

**Final Report**

**Agricultural Targeted Runoff Management & Notice of Discharge Grant Programs**

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

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

<b>Grant Type</b>							
Select Grant Type Small Scale Total Maximum Daily Load (TMDL)							
<b>Project Name &amp; Location</b>							
Project Name Steffens Family Farm							
Grant Number Tmd-Tmd45000Y16				Governmental Unit Name Outagamie County			
County Outagamie		Watershed Name Lower Fox - LF10			12-Digit HUC 040302040102		
Project Contact Name Elly Magdanz			Phone Number (920) 832-6057		E-mail Address elly.magdanz@outagamie.org		
<input type="checkbox"/> For a project with multiple site locations, an aerial photo map is attached with each site location labeled.							

<b>Site Location - 1</b>							
Name of Cost-Share Recipient Lorraine M. Steffens					Animal Units 249	Nearest Receiving Waterbody Unnamed Trib to Duck Creek	
Township 22	Range 17	E / W E	Section 36	Quarter NW	Quarter/Quarter NE	Latitude 44.4271	Longitude -88.3827
<b>Compliance Requirements - 1</b>							
Chs. NR 151 or 243 Wis. Adm. Code Notice Type NR 151		Notice letter attached <input checked="" type="checkbox"/>	Compliance achieved? If no, explain in site information <input checked="" type="radio"/> Yes <input type="radio"/> No			Compliance determination letter attached <input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Attached is a copy of the written statement the County provided to the landowner and cost-share recipient of the landowner's obligation to maintain compliance with performance standards & prohibitions on cropland and livestock facilities addressed by the cost-share agreement. Compliance at these sites must be maintained in perpetuity regardless of future cost sharing. The County has also placed a copy of this written statement in the County files.							

<b>Summary of Results - 1</b>							
Best Management Practice Installed	Quantity	Unit of Measure	Performance Standard/Prohibition Addressed	Total Installation Cost	Load Reduction		
Manure Storage Systems	1	No.	Code(s) 4,9,11,12	\$207,433.00	Phosphorus lbs/yr 224.8	Nitrogen lbs/yr 677.3	Sediment Tons/yr 0
Waste Transfer Systems	1	No.	Code(s) 4	\$86,491.00			
Nutrient Management	211.7	Acres	Code(s) 9				

<b>Site Location Attachment - 1</b>	
Check the box if the required information for the site is attached:	
<input checked="" type="checkbox"/> Photos of pre-and post-implementation of BMP(s)	<input checked="" type="checkbox"/> Load reduction modeling documents
<input checked="" type="checkbox"/> Aerial photo map of site with BMPs labeled	<input type="checkbox"/> Water quality monitoring results/summary, if applicable

<b>Site Information - 1</b>
Narrative space will expand to fit

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Notice of Discharge Grant Programs

Form 3400-189A (R 05/16)

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

### Additional Project Information and/or Comments

*Narrative space will expand to fit*

In order to determine Nitrogen and Phosphorus reductions, a 28% phosphorus reduction and 19% nitrogen reduction were assumed from implementation of waste storage facility allowing for a 590 nutrient management plan to be followed on owned and rented cropland (211.7 acres).

### Grantee Certification

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

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

Name of Authorized Government Official	Title of Authorized Government Official	Date
Gregory J Baneck	County Conservationist	09/06/2016

### For DNR Use Only

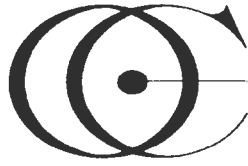
Received complete reports with all attachments       Practices implemented were consistent with the grant agreement

Comments about this project:

Township should be 23N.

Name of Region Nonpoint Source Coordinator	Date
Erin Hanson	10/03/16

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



OUTAGAMIE COUNTY  
LAND CONSERVATION DEPARTMENT

3365 W. BREWSTER ST. APPLETON, WISCONSIN 54914-1602  
PHONE (920) 832-5073 FAX (920) 832-4783

September 13, 2016

AG ID #: 14747  
LORRAINE M STEFFENS  
N5220 MULLEN RD  
SEYMOUR, WI 54165

Dear Mrs. LORRAINE M STEFFENS:

On 9/13/2016, Elly Magdanz from the Outagamie County Land Conservation Department performed an inventory of livestock facilities on property that you own or operate described as,  
**010078200**

**NW NE LESS SOLD TWN SEC36 T23N R17E 39.92AC M/L DR DIST 39.23AC ,**

The purpose of this inventory was to determine compliance with Agricultural Performance Standards and Prohibitions. Compliance with these standards is a requirement for agricultural land and activities in Outagamie County per Outagamie County Chapter 4, Agricultural Performance Standards and Animal Waste Storage Ordinance.

It has been determined that all livestock waste practices and facilities on your farm are currently in compliance with Agricultural Performance standards and Prohibitions currently in effect. Therefore, no further action is required by you at this time.

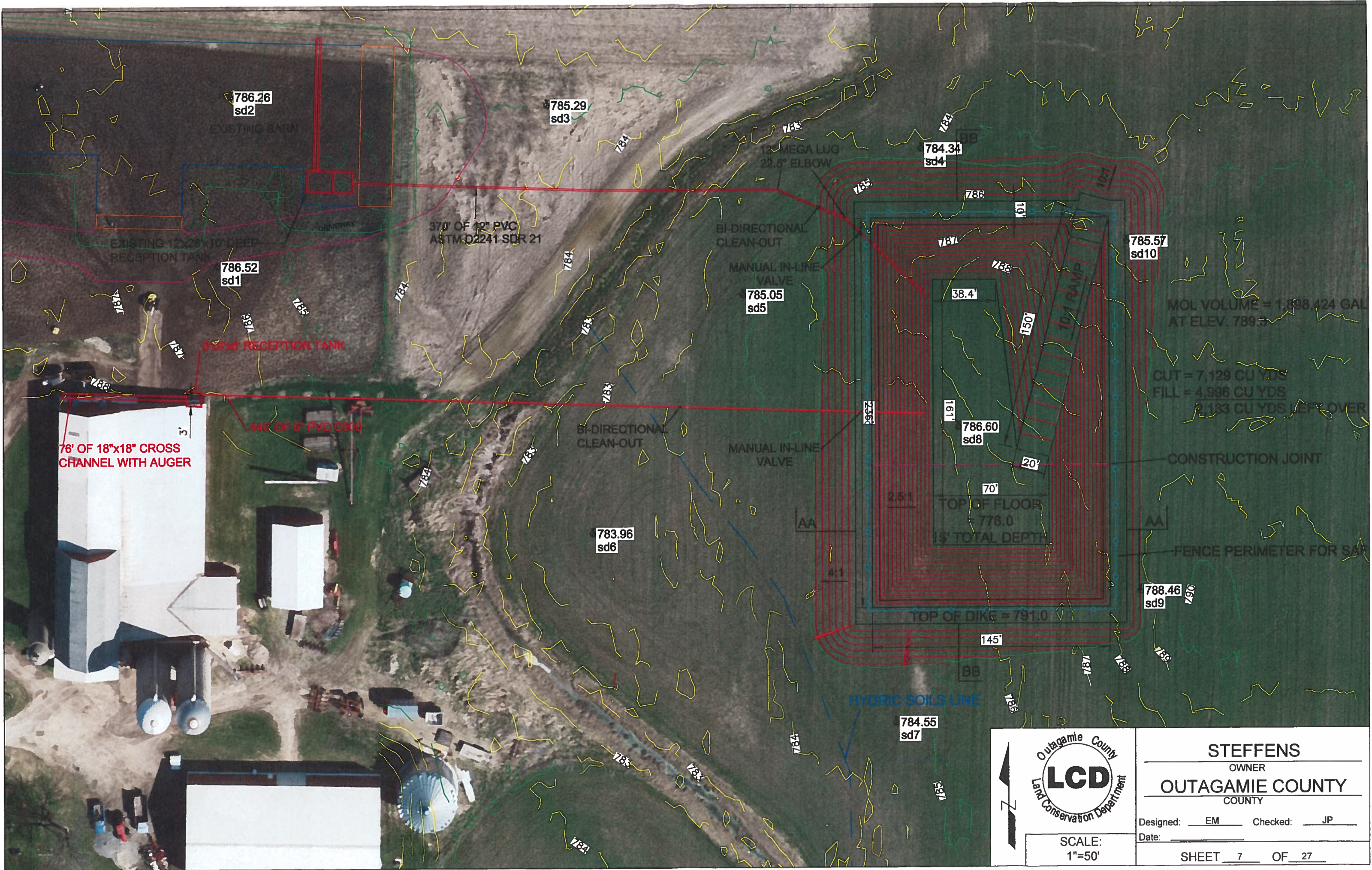
Outagamie County Chapter 4, Agricultural Performance Standards and Animal Waste Storage Ordinance as well as Chapter NR 151, Wisconsin Administrative Code requires that you maintain this level of compliance regardless of future cost sharing. This will require your continued operation and maintenance of all livestock facilities in accordance with accepted standards of practice. This compliance assessment and determination does not cover performance standards and prohibitions that become effective at a future date, nor does it cover requirements for cropped lands, which will be inventoried at a future date. Also, any new practices or facilities initiated or constructed on your farm in the future must comply with all effective performance standards at the time you initiate the change on your farm, regardless of cost sharing.

Thank you for your continued conservation efforts. They have contributed significantly to improved water quality within Outagamie County. If you have any further questions or concerns, please contact me at (920) 832-5073.

Sincerely,

Gregory J. Baneck  
County Conservationist





MOL VOLUME = 1,898,424 GAL  
 AT ELEV. 789.5  
 CUT = 7,129 CU YDS  
 FILL = 4,996 CU YDS  
 2,133 CU YDS LEFT OVER

CONSTRUCTION JOINT  
 FENCE PERIMETER FOR SAFETY

 	<b>STEFFENS</b> OWNER
	<b>OUTAGAMIE COUNTY</b> COUNTY
	Designed: <u>EM</u> Checked: <u>JP</u> Date: _____
SCALE: 1"=50'	SHEET <u>7</u> OF <u>27</u>



# STEFFENS FAMILY FARM





# STEFFENS FAMILY FARM





# STEFFENS - WASTE STORAGE





# STEFFENS - WASTE TRANSFER





**Total Load** This is the summary of annual nutrient and sediment load for each subwa

**a. Nutrient load from runoff (lb/year) without BMPs**

Watershed	Cropland			Pastureland		
	N	P	BOD	N	P	BOD
W1	3565.0	802.7	5807.8	0.0	0.0	0.0
Total	3565.0	802.7	5807.8	0.0	0.0	0.0

**b. Nutrient load reduction in runoff with BMPs (lb/year)**

Watershed	Cropland			Pastureland		
	N	P	BOD	N	P	BOD
W1	677.3	224.8	0.0	0.0	0.0	0.0
Total	677.3	224.8	0.0	0.0	0.0	0.0

**1. Total load by subwatershed(s)**

Watershed	N Load (no BMP)	P Load (no BMP)	BOD Load (no BMP)	Sediment Load (no BMP)	N Reduction	P Reduction
	lb/year	lb/year	lb/year	t/year	lb/year	lb/year
W1	3984.9	964.4	6647.6	131.2	677.3	224.8
Total	3984.9	964.4	6647.6	131.2	677.3	224.8

**2. Total load by land uses (with BMP)**

Sources	N Load (lb/yr)	P Load (lb/yr)	BOD Load (lb/yr)	Sediment Load (t/yr)
Urban	0.00	0.00	0.00	0.00
Cropland	3307.51	739.61	6647.60	131.22
Pastureland	0.00	0.00	0.00	0.00
Forest	0.00	0.00	0.00	0.00
Feedlots	0.00	0.00	0.00	0.00
User Defined	0.00	0.00	0.00	0.00
Septic	0.00	0.00	0.00	0.00
Gully	0.00	0.00	0.00	0.00
Streambank	0.00	0.00	0.00	0.00
Groundwater	0.00	0.00	0.00	0.00
Total	3307.51	739.61	6647.60	131.22



**STEPL Input Sheet:** Values in RED are required input. Change worksheets by clicking on tab

This sheet is composed of eight input tables. The first four tables require users to change initial values

**Step 1:** Select the state and county where your watersheds are located. Select a nearby weather station

**Step 2:** (a) Enter land use areas in acres in Table 1; (b) enter total number of agricultural animals by type (c) enter values for septic system parameters in Table 3; and (d) if desired, modify USLE parameters

**Step 3:** You may stop here and proceed to the BMPs sheet. If you have more detailed information on

**Step 4:** (a) Specify the representative Soil Hydrologic Group (SHG) and soil nutrient concentrations in (c) modify the nutrient concentrations (mg/L) in runoff in Table 7; and (d) specify the detailed

**Step 5:** Select BMPs in BMPs sheet. **Step 6:** View the estimates of loads and load reduction

Treat all the subwatersheds as parts

State: Wisconsin County: Outagamie Weather Station: WI GREEN BAY WSO

**1. Input watershed land use area (ac) and precipitation (in)**

Watershed	Urban	Cropland	Pastureland	Forest	User Defined	Feedlots
W1	0	212	0	0	0	0

**2. Input agricultural animals**

Watershed	Beef Cattle	Dairy Cattle	Swine (Hog)	Sheep	Horse	Chicken
W1	0	249	0	0	0	0
Total	0	249	0	0	0	0

**3. Input septic system and illegal direct wastewater discharge data**

Watershed	No. of Septic Systems	Population per Septic System	Septic Failure Rate, %	Wastewater Direct Discharge, # of People	Direct Discharge Reduction, %
W1	0	2.43	2	0	0

**4. Modify the Universal Soil Loss Equation (USLE) parameters**

Watershed	Cropland					Pastureland
	R	K	LS	C	P	R
W1	100.000	0.301	0.288	0.200	1.000	100.000

**Optional Data Input:**

**5. Select average soil hydrologic group (SHG), SHG A = highest infiltration and SHG D = lowest**

Watershed	SHG A	SHG B	SHG C	SHG D	SHG Selected	Soil N conc. %
W1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	C	0.080



**6. Reference runoff curve number (may be modified)**

SHG	A	B	C	D
Urban	83	89	92	93
Cropland	67	78	85	89
Pastureland	49	69	79	84
Forest	39	60	73	79
User Defined	50	70	80	85

**6a. Detailed u**

Urban\SHG
Commercial
Industrial
Institutional
Transportation
Multi-Family
Single-Family
Urban-Cultiva
Vacant-Devel
Open Space

**7. Nutrient concentration in runoff (mg/l)**

Land use	N	P	BOD
1. L-Cropland	1.9	0.3	4
1a. w/ manure	8.1	2	12.3
2. M-Cropland	2.9	0.4	6.1
2a. w/ manure	12.2	3	18.5
3. H-Cropland	4.4	0.5	9.2
3a. w/ manure	18.3	4	24.6
4. Pastureland	4	0.3	13
5. Forest	0.2	0.1	0.5
6. User Defin	0	0	0

**7a. Nutrient c**

Landuse
Urban
Cropland
Pastureland
Forest
Feedlot
User-Defined

**8. Input or modify urban land use distribution**

Watershed	Urban Area (ac.)	Commercial %	Industrial %	Institutional %	Transportation %	Multi-Family %
W1	0	15	10	10	10	10

**9. Input irrigation area (ac) and irrigation amount (in)**

Watershed	Total Cropland (ac)	Cropland: Acres Irrigated	Water Depth (in) per Irrigation - Before BMP	Water Depth (in) per Irrigation - After BMP	Irrigation Frequency (#/Year)
W1	212	0	0	0	0

Input Ends Here.