Provide the document page number(s) that identify the pollutants and sources being addressed by this project.

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TRM Grant Project Name:

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Kautman	Manure	Management	Project
T TO CHATTAICH I	TITULITUE	TATOLICE OFFICER	110,000

B. Location of Project									
See <u>Attachment A</u> and Surfa this question.	ice Water	r Da	ata Viewe	r (SWDV) at <u>http://</u>	dnrmaps.wi.	.gov/SL/?Vie	wer=SWDV for assis	tance in completing
County Marinette				Sta	ate Senate	e District nui 12	mber:	ACCEPTION AND ACCEPTANCE OF	<u>/ District</u> number: 36
Minor Civil Division Name (city, village, town, etc ex. Holland, Town of)	Townsh (N)	hip	Range	E or W	Section	Quarter	Quarter- Quarter	Latitude (North, 4 to 7 decimal places)	Longitude (West, 4 to 7 decimal places)
Lake, Town of	31	N	21	Е	5	NE	SE	45.1877	-87.9062
		N							
		N							
		N							
Method for Determining Lati				Š			, =		
C. Watershed and Waterbo	ody								
See <u>Attachment A</u> and SWD	V at <u>http</u>								
Watershed Name Middle Inlet Lake Noqueba	y		NR Water 309	shed Cod		rimary Wate Noquebay	rbody Name	Nearest W Peterman Bro	/aterbody Name ok
12-digit Hydrologic Unit Cod	e (HUC):	0	40301050	05067		Peshtiq	o Hiver	or UN.	rib to P.B.
http://dnr.wi.gov/top for assistance.) 2. There are archaeo Stats., in the project 3. There are wetlands (Answer with the S http://dnrmaps.wi.	logical sit ot area. in the pro WDV map	es, ojec	historical et area tha yer Wetla	structure at are gov	es, burial s erned by v a tors at	sites, or othe	er historic pla	aces identified in s. 44	aign=20140929_nhiporta I.45, Wis.
E. Maps and Photographs		L#1	W. 752						
Yes			er Ria tell						OTOTAL RESIDENCE SOMETHING
An 8.5" x 11" map from	n USGS	or t	he DNR o	lata/map	viewers,	showing the	project area	, is attached.	
Aerial photo maps and	d project	area	a photos	are also i	ncluded.				
F. Filters Note: The applica below to be eligible for a		oe a	ble to ch	eck "Yes"	' to questi	ons 1 throug	nh 9 and, if a	pplicable "Yes" to que	estions 10 and 11
Yes					or orthographic				
	ntrol agric	ultu	ıral runoff						
2. The applicant certification facilities and non-s	ignificant definitions	exp for	ansions existing	of livesto (existing	ck operati prior to ef	ons into con fective date	npliance with s of standard	ng existing cropland, NR 151 performance ds and prohibitions) a	e standards or
livestock facility or	cropland ad previo	bac	k into co	mpliance	with a per	rformance s	tandard or pi	ment practices to brin rohibition in NR 151 lard or prohibition. (S	when

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TRM Grant Project Name:

Kaufman Manure Management Project

DNR or local unit of government included	a previous offe	er of cost sharing as part of a NR	practices for 151 notice o	which the r county
or work plan prepared under s. ATCP 50.1 plan or Inter-Governmental Agreement wit	2, Wis. Adm. 0 h DNR include	Code, and the approved LWRMP as a qualifying strategy to implem	plan amend	lment, work
Identify the document name and date approved	d by the Land	& Water Board.	1	
Name: Marinette County 2011-2020 Land	& Water Res	source Management Plan	Date	12/07/2010
Goal #3: Control runoff pollution of Objectives: A. Provide technical a agricultural BMP's. b. To demonstrate a qualifying NR 151 implement. Provide page number Page 39; http://www.marinettecounder. 6. The project will be completed within 24 months of proposed project. 8. Staff or contractual services, in addition to	crom agricultingsistance and plementation spers and a websty.com/i_ma	trategy, identify the implementation link or attach hard copy of the parinette/d/2011-2020_lwrm_plant of the grant period. The grant period in the grant period in the grant period in the grant, will be provided if notice that the grant period in the grant, will be provided if notice that the grant period in the grant, will be provided if notice that the grant period in the grant period i	I habitat. or somewhat on strategy of ages. an_8.5_x_1 ge and experienced.	outlined in the approved I.pdf
Name of the Local/DNR Nonpoint Source Coordinator Contacted	Date Contacted	Subjec	et of Contact	
Erin Hanson	04/02/2015	Provided project scopes and	asked for c	omments
livestock numbers is attached. (Form avail	lable at: http://	dnr.wi.gov/topic/AgBusiness/doc	uments/3400	0025A_WT.doc).
	DNR or local unit of government included notice that meets requirements of NR 151 5. The project is consistent with the county L or work plan prepared under s. ATCP 50.1 plan or Inter-Governmental Agreement wit performance standards and prohibitions consistently the document name and date approved the local material and the project was discussed. A To demonstrate consistency with the LV amendment or work plan related to the local #3: Control runoff pollution of Objectives: A. Provide technical and agricultural BMP's. B. To demonstrate a qualifying NR 151 impuly LWRMP document. Provide page number Page 39; http://www.marinettecounter. Staff and contractors designated to work of proposed project. Staff or contractual services, in addition to the project was discussed. Name of the Local/DNR Nonpoint Source Coordinate the project was discussed. Name of the Local/DNR Nonpoint Source Coordinate Coordinator Contacted Erin Hanson 10. If this application is for a livestock facility, livestock numbers is attached. (Form available this is a joint application among local unit the project was a point application among local unit the project was a point application among local unit the project was a point application among local unit the project was a point application among local unit the project was a point application among local unit the project was a point application among local unit the project was a point application among local unit the project was a point application among local unit the project was a point application among local unit the project was a point application among local unit the project was a point application among local unit the project was a point application among local unit the project was a point application among local unit the project was application among local unit the project was a point application among local unit the project was a point application among local unit the project was a point application among local unit the project was application among local unit the project was app	DNR or local unit of government included a previous offer notice that meets requirements of NR 151.09 or NR 151. 5. The project is consistent with the county Land & Water For work plan prepared under s. ATCP 50.12, Wis. Adm. of plan or Inter-Governmental Agreement with DNR include performance standards and prohibitions contained in substance and prohibitions contained in substance in the Land of Name: Marinette County 2011-2020 Land & Water Resea. To demonstrate consistency with the LWRMP, identify amendment or work plan related to the resource(s) of Goal #3: Control runoff pollution from agricultion Objectives: A. Provide technical assistance and agricultural BMP's. b. To demonstrate a qualifying NR 151 implementation s LWRMP document. Provide page numbers and a web Page 39; http://www.marinettecounty.com/i_ma. 6. The project will be completed within 24 months of the stance of the local DNR Nonpoint Source Coordinator (see http://www.marinettecounty.com/contacted DNR Nonpoint Source Coordinator (see http://www.marinettecounty.com/contacted DNR Nonpoint Source Coordinator Contacted Date Date Contacted Date Contacted Date Date Date Contacted Date Date Date Date Date Date Date Date	DNR or local unit of government included a previous offer of cost sharing as part of a NR notice that meets requirements of NR 151.09 or NR 151.095. The project is consistent with the county Land & Water Resources Management Plan (LV or work plan prepared under s. ATCP 50.12, Wis. Adm. Code, and the approved LWRMP plan or Inter-Governmental Agreement with DNR includes a qualifying strategy to implem performance standards and prohibitions contained in subch. Il of NR 151. Identify the document name and date approved by the Land & Water Board. Name: Marinette County 2011-2020 Land & Water Resource Management Plan a. To demonstrate consistency with the LWRMP, identify the goals, objectives or activities amendment or work plan related to the resource(s) of concern being addressed by the Goal #3: Control runoff pollution from agricultural lands and increase natura Objectives: A. Provide technical assistance and cost sharing for constructed agricultural BMP's. b. To demonstrate a qualifying NR 151 implementation strategy, identify the implementati LWRMP document. Provide page numbers and a web link or attach hard copy of the prage 39; http://www.marinettecounty.com/i_marinette/d/2011-2020_lwrm_pl 3. The project will be completed within 24 months of the start of the grant period. Staff and contractors designated to work on this project have adequate training, knowledge proposed project. Staff or contractual services, in addition to those funded by this grant, will be provided if not the project was discussed. Name of the Local/DNR Nonpoint Source Coordinator (see http://dnr.wi.gov/topic/nonpoint/NPScort the project was discussed. Name of the Local/DNR Nonpoint Source Contacted Contacted Subjectives and since the project was discussed. Name of the Local/DNR Nonpoint Source Contacted Contacted Subjectives and since the project was discussed. If this application is for a livestock facility, an Animal Units Calculation Worksheet (Form livestock numbers is attached. (Form available at: http://dnr.wi.gov/topic/A	DNR or local unit of government included a previous offer of cost sharing as part of a NR 151 notice on notice that meets requirements of NR 151.09 or NR 151.095. The project is consistent with the county Land & Water Resources Management Plan (LWRMP), plan or work plan prepared under s. ATCP 50.12, Wis. Adm. Code, and the approved LWRMP plan amend plan or Inter-Governmental Agreement with DNR includes a qualifying strategy to implement state agreerformance standards and prohibitions contained in subch. It of NR 151. Identify the document name and date approved by the Land & Water Board. Name: Marinette County 2011-2020 Land & Water Resource Management Plan a. To demonstrate consistency with the LWRMP, identify the goals, objectives or activities from the LV amendment or work plan related to the resource(s) of concern being addressed by the project. Goal #3: Control runoff pollution from agricultural lands and increase natural habitat. Objectives: A. Provide technical assistance and cost sharing for constructed or somewhagricultural BMP's. b. To demonstrate a qualifying NR 151 implementation strategy, identify the implementation strategy of LWRMP document. Provide page numbers and a web link or attach hard copy of the pages. Page 39; http://www.marinettecounty.com/i_marinette/d/2011-2020_lwrm_plan_8.5_x_l

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TRM Grant Project Name: Kaufman Manure Management Project

G. Best Management Practices (BMPs) for which DNR TRM Funding is Requested.

Check all BMPs for which DNR funding is requested and insert the Performance Standard and Prohibition codes the BMP addresses, if applicable. See instructions Part I. G. for table of standards and prohibition codes and effective dates.

(Also see Attachment D for additional BMP information.) Assure a budget for each BMP is included in Part II. A

Structural Practice (Wis. Adm. Code)	Enter Code #s: Performance Std.(s) or Prohibition(s) the BMP Addresses	Structural Practice (Wis. Adm. Code)	Enter Code #s: Performance Std.(s) or Prohibition(s) the BMP Addresses
Manure Storage Systems (NR 154.04(3)) R16	Code(s) 4	Riparian Buffers (NR 154.04(25)) R23	Code(s)
Manure Storage System Closure (NR 154.04(4)) R15	Code(s)	Roofs (NR 154.04(26)) R25	Code(s)
Barnyard Runoff Control Systems (NR 154.04(5)) R3	Code(s)	Roof Runoff Systems (NR 154.04(27)) R24	Code(s)
Access Roads & Cattle Crossings (NR 154.04(6)) R1	Code(s)	Sediment Basins (NR 154.04(28)) R26	Code(s)
Animal Trails and Walkways (NR 154.04(7)) R2	Code(s)	Sinkhole Treatment (NR 154.04(30) R28	Code(s)
Critical Area Stabilization (NR 154.04(10)) R6	Code(s)	Subsurface Drains (NR 154.04(33)) R30	Code(s)
Diversions (NR 154.04(11)) R7	Code(s)	Terrace Systems (NR 154.04(34)) R31	Code(s)
Field Windbreaks (NR 154.04(12)) R8	Code(s)	Underground Outlets (NR 154.04(35)) R32	Code(s)
Filter Strips (NR 154.04(13)) R9	Code(s)	Waste Transfer Systems (NR 154.04(36)) R33	Code(s)
Grade Stabilization (NR 154.04(14)) R10	Code(s)	Wastewater Treatment Strips (NR 154.04(37)) R34	Code(s)
Heavy Use Area Protection (NR 154.04(15)) R11	Code(s)	Water and Sediment Control Basins (NR 154.04(38)) R35	Code(s)
Lake Sediment Treatment (NR 154.04(16)) R12	Code(s)	Waterway Systems (NR 154.04(39)) R36	Code(s)
Livestock Fencing (NR 154.04(17)) R13	Code(s)	Well Decommissioning (NR 154,04(40)) R37	Code(s)
Livestock Watering Facilities (NR 154.04(18)) R14	Code(s)	Wetland Development or Restoration (NR 154.04(41)) R38	Code(s)
Prescribed Grazing (NR 154.04(22)) R20	Code(s)	Streambank and Shoreline Protect (NR 154.03(31)) (includes associat	
Relocate or Abandon Animal Feeding Ops. (NR 154.04(23)) R21	Code(s)	Stream Crossing R39C	Code(s)
Process Wastewater Handling (NR	154.04(19) & NRCS 629)	Rip-rapping R39R	Code(s)
Milking Center Waste Control Systems R17	Code(s)	Shaping & Seeding R39S	Code(s)
Feed Storage Leachate R52	Code(s)	Fencing R39F	Code(s)
Other Wastewater - specify in "Other" below	Code(s)	Other Protection - e.g. bio- engineering - specify in "Other" below R390	Code(s)
Other (specify)			

TRM Grant Project Name:

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A 10	3. above. The grant amou			Maria de la como		В
Detailed List of Project Activities and Sub-activities Eli	gible for DNR Cost Shari	ina				Amount Eligible for DNR Cost Sharing (\$)
Construction Components:						Diff. Cook channing (4)
Strip 3330 cu yds topsoil for the manure storage and	leachate collection				T	10,090
Fill 3159 cu yds						15,79
Crushed Limestone 108 cu yds	N N N HALL			D. 1		1,944
Breaker run 108 cu yds	. ,		2.4			1,944
Saw cut and remove concrete						300
Shaping and finishing 2 ac site					T	3,500
6" concrete slab (25,960 sq ft storage and 1200 sq ft	leachate)				\top	101,850
2 foot wall 90 lin ft for storage	, , , , , , , , , , , , , , , , , , , ,		dan -		1	2,250
Manure storage fence 700 lin ft			1962-		+	7,000
12 - 10 foot gates and 12 gate posts for storage	(1				\top	4,200
Seeding 2 acre site					\top	1,000
Excavation 3159 cu yds manure storage and 237 cu y	ds for leachate					24,372
Clear stone 20 cu yds for leachate					\top	400
Trenching 1000 lin ft for leachate					\top	5,000
Clean sand 578 cu yds (pipe bedding)					\top	2,890
Crushed limestone 174 cu yds			- 2		\top	3,132
8 foot wall 60 lin ft	i di was Pa	1.5	1		T	5,400
8" concrete slab 200 sq ft			1		1	1,200
9.5" concrete lid 264 sq ft					T	2,904
2" X 4' X 8' polystyrene sheets 8					+	360
Leachate pump					T	12,000
Leachate pump wiring				1	\top	5,000
"6 PVC pipe 1000 lin ft, 4 clean outs, and 4 elbows					1	18,200
5" concrete slab 13,464 sq ft for storage			1		1	43,578
Private Engineering Activities						
Construction Subtotal						274,309
2. Local Force Account Activities (Entry is limited to \$10,71	5 or .05263 of Row 1, which	cheve	r is less	s.)		
Cost-Sharing:						
A	В) 		D Chaille Cont Chair
Construction-related Subtotal: [add Rows 1 and 2]	### Eligible Project Total \$ 274,3	VARIABLE CO.	70	hare %	\$	Eligible Cost-Share
Property Acquisition: Fee Title & Easement	\$	309	70	%	\$	172,010
Project Grand Totals: [add Rows 3 and 4]	\$ 274,3	300	70	70	\$	192,016
Cap Test:	Ψ 214,	507			1	172,010
6. Maximum State Share: [row 5, column D or \$150,000, w	hichever is less1				\$	150,000
State and Local Share:	version of the control of the design of the second					100,000
7. Requested State-Share Amount (Enter Requested Gran	t Amount)				\$	150,000
8. Local-Share Amount: [row 5, column B less row 7]					\$	124,309

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TRM Grant Project Name:

Kaufman Manure Managemen	Project
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	Ch	The requested state-share amount in row 7 is less than the \$150,000 grant cap.
22		The requested state-share amount in row 7 is below the maximum state-share in row 6. (The resulting cost-share rate is less than 70%.)
		Used to Calculate Cost Estimates: Select the appropriate option. Attach design, bid, estimate documentation, icable.
0	1.	Project costs are based on completed design and competitive bid on the project. Construction components and costs above should be detailed. Provide the supportive documentation attached to this application.
•	2.	Project costs are based on completed design with materials and labor costs based on similar, recently bid projects. Construction components in C. above should be detailed. Provide the supportive documentation in this application.
0	3.	Project design is not complete; however, the proposed project and costs are based on similar and recent projects and costs. Provide as much construction detail in C. above as possible. Provide the supportive documentation in this application
0	4.	Project design is not complete and the cost estimate is based on an average or a range of projects and costs. Provide as much construction detail in C. above as possible. Provide the supportive documentation in this application.
\circ	5.	Project and costs are less specific than choices above. Provide explanation of cost estimates below or attached to this application.

Milestone	Target Completion Date (month/year)	Source of Staff
Completion of design	04/2015	Marinette County
Obtaining required permits	6/2016	Landowner
Landowner contacts	06/2016	Marinette County
CSA signing	06/2016	Landowner & Marinette County
Bidding	08/2016	Landowner
DNR approvals	08/2016	Marinette County
Contract signing	08/2016	Landowner & Contractor(s)
BMP construction	09/2016	Contractor(s) & Landowner
Site inspection and certification	10/2016	Marinette County
Project evaluation	10/2016	Marinette County
Other (specify)		
Operation & Maintenance Checks	11/2026	Marinette County

D. Water Quality Need Category – The project must be consistent with at least one of the following seven watershed priorities.

Check the one category (surface or groundwater) which best identifies the water quality priority which the project directly addresses. See the instructions for category definitions and scoring information.

<u>Surface Water Considerations</u> For assistance with this section, consult the DNR's web pages provided below, see the <u>instructions</u> and see <u>Attachment A</u> of the instructions.

0	1.	Clean Water Act section 303(d) List of Impaired Waters Name of Applicable Impaired Water:		
		Pollutant Causing Impairment:		

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•	2.	Outstanding or Exceptional Resource Waters (ORW/ERW), Area of Special Natural Resource Interest (ASNRI) - To locate ASNRI using DNR's Surface Water Data Viewer go to http://apwmad0d1600/SL/Viewer.html?Viewer=SWDV&runWorkflow=DesignatedWaters . Name of Applicable ORW/ERW or ASNRI: Lake Noguebay, Peterman Brook
0	3.	Not Fully Supporting Uses or NPS Ranking of High or Medium.
0	4.	Surface Water Quality
Bor	านร	Points: Federal NPS Program Watershed Project Funding Eligibility
\boxtimes	Ch	neck this box if the project meets all of the following criteria:
ak	• T (• T • T	The project addresses a nonpoint source impaired waterbody listed on the most current EPA-approved Section 303(d) list of impaired waters or a nonpoint source threatened unimpaired/high quality water. The project is located upstream of and in the same 12-digit hydrologic unit (sub-watershed) as the 303(d) listed water or he unimpaired/high quality water. Refer to Attachment A and http://dnrmaps.wi.gov/SL/?Viewer=SWDV for assistance.) The project implements the goals and recommendations of an EPA-approved watershed-based "9 key element" plan. The project controls the same NPS pollutants which are impairing the 303(d) listed waterbody or threatening the unimpaired/
	Th	igh quality water. e project may be eligible for Federal NPS Program (Clean Water Act Section 319) Watershed Project Funding. (Refer to achment C of the application instructions for a list of eligible plans or link to map and plans at: http://dnr.wi.gov/water/9kemp/ .)
	Pr	ovide the title of the EPA-approved nine key element plan this project implements.
	No	onpoint Source Control Plan for the Lake Noquebay Priority Watershed Project
S	eci	dwater Considerations For assistance with this section, consult the local DNR Drinking Water and Groundwater alist (http://dnr.wi.gov/topic/drinkingwater/documents/countycontacts.pdf) or the County Extension Office. h supporting documentation.
O	5.	Exceeds Groundwater Enforcement Standard Pollutant Causing Impairment:
0	6.	Exceeds Groundwater Preventive Action Limit Pollutant Causing Impairment:
0	7.	Groundwater Susceptible to Contamination by Agricultural Nonpoint Source Pollutants
. Dr	inki	ing Water Bonus Points:
es/		
]	gov	neck this box if the project water quality goals identified above relate to the reduction of nonpoint source contaminants in mmunity or non-community public drinking water supplies. This includes any of the following: Municipal water supplies verned by chs. NR 809 and 811; Other-Than-Municipal (OTM) water supplies governed by chs. 809 and 811; Non-Transient ter supplies governed by chs. NR 809 and 812.
	1.	If "Yes" and you checked box 5, 6, or 7 above, then mark a, b or c below and move on to question F. (You will need assistance from your local DNR Nonpoint Source Coordinator (http://dnr.wi.gov/topic/nonpoint/NPScontacts.html) or Water Supply Specialist (http://dnr.wi.gov/topic/drinkingwater/documents/countycontacts.pdf) to answer.)
	0	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
	0	b. Check this box if the project is located within 200 feet of Transient water supply well.
	0	c. Check this box if you did not select a or b.
	2.	If "Yes" and you checked box 1, 2, 3, or 4 for surface water considerations above, then place a check mark next to the drainage area where the project is located (see below).

Sma	III-Scale Ag. TRM Grant Applicatio	n	TRM Grant Project Name:	
orm	8700-300 (R 1/15) Page 8 of 1	5	Kaufman Manure Management Project	
			9	
	Pike River and Creek		☐ Twin Rivers	
	Root River		Kewaunee and Ahnapee Rivers	
	Oak Creek		Menominee River	
	Milwaukee River		Fish Creek	
	Sauk Creek		St. Louis and Nemadji Rivers	
	Sheboygan and Onion Rivers		Ot. Louis and Norhadji Nivers	
	Manitowoc River		Lake Winnebago	
	Ivialillowoc River			
F. Na	ature of the Water Quality Impact. Chec e project site.	ck the box if the stater	ement applies to receiving waters that are being affected by	e Ei
0	pollution sources. Cause and effect re	elationships between	sperience general resource degradation from nonpoint n the impairments and the specific site to be funded are difficul 1, 3, 4, 5 or 6 is checked in D. Water Quality Needs.)	lt
0	 Site-specific degradation. Site-specific such that a cause and effect relations Quality Needs.) 	cific impacts on receiv ship is clearly evident.	iving waters from the site to be funded are observable or meas t. (Note: This may be chosen if 1, 3, 4, 5 or 6 is checked in D.	surable Water
	Supporting information, such as of	lata summaries or ph	hotos, is attached. (Required to earn credit for statement 2.)	
•			or measured in receiving waters but the existence of the pollu osen if 2. or 7. is checked in D. Water Quality Needs.)	ıtion
G. P	roject - Describe the water quality proble	em, the solution being	ng proposed and the expected environmental improvements.	
1. D	escribe the pollution problem(s) at the	site and its effect o	on water quality (on site and off site).	
	Prohibitions (PS&Ps) and/or TMDL goals Describe how pollutants are conveyed to surface or ground water, frequency, mag (Recommendation: attach photos of pollwater and mention photos here.)	s that need to be addro waters of the state, t gnitude and/or duratio ution source areas, po	the project site? What are all of the Performance Standards & dressed on the site? How does the site impact water quality? the distance(s) between source(s) and discharge points or are on of discharge(s), etc. What is the current, estimated pollutan pollution conveyance to waters of the state and the affected rephorus, nitrogen, organic matter, and Biochemical Oxygon.	it load? ceiving
			compared to untreated domestic sewage:	
	, 8			
		Material	BOD mg O2/L of Pollutant	
		Raw Domestic Se		
		Cattle Slurry	10,000-20,000	
		Silage Effluent	30,000-80,000	
		Milk	140,000	
		75		

The POLLUTANT SOURCES are food leachate, manure, milk house and urine from approximately 300 dairy cows, 210 heifers and 50 calves totaling 606 animal units.

This project will address the following Performance Standards and Prohibitions (PS&P): NR 151.05 MANURE STORAGE FACILITIES PERFORMANCE STANDARDS (2); NR151.055 PROCESS WATERHANDLING PERFORMANCE STANDARD (1); NR151.08 MANURE MANAGEMENT PROHIBITIONS (4); and NR151.07 NUTRIENT MANAGEMENT (1).

Cattle are maintained in a free stall barn, loose housing and a calf barn. THE SITE AFFECTS WATER QUALITY BECAUSE THE EXISTING MANURE STORAGE IS TOO SMALL, and only has capacity for four months of manure generation, resulting in winter manure spreading on fields which drain to the wetlands which recharge both the Lower Peshtigo River and Lake Noquebay, a former Priority Watershed Project. Almost 930,000 gallons of runoff from the feed storage pad are not collected and allow to flow overland to wetlands on both sides of the farm stead. The Waste Storage Facility Design Spreadsheet estimates cattle on this site will generate an additional

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2,463,042 gallons of manure and waste water annually that will need to be properly incorporated. The owned land base for waste utilization totals 330 acres. The ratio of cropland acres to animal units is 1.4:1. A ratio of 3:1 is considered optimum to avoid build up of excess soil phosphorus. Please see the attached Manure Spreading Restriction aerial photos which show owned cropland in both watersheds.

The EFFECT on WATER QUALITY is POTENTIAL FISH KILLS in the streams adjacent to the farms crop lands due to winter spread manure and leachate runoff. The project will also minimize the amount of phosphorus reaching Lake Noquebay. The Lake Noquebay Rehabilitation District already implements an extensive harvesting operation to remove aquatic plants which impede navigation. This farm also rents significant acreage in the watershed. The parcels receiving manure vary each year. The producer may not have thorough knowledge of how melting snow drains off the parcel and may not know which areas to avoid. If we entirely end winter manure spreading, the threat goes away.

The POLLUTANT LOAD is the estimated 1,000,000 gallons of manure and waste water being deposited on frozen and/or snow covered ground annually and overland flow of 930,000 of feed leachate.

2. Describe the project.

What is this project? What pollution problem(s) described above will be addressed with this project and how? How much of the pollution problem(s) associated with this site/operation will this project address? Which of the NR 151 PS&Ps or TMDL goals identified above will this project address? Which, if any, will remain to be addressed (and why)? Will the remaining PS&Ps be addressed with other funding sources in the same timeframe as this project or will they need to be addressed in subsequent years/grants?

The POLLUTION PROBLEMS are winter spreading of manure and feed leachate leaving the farm site via overland flow to wetlands the west. The wetlands west of the feed storage are the headwaters of Peterman Brook. As shown in the topographic map, the farm and adjacent croplands are on a hill which drains to wetlands that nearly surround the farm. Much of the cropland shown on MRS map 1 of 2 are restricted from receiving winter spread manure.

Where practical, the clean water on the site will be diverted to avoid contact with animal waste. PROCESS WATER HANDLING practices for FEED STORAGE LEACHATE will be installed. A WASTE TRANSFER SYSTEM will collect and convey feed leachate to the newly expanded MANURE STORAGE FACILITY. The manure storage is sized to hold the additional contaminants. The existing undersized manure storage pit was installed and inspected under the guidance of Marinette County and therefore meets the counties ordinance requirements. The new manure storage will be sized (203,236 Ft.3) to hold the manure, milk house waste and feed leachate for seven months. A NRCS 590 Standard compliant NUTRIENT MANAGEMENT plan will be implemented.

All of the PS&Ps identified in Question II G.1. will be addressed by this project and bring the farm into compliance with NR151 standards and prohibitions within the grant time frame. Instead of totally unconfined manure, the manure storage/feed leachate will be a zero runoff system. All of the manure, waste water, and uneaten food will be be spread following a NRCS 590 Standard compliant NUTRIENT MANAGEMENT PLAN. No animal waste will leave the manure storage and be spread on frozen or snow covered ground.

With the conclusion of the project, NO ADDITIONAL PS&Ps will need to be addressed.

3. Describe the expected environmental improvements.

How effective will this project be in solving the pollution problem(s) and water quality impacts described above? What is the expected percent reduction in pollutant loading or pollution potential after this project is completed? What is the compliance level with NR 151 PS&Ps that will be achieved with completion of this project and what will remain to be addressed? What is the potential for water quality improvement of the receiving water?

Primary Water Quality benefits include 100 % ELIMINATION OF CONTAMINATED RUNOFF FROM THE FARM SITE and ENTIRELY ENDING WINTER SPREADING OF MANURE PRODUCED BY THIS OPERATION. Manure management will meet requirements established in NR151.07 and ATCP 50.04 (3).

This farm will be in FULL COMPLIANCE with NR151 PS&Ps. Zero runoff from the farm site, no unconfined manure or feed stacking, no winter spreading of manure, and full implementation of their nutrient management plan. Marinette County adds an addendum to Targeted Runoff Management cost share agreements stating, "That any and

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all manure stored in the storage facility designed to be emptied annually or semi-annually may not be applied on frozen or saturated ground and shall be incorporated within 3 days after application.

From the WDNR website: A stretch of Peterman Brook is currently listed as a class II trout stream from the middle of section 32 to the west side of section 32 T32N R21E, which is about 1.1 stream miles of the total. The remainder of the stream is non-trout water, and the stream flows into the Peshtigo River. A fish survey report in 1994 described poor land practices and livestock pasturing along with beaver problems as the causes for sedimentation and deteriorated the stream ecosystem in Peterman Brook. The trout stream section contained brook trout, but its habitat was being threatened. The Index of Biological Integrity (IBI) calculated from the fish survey was 70 in 1994 and the Integrity Rating was good in the section of the stream classified as trout water.

A portion of Peterman Brook is a Class II trout water. If not for the impacts of nonpoint pollution, more of the brook would be trout water. This project will reduce the risk of fish kills in Peterman Brook and the amount of phosphorus reaching Lake Noquebay, arguably Marinette County's most important recreation water body. The Lake Noquebay Rehabilitation District already implements an extensive harvesting operation to remove aquatic plants which impede navigation.

H. Cost-Effectiveness

 a. Explain how the proposed best management practices are a reasonable means to achieve NR 151 Performance Standards and Prohibitions (PS&Ps) or TMDL water quality goals. Include factors such as cost-effectiveness, site feasibility, available technical standards, and practicality. If applicable, include information to demonstrate that BMP(s) are sized to meet current and allowable insignificant growth needs of the operation (e.g. concrete pads for barnyards, feed storage, etc.) to achieve PS&Ps and water quality goals.

The main WATER QUALITY GOALS for this project are to eliminate contaminated runoff from field spread manure, end winter spreading of manure and fully implement a 590 compliant nutrient management plan. Implementation of a nutrient management plan is very difficult without a storage facility. A storage facility, properly sized using the WASTE STORAGE FACILITY DESIGN - 313 STANDARD FORM, minimizes the impact of weather, facilitates testing of manure for nutrient content, and lessens management constraints on the producer.

In this situation, the existing manure storage facility is sound, but under sized. A new system will be built immediately adjacent to it. Together, the two storages will hold the all waste generated, including feed leachate. Although gravity flow is the preferred method of conveyance for leachate, the topography of the site requires the leachate to be collected and pumped to the existing manure storage.

LWCD staff match the site and preferred management style to the locations and layout of BMP's. Before visiting the farm site, aerial photos, topographic maps and soil survey maps were viewed to aid in setting preliminary design parameters. To further investigate local geological conditions, soil investigation logs from neighboring farms (when available) were reviewed. We also have soil logs from a previous project.

At the initial site visit LWCD staff met with the landowner to assess and record current management style and future management objectives. SITE FEASIBILITY was checked for obvious physical limitations affecting the location, type, size or depth of structures that can be built. Animal types, numbers and weights, bedding type and volume, manure consistency, housing type, rolling herd average, and desired storage duration were all obtained and recorded. Using DATCP and NRCS parameters, applicable pollutant delivery computer models were run and structures designed to address water quality needs for the site and based on the winter spreading restrictions of the cropland receiving manure.

The preliminary design and knowledge of the site are used to estimate quantities needed to construct the best management practices needed to address the water quality needs for the site. Marinette County has created a spreadsheet that calculates the average cost of BMP components for the last three years. The spreadsheet is then "proofed" by randomly calling local contractors and soliciting their prices for commonly used materials. Finally, the estimated cost is calculated by integrating competitive bids and the average costs for materials from past projects. Each year costs are reviewed and updated to ensure accurate estimates.

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b. DNR requires that new or substantially altered manure storage facilities be designed to meet the applicable NR 151 PS&Ps. Typically, a manure storage facility that is designed and maintained to provide 180 days of storage is sufficient to meet NR 151 PS&Ps. The state share should be based only on the cost to construct a facility to meet NR 151 PS&Ps. Submit the WASTE STORAGE FACILITY DESIGN - 313 STANDARD worksheet or equivalent information to support the facility size and cost information submitted in this application.

Marinette County designs and builds manure storages with a minimum of 7 months (210 days) capacity. The case for this practice has been thoroughly made the last two years. In 2013, a very late spring resulted in a very late start to a manure spreading season that did not end until mid June. Many manure storages were full past the MOL before manure spreading could start. Fortunately, with the additional capacity, they did not overflow.

This past cold, wet fall, many fields froze solid before they dried out enough to spread manure on. Corn still remains unharvested on some fields. Many county farms went into this winter with significant amounts of manure still in storage. The extra capacity we design into manure storage facilities may be critical to avoid over flow or manure spreading issues.

If other alternative management measures were evaluated, list them here and describe why the alternative(s) is not being recommended.

There is no alternative to a manure storage facility for full implementation of a NRCS Technical Standard 590 compliant nutrient management plan. Based on the soil test hole investigations in the area, the native soil at the site will not meet NRCS specifications for earthen manure storage structure construction. When managing for dairy manure, the preferred options include in-ground concrete lined facilities or above ground slurry stores. We install an in ground concrete lined manure storage facility because it offers the least cost and has the lowest risk of failure. The alternative slurry store has higher maintenance needs and depends more heavily on active management for success. Due to our extreme weather conditions, above ground pumps and valves have a higher failure rate and must be more intensely managed, leading to a greater likelihood of manure spills. For years we have compared the costs and found the in-ground concrete facility averaged about 1/3 less cost than the above ground slurry store.

I. Project Evaluation Strategy

1. Project Modeling and Measures of Change

Describe the strategy that will be implemented to evaluate the pre- and post-project pollution potential and pollutant loading data that is required for the Final Project Report. Describe the pre- and post-project evaluation modeling methods and measures that the applicant will use to measure success in achieving the NR 151 PS&Ps or TMDL project goals. See the instructions for lists of BMPs, PS&Ps, modeling and measurement methods and units of measure.

LWCD staff will count the new storage facilities, number of animal units and acres of cropland implementing nutrient management planning (includes cessation of winter manure spreading) for the Final Report.

If, in ad	dition	by Monitoring (not eligible for cost sharing at this time) to the above, the project evaluation strategy includes evaluating BMP effectiveness and/or pre- and post-project be monitoring, and the information will be provided to DNR, check all that apply below.
☐ b. 7 ☐ c. 7	The pr	page summary of the project-specific BMP and/or water resource monitoring strategy is attached. oject will evaluate BMP pollution reduction effectiveness (e.g., inlet/outlet monitoring). oject will evaluate the in-stream physical habitat, fisheries, biological, or chemical conditions. oplicant is willing to participate with the Department to do monitoring in the project area should funding become available
J. Eviden	ce of	Local Support that currently exists for the proposed project - check the applicable situation below.
O of In	tent to	ry Situations - The total project cost is attributed to the resolution of a Notice of Discharge (NOD) or a Notice of Issue an NOD (NOI) under NR 243 or non-compliance with agricultural performance standards and as under subch. If of NR 151 or a local regulation and at least one of the following is attached to this of form: (check all that apply).
	a.	Signed and dated copy of the NOI or NOD issued under NR 243;
	b.	Signed and dated copy of letter signed by the authorized DNR representative stating that DNR will issue a notice under 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.

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If you checked J.1., then go on to Question K. If this project is not regulatory, continue to number 2. of this question.

- 2. Non-Regulatory Situations Check the applicable situation below.
- The governmental unit has:
 - a. Developed a detailed pollution control plan with the landowner(s)/land operator(s) that identifies specific BMPs and the affected landowner(s)/land operator(s) indicated that they will sign a cost-share agreement to install the practices requested in this grant application; or
 - b. Conducted general assessments of the pollution sources within the project area and affected landowner(s)/land operator(s) indicated a general interest to participate in the project; or
 - c. Contacted the landowner(s)/land operator(s) about the proposed BMP installations; however, landowner(s)/land operator(s) participation is undetermined.
 - d. If a. or b. is checked, letters of support for the project from affected landowner)/land operator are attached.

If a., b. or c. is checked above, provide details here.

LWCD staff have met with the landowner on site and discussed a preliminary project design, the TRM grant process, the CSA process, and necessary permits, The landowner has provided a letter (attached) explaining his commitment to installing the prescribed BMP's.

3. Involvement of Partners - check box if applicable.

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 checked, list the project partner(s).

Our Marinette County UW-Extension agent works with our project landowners, especially relating to nutrient management.

NRCS assists with site surveying, BMP design and certification, and possibly cost sharing.

Letters from the project partner(s) indicating the resources they committed to support the project are attached. (Letters of resource support must be attached for a score here.)

K. Consistency with Other Resource Management Plans

Check this box if the proposed project implements a water quality recommendation from a locally approved resource management plan. Examples include Smart Growth plans, Legacy Community plans, Water Star plans, local Storm Water Management plans, wellhead protection, lake management, regional water quality plans, Remedial Action plans and other watershed-based nonpoint source control plans.

(This question does not include a TMDL report or implementation plan, or a County Land and Water Resource Management Plan.)

Cite the name and date(s) of publication of the document. Attach pertinent page(s) or provide URL and page numbers. Summarize the water quality recommendation(s) and describe how it relates to the goals of this proposed project. (Required to earn credit for K.)

The Marinette County 20-Year Comprehensive Plan Volume I: County Plan page 4-9 contains the Natural Resources GOAL: To protect, enhance, and promote a healthy and thriving natural environment in which to live, work, and recreate

Objective: Preserve, enhance, and promote the quality of the lakes, rivers, and streams of Marinette County.

Policies: Support efforts and programs that assist property owners with the installation of BMP's to protect against animal waste runoff.

Continue to support the review, updating, and implementation of the Marinette County Animal Waste Ordinance. Support efforts that promote the use of sound agricultural and soil conservation methods that minimize erosion impacting surface waters. See Appendix XXX.

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. Check the **one** enforcement authority situation which **best** applies to the governmental unit applying for a TRM grant combined with the proposed project.

\circ	The applicant certifies that it has local authority to enforce all state agricultural performance standards and prohibitions at all
NO.	sites within the local jurisdiction where such state agricultural performance standards and prohibitions apply. Multiply the initial
	project score by a factor of 1.15.

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•	The applicant certifies that it has local regulations that give local authority to enforce most, but not all, of the state agricultural performance standards and prohibitions at all sites within the local jurisdiction where such state agricultural performance standards apply; and this project addresses an enforceable performance standard or prohibition. <i>Multiply the initial project score by a factor of 1.10.</i>
0	The applicant certifies that it has local regulations that give local authority to partially enforce some of the state agricultural performance standards and prohibitions at some, but not all, of the sites within the local jurisdiction; and, this project addresses an enforceable performance standard or prohibition on a site under local jurisdiction. Multiply the initial project score by a factor of 1.05.
0	Applicant has no local authority to enforce state agricultural performance standards and prohibitions within the local jurisdiction for this proposed project. No multiplier is earned.
C	opies of ordinances for which credit is taken in this section are: (choose at least one)
\boxtimes	Found at this website (provide most direct web page URL).
	http://www.marinettecounty.com/i_marinette/d/chapter_18.pdf
	Attached to this application.
	Already attached to another application for funding.
	Optional Additional Information
Caref projec	fully review the answers to all of the questions above. Is there additional information that will add to the understanding of this ct? If so, describe here.
	Applicant Certification
A Res	sponsible Government Official (authorized signatory) must sign and date the application form prior to submittal to the DNR.
The g	overnmental official with signatory authority must be the person authorized by the Governmental Responsibility Resolution. fy that, to the best of my knowledge, the information contained in this application and attachments is correct and true.
Signa	ature of Authorized Government Official Date Signed
Name	(Please Print) Title
Greg	ory G. Cleereman Marinette County Conservationist
X	The required, completed Governmental 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:
3	 One copy of the completed application form [DNR Form 8700-300 (R 1/15)] with original signature in blue ink, and all attachments.
	 Three additional copies of the completed, signed application form and all attachments. One electronic copy of the completed application form in PDFormat only plus all attachments and maps on CD.
All ap	plication materials must be postmarked by midnight April 15 of the same calendar year.

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Send to: Department of Natural Resources Runoff Management Section-WT/3 101 South Webster Street Madison, WI 53703

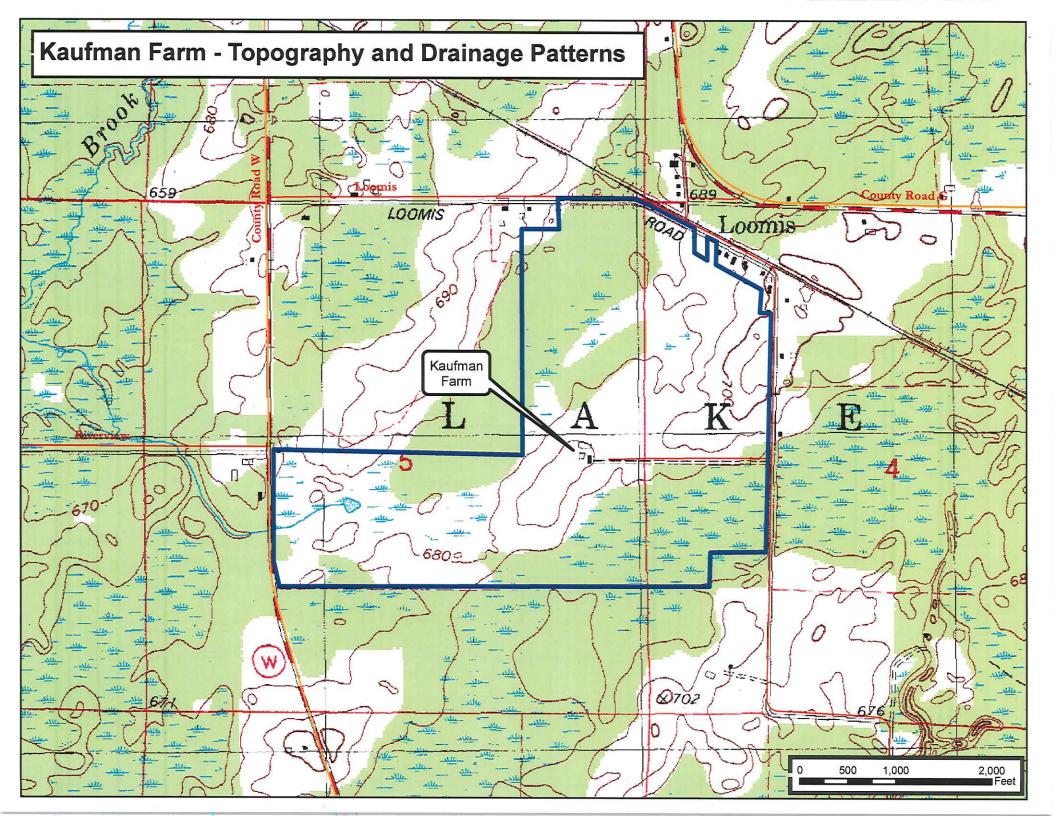
TRM Grant Project Name:

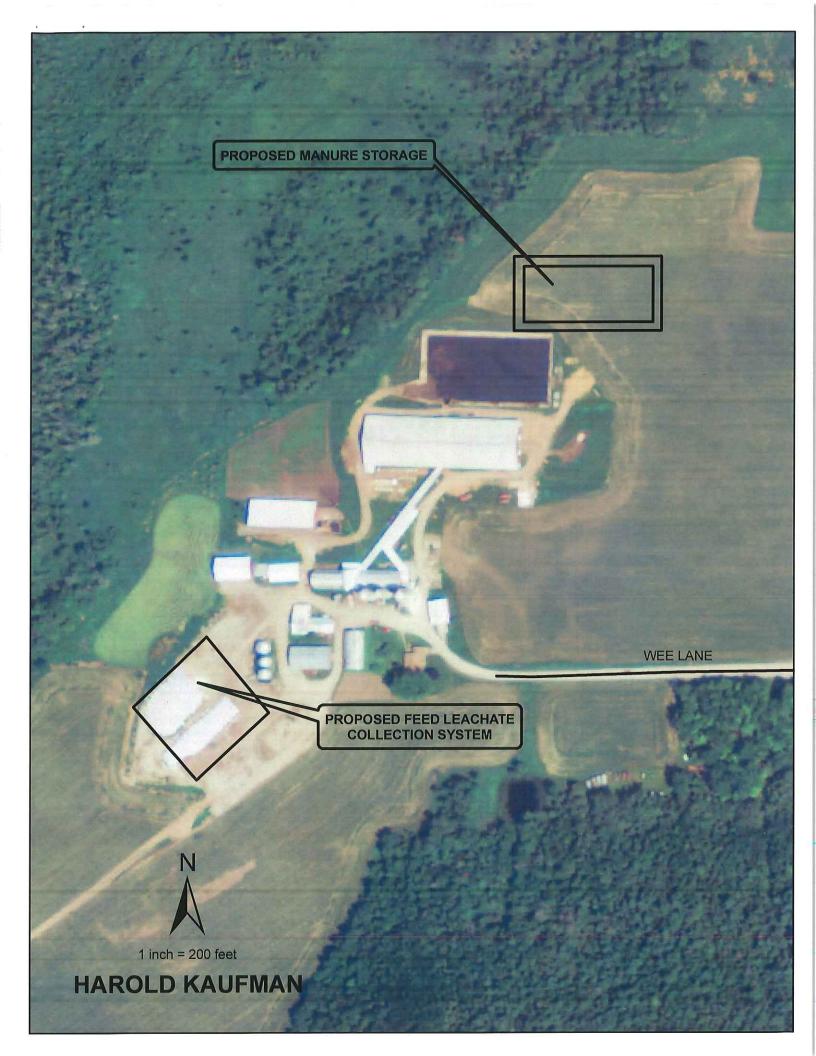
Kaufman Manure Management Project

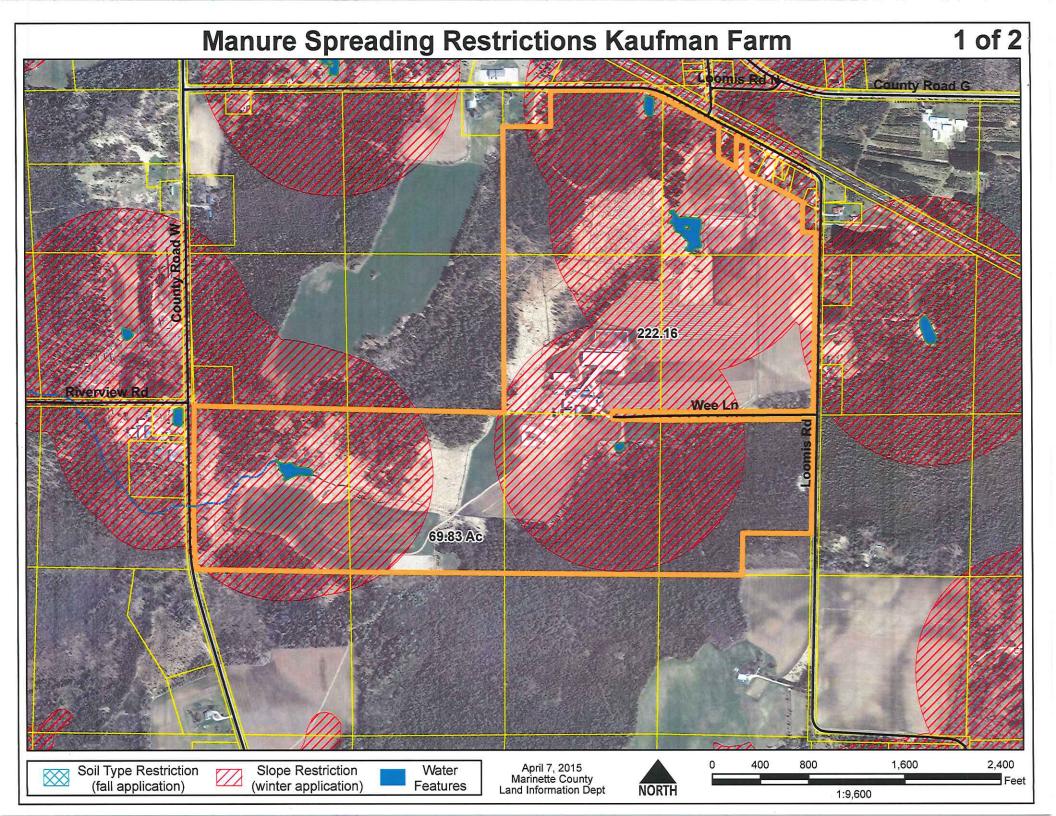
PO Box 7921

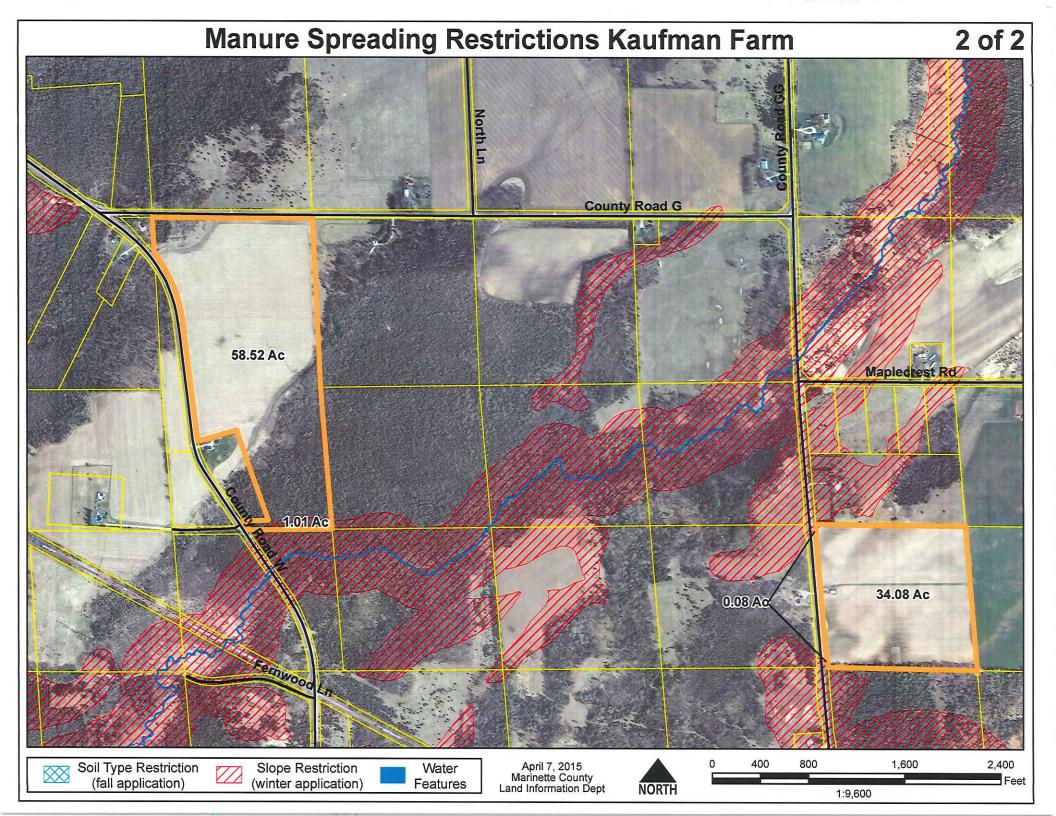
or

Madison WI 53707-7921









State of Wisconsin Department of Natural Resources PO Box 7185, Madison, WI 53707-7185 dnr.wi.gov

Animal Unit Calculation Worksheet Form 3400-025A (R 3/2012)

The Current Animal Unit Calculation Worksheet must be filled out separately for the "main" site and each site which are owned or operated by your farm for the purposes of housing animals associated with your operation. The site name, for which you are filling this worksheet out, must be provided below and correlate with Form 3400-025 Site Information (Section II).

1	Current / lame of Site: Kaufman Farm		nit Calcula	tio	n Numl	oers			
		I.	Mixed Animal U	nits		II. Non-mixed Animal Units			
	Animal Type	b. Equiv. factor	c. Current Number	d. No. of AUs		e. Equiv. factor	f. Current Number	g.	No. of Aus
Ex	rample - 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	50	=	10	Fed.numbers in this o	column comply with 40	CFR s	. 122.23
‡	Milking & Dry Cows	1.40 ×	300	=	420	1.43 x	300	=	429
/ Cattle	Heifers (800 lbs to 1200 lbs)	1.10 ×	210	Ξ	231				*
Dairy	Heifers (400 lbs to 800 lbs)	0.60 x		=		1,00 ×	210	=	210
Beef	Steers or Cows (400 lbs to market)	1.00 ×	100	=	100				
Be	Bulls (each)	1.40 ×		=		1.00 ×	100	=	100
	Veal Calves	0.50 x		=		1,00 ×		=	
	Pigs (up to 55 lbs)	0.10 ×		=		0,10 ×		=	
Swine	Pigs (55 lbs to market)	0.40 ×		=					
S	Sows (each)	0.40 ×		=					
	Boars (each)	0.50 ×		=		0.40 ×		=	
S	Layers (each) -non-liquid manure system	0.01 x		=	4)	0,0123 x		=	
Chickens	Broilers/Pullets (each) -non-liquid manure system	0.005 x		=		0,008 x		=	
O	Per Bird -liquid manure system	0.033 ×		=		0,0333 x		=	
cks	Ducks (each) -liquid manure system	0.2 x		Ξ		0.2 x		=	
2	Ducks (each) -non-liquid manure system	0.01 ×		=		0.0333 x		Ξ	
	Turkeys (each)	0.018 ×		=		0,018 x		=	
	Sheep (each)	0.1 ×		=		0.1 x		=	
	Horses (each)	2 x		=		2 x		=	
To	tal Animal Units:	Total Mixed Animal Units = 761 (add all rows above)			Total Non-Mixed Animal Units = 429 (Enter the single highest number from any row above; DO NOT add the totals)				

Check here if there are no proposed increases in animal numbers at this site within the next five years.

State of Wisconsin Department of Natural Resources PO Box 7185, Madison, WI 53707-7185

Animal Unit Calculation Worksheet Form 3400-025A (R 3/2012)

dnr.wi.gov

The Projected Animal Unit Calculation Worksheet must be filled out separately for the "main" site and each site which are owned or operated by your farm for the purposes of housing animals associated with your operation. The site name, for which you are filling this worksheet out, must be provided below and correlate with Form 3400-025 Site Information (Section II).

Projected Animal Unit Calculation Numbers

Name of Site: Kaufman Farm

Animal Time		I. Mixed Animal Units				II. Non-mixed Animal Units			
	Animal Type	b. Equiv. factor	c. Projected Number	d. No. of AUs		e. Equiv. factor	f. Projected 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	50	=	10	Fed.numbers in this d	column comply with 40	CFR s.	122.23
<u>o</u>	Milking & Dry Cows	1.40 x	300	=	420	1.43 x	300	=	429
Catt	Heifers (800 lbs to 1200 lbs)	1.10 ×	210	=	231	n.			
Dairy Cattle	Heifers (400 lbs to 800 lbs)	0.60 x		=		1.00 x	210	Ξ	210
Beef	Steers or Cows (400 lbs to market)	1.00 ×	100	=	100				
Be	Bulls (each)	1.40 ×		ш		1.00 x	100	=	100
	Veal Calves	0.50 x		=		1.00 x		n	
	Pigs (up to 55 lbs)	0.10 x		=		0.10 x		=	
je.	Pigs (55 lbs to market)	0.40 x		=					
Swine	Sows (each)	0.40 x		=					
	Boars (each)	0.50 x		8		0.40 x		=	
Ø	Layers (each) -non-liquid manure system	0.01 x		=		0.0123 x		=	
Chickens	Broilers/Pullets (each) -non-liquid manure system	0.005 x		=		0.008 x		=	
O	Per Bird -liquid manure system	0.033 x		=		0.0333 x		=	
sk Ks	Ducks (each) -liquid manure system	0.2 x		=		0.2 x		=	
Ducks	Ducks (each) -non-liquid manure system	0.01 ×		=		0.0333 x		=	
	Turkeys (each)	0.018 x		=		0.018 ×		æ	
	Sheep (each)	0.1 ×		=		0.1 x		=	
	Horses (each)	2 x		=		2 x		=	
Total Animal Units:			al Mixed Animal Ur (add all rows abov		761		on-Mixed Animal Uni highest number f O NOT add the tot	rom	129

WASTE STORAGE FACILITY DESIGN - 313 STANDARD

DONIBAL	Kaufman, F	laioid			Marinette			DATE:	4/14/15
DSN BY:	Existing	Storage		CHK BY:	-			DATE:	
	L TYPE>	1				NINE(finishir	ng), 5=SWIN	E(farrowing),	
For Dairy:	Rolling	Herd Average		S=POULTRY, lbs/cow/yr	0=OTHER)	le it a eta	nchion bam?	n	(Y or N)
	AND WASTE	WATER	22,000	ibs/com/yi		10 11 4 514	nonon bann		J(1 01 14)
LIVEST		AVG. WT.		PUT, CU FT		DAYS OF	VOLUME	ANIMAL	
KIND	NUMBER 300	PER HEAD	MANURE 2.36	BEDDING 0.4	TOTAL 828.6	STORAGE 210	REQUIRED 174,006	UNITS 420	
Heifers	210	800	1,28	0.4	352.8	210	74,088		
Calves	50	350	0.56	0.4	48.0	210	10,080		
									100
	WAS	TEWATER:	2533	GAL/DAY	338,6	CU FT/DAY		606	TOT. A.U.
			TOTAL DAIL	Y VOLUME:	1568,0	CU FT / DA	Y		
					Total M	anure and V	Vactowator	2,463,042 329,284	GALLONS
			Expe	ected % solid				8.9	8
					•				
RUNOFF V	MONTHLY	RUNOFF							
	RCN		14.8	IN. X		Ft2 Drainage	e Area=	0	CUFT
			12			(Do not inclu	ide storage a	rea)	
25.Vear 2/	4-HOUR RU	NOFE							
20-1001, 2-	RCN		3,53	IN. X	0	Ft2 Drainage			CUFT
			12			(Do not inclu	ide storage a		
		Total f	or Manure, N	Aliking Cent	er Runoff Vo	olume and 2	5 Vr Runoff	2,463,042 329,284	GALLONS
		Total	or manare, r	miking cont	i, italion ve	numo, ana z	o ii italion	020,204	0011
PRECIPITA	ATION	D	oes the facilit					(1 for yes, 2 fo	
Precinite	ition minus e	vaporation		Beginning Mo	nun for Precip	b. Collection	11	(1=Jan, 2=Fe	b, etc.)
rroopita		verage Precipi	tation on Stor	rage Surface		13,5	INCH	1.1	FT
	Ave	erage Evapora		The state of the s	-		INCH -	0.6	20,00
		Net Precipi	tation on Stor	age Surface		6.4	INCH	0.5	FT
		25-Yr, 24-Hr F	Precip on Stor	ane Surface		41	INCH	0,3	FT
		20-11, 24-1111	recip on oto	age ourrace			IIVOIT	0.0	
REMAININ	G WASTE	(If	no sump, use	e these minin	iums: ponds -	-2', tanks-1')	1.0	FT	
EVTDA DE	PTH FOR S	AEETV			/1.4	ft. Minimum)	1.0	ET	
EXINADE	FILLOKS	ALCII			(1-1	i. wiii iii iidiii)	1.0		
SETTLEME	ENT			(5%	of Embankn	nent Height\		FT	
				40.30		nont ricigity			
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Coccamina & St.

COST ESTIMATE

FOR: Harold Kaufman

BY: pk

DATE:

4/6/2015

PROJECT: Feed Leachate Collection

COMMENTS: trm estimate

POCUM	ROTATION
run	B. 2.

4		"	20.7742.02		8
ITEM	QUANT.	UNITS	U.COST	COST	C/S%
Strip top soil	89	cu.yds.	\$3.00	\$267	70
Excavation	237	cu.yds.	\$4.00	\$948	70
Clear stone	20	cu.yds.	\$20.00	\$400	70
Trenching	1000	lin.ft.	\$5.00	\$5,000	70
Clean sand	578	cu.yds.	\$5.00	\$2,890	70
Crushed Limestone	174	cu.yds.	\$18.00	\$3,132	70
Shape & finish site	1	job	\$1,000.00	\$1,000	70
8' high wall	60	lin.ft.	\$90.00	\$5,400	70
8" thick slab	200	sq.ft.	\$6.00	\$1,200	70
9.5" thick lid	264	sq.ft.	\$11.00	\$2,904	70
6" thick apron	1200	sq.ft.	\$3.75	\$4,500	70
2" polystyrene ins.	8	sheets	\$45.00	\$360	70
Pump	1/	each	 	\$12,000	70
Wiring	1	job	\$5,000.00	\$5,000	70
6" PVC pipe	1000	lin.ft.	\$15.00	\$15,000	70
PVC cleanouts	4	each	\$750.00	\$3,000	70
PVC elbows	4	each	\$50.00	\$200	70
				¥5	1
		F 7 F 7 F 8			

TOTAL COST: \$63,201 MAX. C/S: \$44,241 **OWNER COST:** \$18,960

C/S %: 70

COST ESTIMATE

FOR: Harold Kaufman

BY: pk

DATE:

4/6/2015

PROJECT: Manure Storage

COMMENTS: trm estimate

ITEM	QUANT.	UNITS	U.COST	COST	C/S%
Strip top soil Excavation Fill Crushed Limestone Breaker run Saw cut/remove conc Shape & Finish Site 6" thick concrete 5" thick concrete 2' wall Fence 10' gate Galvanized gate post Seeding	3241 5856 3159 108 108 1 1 25960 13464 90 700 12 12 2	cu.yds. cu.yds. cu.yds. cu.yds. job job sq.ft. sq.ft. lin.ft. each each acre	\$3.00 \$4.00 \$5.00 \$18.00 \$300.00 \$2,500.00 \$3.75 \$3.25 \$25.00 \$10.00 \$250.00 \$100.00 \$500.00	\$9,723 \$23,424 \$15,795 \$1,944 \$1,944 \$300 \$2,500 \$97,350 \$43,758 \$2,250 \$7,000 \$3,000 \$1,200 \$1,000	70 70 70 70 70 70 70 70 70 70 70 70

TOTAL COST: \$211,188

MAX. C/S: \$147,832

OWNER COST:

\$63,356

C/S %:

70

To whom it may concern,

I have met with Marinette County Land & Water Conservation Division (LWCD) staff regarding the proposed Targeted Runoff Management grant application. My responsibilities under the program, as well as the roles and responsibilities of the LWCD and WDNR, have been explained to me.

I commit, to the best of my ability, to installing and properly implementing the best management practices described in the grant application. In addition, I have the financial resources to pay my share of the project costs.

Sincerely, Harold & Haufman

Harold Kaufman



March 25, 2015

To: TRM Grant Review Team

Subject: Harold Kaufman - Marinette County LWCD TRM Grant Application

The TRM Grant Program has been extremely beneficial to the water quality goals and initiatives of Marinette County residents. The Marinette County LWCD and the USDA-NRCS office use the TRM Grant Program and the Environmental Quality Incentives Program (EQIP) to help agricultural producers manage animal wastes. Mr. Kaufman has a need and has shown interest in addressing his manure management resource concern. Collecting and spreading manure according to an approved 590 plan will greatly improve water resource in Marinette County.

Producers who receive funding through the TRM Grant Program are then offered to participate in EQIP funding for nutrient management planning. This helps educate the farmers on how their manure storage can be used as an asset in the nutrient budgeting. This partnership between TRM and EQIP also helps farmers get manure spreading restriction maps developed so they know where the environmentally sensitive areas are located.

We at NRCS are grateful for the Marinette County Land and Water Conservation Department. They are doing an excellent job of helping farmers deal with the waste management issues that plague Wisconsin. Paul Klose from LWCD (along with NRCS) currently work on waste management systems together. A team effort is being developed to help out agricultural producers in Marinette County better manage a valuable asset while protecting the waters of the state.

The applications are customers who need assistance in their conservation efforts. Marinette County LWCD and USDA NRCS are working with these farmers to help them reach their goals.

Thank you,

Jeff Maroszek

Oconto-Marinette NRCS District Conservationist



Marinette County UW Extension 1926 Hall Avenue Marinette WI 54143-1717 715-732-7510 • Toll-free 877-884-4408 Fax: 715-732-7513 Website: http://marinette.uwex.edu/

April 13, 2015

To: Whom it may concern

Re: Marinette County LWCD TRM Grant Applications

This letter is to directly support the work of the Marinette County Land & Water Conservation Department related to their application for Targeted Runoff Management funds. These funds are necessary to allow the affected Marinette County farms to eliminate nutrient loading into the surface and ground waters of Marinette County. Due to the inherent nature of Marinette County soils and surface water presence, the completion of all five of these projects will definitely have a positive environmental effect through reduction of phosphorus runoff and/or nitrate leaching.

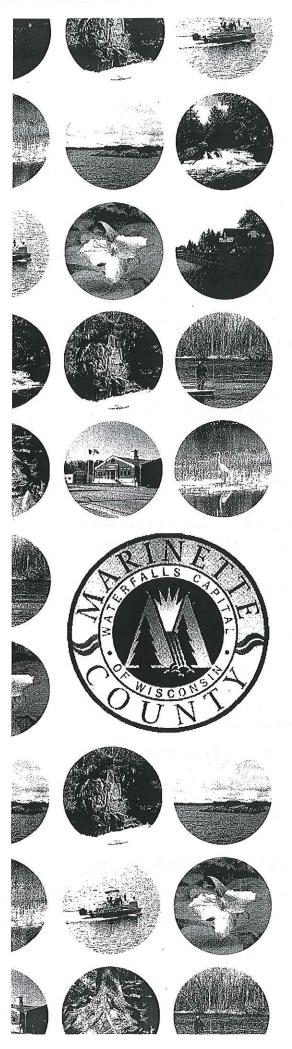
Due to the substantial benefits to the environment of these projects, UW-Extension pledges our support to assist the producers in understanding how and why to most effectively utilize the nutrients in the captured manure/runoff. We will invite all the producers to take part in the multi-day Nutrient Management Farmer Education Training. Past training participants from Marinette County have consistently reported that they understand nutrient management much better because of these training sessions, as well as actually implementing their nutrient management plans more completely.

I will also be available to work with producers individually as they change their management practices to account for new systems they are putting into place. In some cases, these changes necessitate cropping rotation switches, soil tillage changes, and other similar practice changes.

Sincerely,

Scott A. Reuss

Marinette County UW-Extension Agriculture Agent



Marinette County 20-Year Comprehensive Plan Volume I: County Plan December 2009

NATURAL RESOURCES



<u>Goal</u>: To protect, enhance, and promote a healthy and thriving natural environment in which to live, work, and recreate.

Objective: Promote preservation and enhancement of the county's environmentally sensitive areas; such as wetlands, floodplains, shorelands, river/creeks, open spaces, woodlands, steep slopes, and floodplains.

Policies:

- Promote cooperative efforts with local communities as well as state and federal agencies to enhance understanding of natural resource location, type, and importance.
- Maintain a current environmental corridor map as well as other resource maps as reference tools in implementing the county's Future Land Use.
- Promote access to natural resources.
- Direct growth away from environmentally sensitive areas in order to protect the benefits and functions they provide while limiting the need for future public and/or private dollars spent on flood control, stormwater management, habitat restoration, erosion control, and water quality improvements.
- Maintain familiarity with local, county, state, and federal regulations that regulate the county's natural resources.
- Work cooperatively with WDNR, US Army Corps of Engineers, and USDA to ensure continued and consistent protection and enhancement of environmentally sensitive areas.
- Continue to review, update, and implement the recommendations of the Marinette County Land and Water Resource Management Plan.

Objective: Preserve, enhance, and promote the quality of the lakes, rivers and streams of Marinette County.

Policies:

- Work cooperatively with local communities, local associations, state and federal agencies to ensure protection and improvement of surface water resources.
- Support educational efforts that promote sustainable land use practices within the watersheds.
- Work cooperatively with local communities as well as state and federal agencies to address known and potential contamination problems and to pursue additional protection and remediation measures.
- Support and promote the development of plans and land use regulations that promote surface water quality.
- Support cooperative efforts with state agencies to properly inspect, maintain, repair, and plan for the future of Marinette County owned and operated dams.

 Work with UW-Extension to provide information and education regarding Best Management Practices (BMPs) and other measures local communities and property owners can implement to improve water quality.

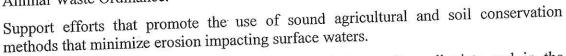


Support efforts and programs that assist property owners with the installation of BMPs to protect against animal waste runoff.

 Support efforts and programs that require periodic evaluations and maintenance for all POWTS systems.



Continue to support the review, updating, and implementation the Marinette County Animal Waste Ordinance.



- Support communities in the maintenance of existing sanitary districts and in the establishment of sanitary districts in more densely developing areas.
- Cooperatively work with federal, state, county agencies and other non-governmental organizations for control of non-native invasive species.

Objective: Preserve, enhance, and promote the quantity and improve the quality of Marinette County groundwater resources.

Policies:

- Support studies that monitor the number of wells being constructed, closed, and measure the level of general water quality within Marinette County.
- Promote and support the development of wellhead protection plans and ordinances that prohibit uses with the potential to contaminate municipal wells.
- Work cooperatively with local communities as well as state and federal agencies to address known, existing, and potential contamination problems and to pursue additional protection and remediation measures.
- Support efforts to identify what and where certain agricultural practices are occurring in the county (i.e. pesticide application, manure spreading, etc.)
- Support cooperative efforts to provide educational opportunities and incentives for groundwater friendly types of agriculture.
- Promote and support the development of land use regulations that promote groundwater quality.
- Promote and support identification existing and maintenance of all Private Onsite Wastewater Treatment System (POWTS) within the county.
- Work with UW-Extension to provide information and education regarding Best Management Practices, water testing, and other measures local communities and property owners can implement to improve water quality.
- Support cooperative efforts to identify and close abandoned wells.

RESOLUTION No. 433-15

SUPPORTING TARGETED RUNOFF MANAGEMENT GRANTS

WHEREAS, Marinette County is interested in acquiring multiple grants from the Wisconsin Department of Natural Resources (WDNR) for the purposes of implementing measures to control agricultural pollution sources as described in the applications and pursuant to §281.65 or 281.66, Wis. Stats., and Administrative Code NR151, 153, and 155; and,

WHEREAS, the projects are located in Marinette County at:

Dunbar T37N R19E Section 27
Grover T30N R21E Section 25
Lake T31N R21E Section 5
Middle Inlet T33N R21E Section 30
Pound T30N R20E Section 1
Pound T30N R21E Section 33
Stephenson T32N R19E Section 28
Parcel I

Parcel Number 010-01950.000
Parcel Number 014-00528.000
Parcel Number 016.00147.000
Parcel Number 018-00710.000
Parcel Number 028-00015.003
Parcel Number 028-00793.000
Parcel Number 032-01682.001

WHEREAS, each grant application is in the amount of \$150,000.00; for each project Marinette County receives five percent (5%) to a maximum of \$5,000.00 for technical services and charges a \$500.00 permit fee.

NOW, THEREFORE, BE IT RESOLVED the Marinette County Board of Supervisors authorizes the County Conservationist to apply for, accept if awarded and administer the above referenced grants; and

BE IT FURTHER RESOLVED in the event it becomes necessary to change projects, the County Conservationist is authorized to find new program participants meeting Wisconsin Department of Natural Resources guidelines for substitution. The Marinette County Land Information Committee shall approve the new project prior to submittal; and

BE IT FURTHER RESOLVED Marinette County hereby authorizes the County Conservationist or designee to sign and submit *Environmental Hazard Assessment* forms.

BE IT FURTHER RESOLVED Marinette County will comply with all state and federal laws, regulations and permit requirements pertaining to the projects and to fulfillment of the grant document provisions.

Adopted this 31st day of March 2015 by a majority vote of a quorum of the Marinette County Board.

Vilas Schroeder, Chairperson Kathy Brandt, Cl

Submitted by: Marinette County Land Information Committee - 3/9/2015