Wisconsin Department of Natural Resources
Bureau of Watershed Management (WT/3)
101 S. Webster St.
Madison, WI 53703
PO Box 7921
Madison, WI 53707-7921

Final Report Form 3400-189 (rev. 7/30/09)

- **Targeted Runoff Management Grant Program (ch. NR 153)**
- **Notice of Discharge Program (ch. NR 153)**
- **Urban Nonpoint Source & Storm Water Management Grant Program (ch. NR 155)**

NOTICE: This Final Report is authorized under ss. 281.65 and 281.66., Wis. Stats., and chs. NR 153 and NR 155, Wis. Admin. Code. Personally identified information collected will be used for program administration and may be made available to requesters as required under Wisconsin Open Records Law [ss. 19.31-19.39, Wis. Stats.].

INSTRUCTIONS: Your grant agreement requires you to submit a Final Report with your final reimbursement request. This Final Report form must be used in conjunction with the "FINAL REPORT INSTRUCTIONS." The instructions detail how to complete and submit the report to DNR as described in the instructions.

1. GRANT TYPE. Check the one that applies.

☒ Targeted Runoff Management Grant – Agricultural	☐ Targeted Runoff Management Grant – Urban
☐ Urban Nonpoint Source & Storm Water Management Grant – Construction	☐ Urban Nonpoint Source & Storm Water Management Grant – Planning
☐ Notice of Discharge Grant	

2. PROJECT NAME & LOCATION.

2.1. Project Name:	2.2. Grant Number:	
Dutchman Creek Phosphorus	**TMD-L/LF02/44000/12 C**	
2.3. Governmental Unit Name:	2.4. Primary Watershed Name:	2.5. Watershed Code:
Outagamie County	**Apple/Ashwaubenon Creeks**	**LF02**

NOTE FOR SECTION 2.6 (which follows):

Section 2.6. includes five (5) columns (A. through E.) for recording data about five (5) discrete site locations. If your grant has more than five (5) discrete project locations, attach additional columns for Section 2.6 as described in the instructions. If your project occurs in more than one 12-digit Hydrologic Unit Code (HUC), use the space in adjacent columns to record other HUC numbers.

2.6 Site Location(s) →	A.	B.	C.	D.	E.
Name of Cost-Share Recipient or Governmental Unit	Leon L and Ann R Sprangers				
Cost-Share Agreement Number (Agricultural only)	2015-Dutchman-06				
12-Digit Hydrologic Unit Code(s) (HUC) Where Work Was Completed	040302040404				
Nearest Surface Receiving Water Affected					
Name:	Dutchman Creek				
Waterbody Identification Code(s) (WBIC):	10824				
Nearest Impaired Water Affected					
Name:					
Waterbody Identification Code(s) (WBIC):					
Pollutants Reduced					
Impairments/Impacts Addressed					

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Project Location(s) (cont.) →	A.	B.	C.	D.	E.
Project Coordinates:					
Town	23				
Range	19				
Section	28				
Quarter	SW				
Quarter-Quarter	SW				
Latitude (degrees, minutes, seconds North of Equator; use the DNR's Surface Water Data Viewer (SWDV))	44deg. 25', 52"N 44.4306				
Longitude (degrees, minutes, seconds W of Prime Meridian, use the SWDV)	-88.2105 -88deg. 12', 35"W				

3. SUMMARY OF RESULTS.

Table A. Agricultural Projects. – Ch. NR 151 Performance Standards and Prohibitions and Other Water Resources Management Priorities

A.1. Management Measures	Units of Measure	Quantity	Measurement Method Used
Sheet, rill and wind erosion	Acres meeting "T"	acres	
Manure Storage Facilities: New Construction/Alterations	Number of facilities	facilities	
	Number of animal units	animal units	
Manure Storage Facilities: Closure	Number of facilities	facilities	
Manure Storage Facilities: Failing/Leaking Facilities	Number of facilities	facilities	
	Number of animal units	animal units	
Clean Water Diversions in WQMA	Pollutant load reduction	9 lbs.	
	Number of farms with diversions	1 farms	
	Number animal units	17.5 animal units	
Nutrient Management on Agricultural Land	Acres planned	acres	
Prohibition: Manure Storage Overflow	Number of farms	farms	
	Number of animal units	animal units	
Prohibition: Unconfined Manure Pile in WQMA	Number of farms	farms	
Prohibition: Direct Runoff From Feedlot/Stored Manure	Pollutant load reduction	lbs.	
	Number of facilities	facilities	
	Number of animal units	animal units	
Prohibition: Unlimited Livestock Access	Feet of bank protected	feet	
	Number of farms	farms	

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Table A. Agricultural Projects. (continued) A.2. Other Management Measures	Units of Measure	Quantity	Measurement Method Used
Streambank & Shoreline Protection	Units (use feet, acres or number as applicable)		
	Pollutant load reduction (if method available)		
Other:	Units (use feet, acres or number as applicable)		
	Pollutant load reduction (if method available)		
Other:	Units (use feet, acres or number as applicable)		
	Pollutant load reduction (if method available)		
Other:	Units (use feet, acres or number as applicable)		
	Pollutant load reduction (if method available)		

Table B. Urban Construction Projects Serving Developed Areas.			
B.1. Required Management Measures	Units of Measure	Quantity	Measurement Method Used
20-40% Total Suspended Solids (TSS) Reduction for NR 216 communities	TSS reduced	lbs.	
	TSS reduction	%	
B.2. Other Management Measures			
20-40% Reduction in TSS for non-NR 216 communities	TSS reduced	lbs.	
	TSS reduction	%	
Infiltration	Pre-development stay-on volume	%	
	Stay-on volume	ft^3/year	
Peak flow discharge for 2 year/24 hour design storm	Change in cubic feet per second for design year	ft^3/sec	
Protective areas	Bank protected	feet	
Fueling & maintenance areas	Oily sheen presence reduced	☐Yes ☐ No	
Streambank & Shoreline Protection	Bank erosion reduced	tons	
	Bank protected	feet	
Other:	Pollutant load reduction (if method available)		
	Units (use feet, acres or number as applicable)		

Table C. Urban Planning Projects.			
C.1. Governmental unit(s) involved (list by name):			
C.2. Estimate total acres covered by the	Existing Developed Urban Areas	New Development	Total Acres

planning product:	acres	acres	acres

C.3. Products developed (check all below that apply)	Identify Documents by Name (if applicable)
☐ Storm Water Plan	
☐ Construction or Erosion Ordinances	
☐ Post-construction Storm Water Ordinances	
☐ Other Types of Storm Water Quality Ordinances	
☐ Financing Methods: identified and evaluated	
☐ Financing Methods: developed or implemented	
☐ I & E Plan	
☐ I & E Implementation Activities	
☐ Other:	

C.4. Identify the Storm Water goals addressed (check all that apply)	
☐ Reduce TSS	**Comments:**
☐ Maintain infiltration	
☐ Control Peak Flow	
☐ Protective Areas	
☐ Control of Fueling & Maintenance Areas	
☐ Remove Illicit Discharges	
☐ Other:	

4. Satisfaction of Notice Requirements. If cost sharing for this project was offered under a formal notice pursuant to chs. NR 151 or 243, provide information for each notice in the table below.

Notice Information				Notice Satisfaction Information		
Chs. NR 151 or 243 Notice Type	Issue Date	From (Name)	To (Name)	Satisfied? Yes	Satisfied? No	Date Letter Sent
				☐	☐	
				☐	☐	
				☐	☐	
				☐	☐	

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5. Additional Information. (Space will expand to fit your text.)

6. Summary of Project Challenges. (Space will expand to fit your text.)

7. Grantee Certification.

Checking here ☒ certifies that, to the best of your knowledge, the information contained in this report is correct.

Name of Authorized Representative (type or print) ↓	Title of Authorized Representative (type or print) ↓
Gregory J Baneck	**County Conservationist**

Signature of Authorized Representative	Date
	January 25, 2016

8. For Departmental Use Only.

Regional NPS Coordinator – Please complete the following:

8.A. Check here ☐ if you have received the following from the project sponsor:
- one (1) printed, signed, original Final Report + attachments
- one (1) electronic version of Final Report.

Send the printed, signed original Final Report with attachments + electronic version to the Community Financial Assistance Grants Manager. Community Financial Assistance will forward to Runoff Management Section Grants Coordinator.

8.B. Comments about this project:

Lat: 44.4306
Long: -88.2105

8.C. Type or print Name of Regional NPS Coordinator →	
8.D. Signature of Regional NPS Coordinator	8.E. Date

OUTAGAMIE COUNTY
LAND CONSERVATION DEPARTMENT
3365 W. BREWSTER ST. APPLETON, WISCONSIN 54914-1602
PHONE (920) 832-5073 FAX (920) 832-4783

January 25, 2016

AG ID #: 15169
LEON L & ANN R SPRANGERS
W494 BAIN RD
DEPERE,WI 541150000

Dear Mr. & Mrs. LEON L & ANN R SPRANGERS:

On 1/25/2016, Quint Krueger from the Outagamie County Land Conservation Department performed an inventory of livestock facilities on property that you own or operate described as,

170162101

W30AC OF SW SW LESS S225FT OF W170FT SEC28 T23N R19E 29.12AC M/L DR DIST 28.84AC ,

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.

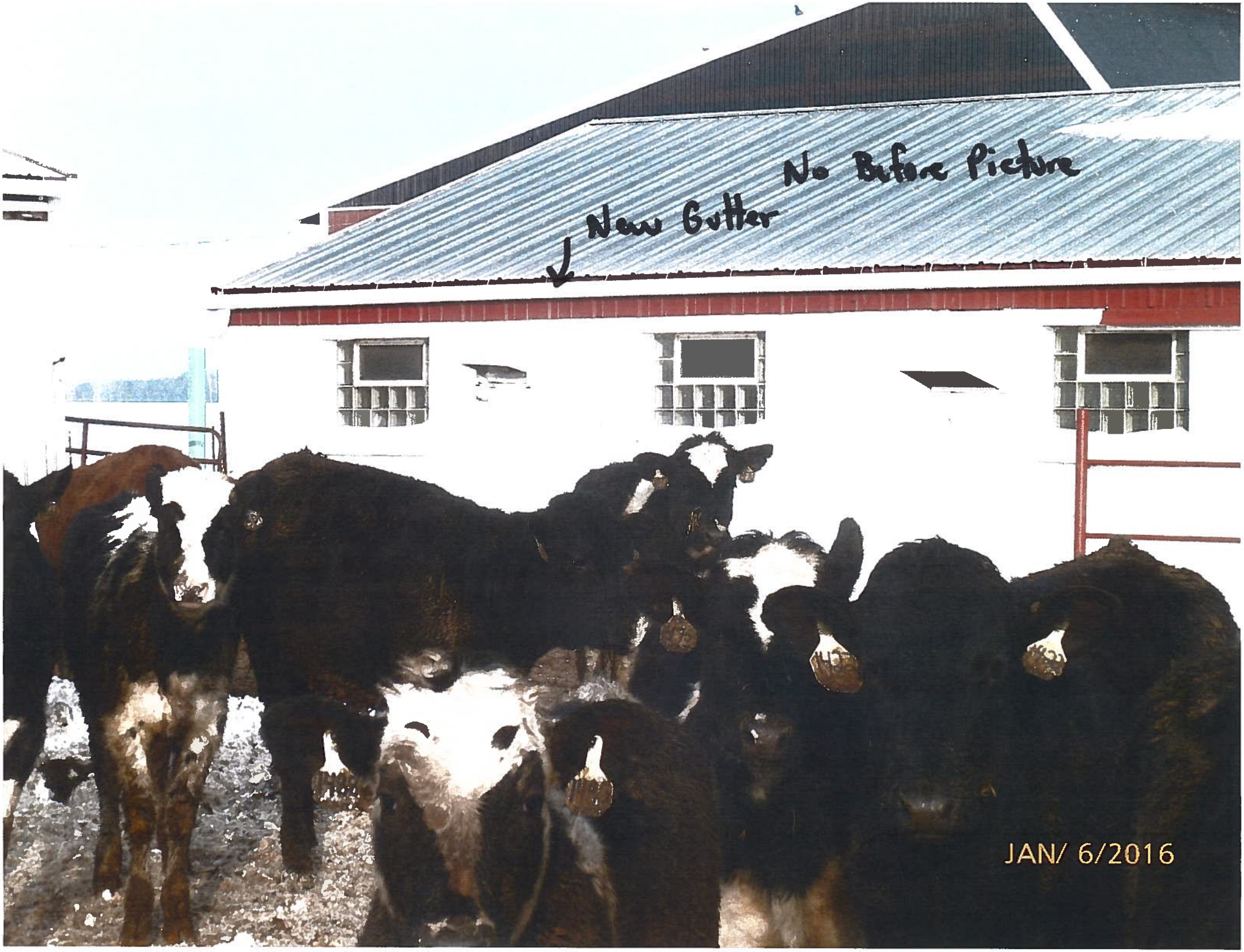
Outagamie County Chapter 4, Agricultural Performance Standards and Animal Waste Storage Ordinance as well as Chapter NR 151, Wisconsin Administrative Code requires that you maintain this level of compliance regardless of future cost sharing. This will require your continued operation and maintenance 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.

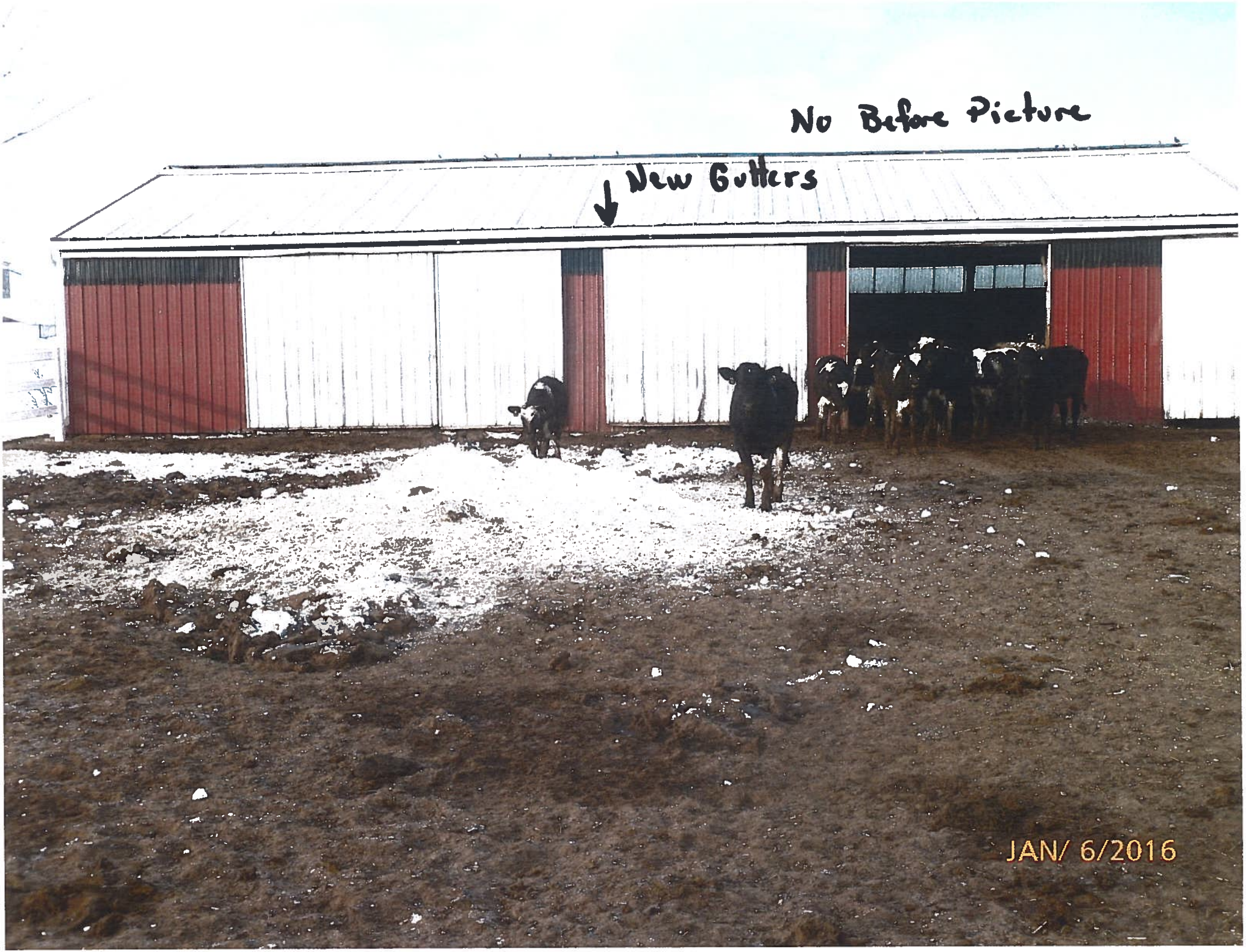
Thank you for your continued conservation efforts. They have contributed significantly to improved water quality within Outagamie County. If you have any further questions or concerns, please contact me at (920) 832-5073.

Sincerely,

Gregory J. Baneck
County Conservationist

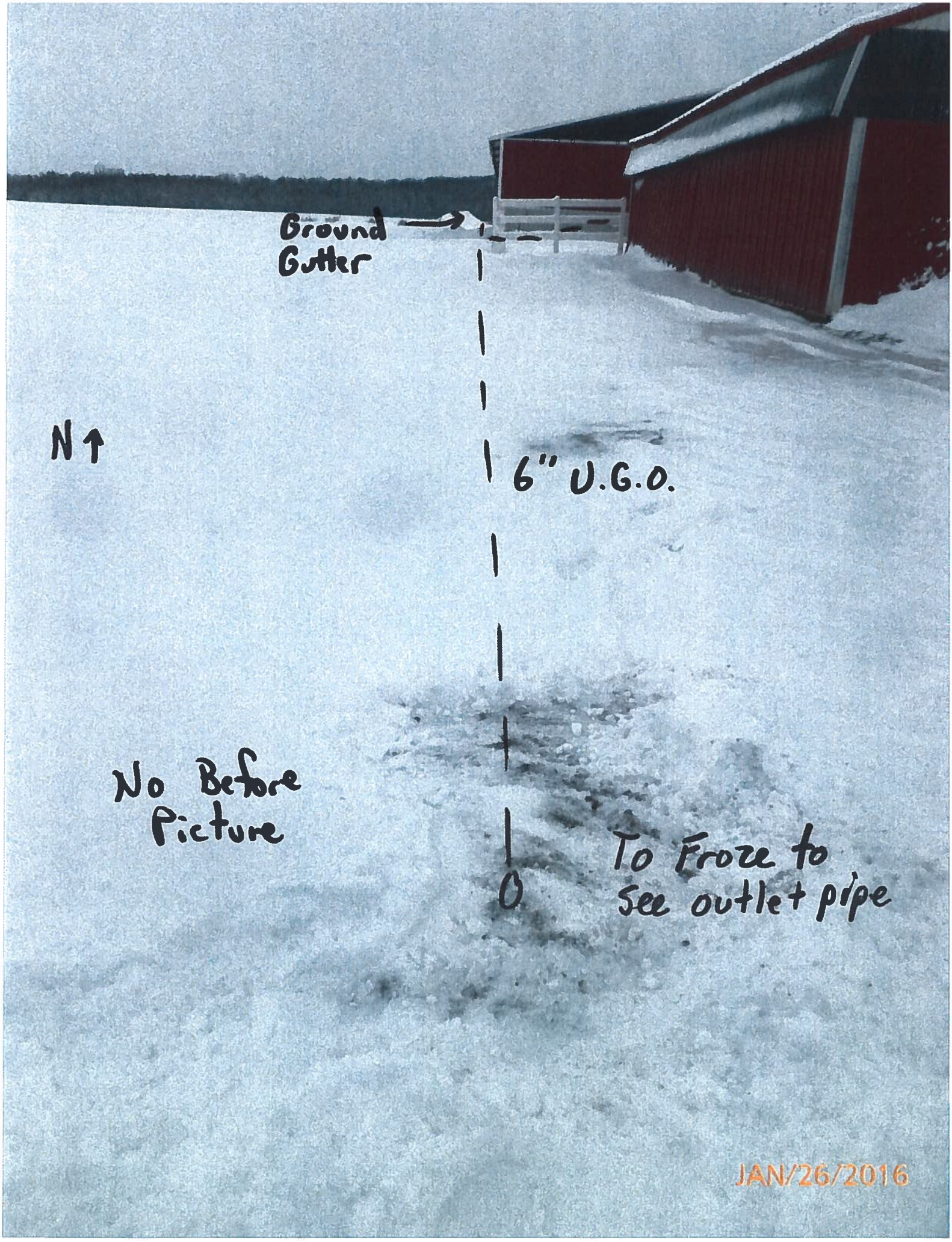

No Before Picture
New Gutters
JAN/ .6/2016


No Before Picture
New Gutter
JAN/ 6/2016


No Before Picture
New Gutters
JAN/ 6/2016


↑S
← Ground
Gutter
Plowed
NOV/12/2013


S
Ground
Gutter
Stone Trench
+ Tile
JAN/26/2016


Ground
Gutter
N↑
6" U.G.O.
No Before
Picture
To Froze to
See outlet pipe
JAN/26/2016


Leon Sprangers Oneida T23 N19E Section 28
N
W
E
S
ground gutter
Underground Outlet
gutter
gutter
gutter
0
100
200
Feet
1 inch = 100 feet
BAIN RD
Source: Outagamie County, Outagamie County GIS

BUFFER DESIGN USING BARNY

ver 11-19-2007

Farmer: Leon Sprangers Planner/Designer: JP & SJM Date: 11/17/2008

	Input	Output	
Closest City of similar climate:	2		1 Madison, 2 Appleton, 3 Wausau, 4 Eau Claire
Paved lot area:	1,400		sq ft
Earth lot area:	3,900		sq ft
Animal Lot size:		5,300	sq ft
Is there a DESIGNED settling basin	2		Yes= 1; No= 2
Animals on lot:	25		number
Type of animal:	1		(Dairy = 1; Beef=2)
Ave. Animal Weight:	700 lbs		lbs
Lot Use:	1		1= Heavy; 2= Medium; 3= Light)

TRIBUTARY AREAS

Tributary area:	0	sq ft		sq ft
Runoff Curve Number:	0			sq ft
Roof area:	2,760	sq ft		

36.1 lbs P per year at D.S. Lot edge:

Maximum permissible P Output that can be released: 15 lbs

Your choice based on impacted resources- Max is 15

BUFFERS - Size by trial and error

First Buffer	Length:	25	ft
	Slope:	0.5	Slope is too low →
	"c" :	0.59	
Second Buffer	Length:		ft
	Slope:		
	"c" :		

P (lbs) after the buffers: 17.7 lbs P per year

NO GOOD - Too much P released

"c" Value Table	
Permanent Meadow	0.59
Woods, Heavy Litter	0.59
Woods, Lt Ltr	0.29
Well managed grazing	0.44
Fair managed grazing	0.29
Good Pasture	0.22
Fair Pasture	0.15
Small Grain	0.29
Legume	0.29
Contoured Row Crop	0.29
Non-contoured row crop	0.05

BUFFER SIZING

Chosen Buffer Width: feet

Chosen Buffer Length:

Min. Acceptable Buffer Area from 635 standard: 6000 sq ft

Min. Bfr. Len. BARNY Crit. (ft): 25

Min. Bfr. Len. Area Crit. (ft): #DIV/0!

No Good- Less than BARNY length

BUFFER DESIGN USING BARNY

OWNER: Sprangers | DESIGNER: QK | DATE: 11/17/2008
CHK BY: | DATE:

	Input	Output	
Closest City of similar climate:	2		1 Madison, 2 Appleton, 3 Wausau, 4 Eau Claire
Paved lot area:	1,400		sq ft
Earth lot area:	3,900		sq ft
Animal Lot size:		5,300	sq ft
Is there a DESIGNED settling basin	2		Yes= 1; No= 2
Animals on lot:	25 number		number
Type of animal:	1		(Dairy = 1; Beef=2)
Ave. Animal Weight:	700 lbs		lbs
Lot Use:	1		1= Heavy; 2= Medium; 3= Light)

TRIBUTARY AREAS

Tributary area:	sq ft	sq ft
Runoff Curve Number:		
Roof area:	sq ft	

16.0 lbs P per year at D.S. Lot edge:

Maximum permissible P Output that can be released: lbs

Your choice based on impacted resources- Max is 15

BUFFERS - Size by trial and error

First Buffer	Length:	25	ft (See Note Below)
	Slope:	0.5	Slope is too low
	"c" :	0.59	→
Second Buffer	Length:		ft
	Slope:		
	"c" :		

- 17.7
- 7.8
9.9 # saved

P (lbs) after the buffers: 7.8 lbs P per year

NO GOOD - Too much P released

"c" Value Table	
Permanent Meadow	0.59
Woods, Heavy Litter	0.59
Woods, Lt Ltr	0.29
Well managed grazing	0.44
Fair managed grazing	0.29
Good Pasture	0.22
Fair Pasture	0.15
Small Grain	0.29
Legume	0.29
Contoured Row Crop	0.29
Non-contoured row crop	0.05

BUFFER SIZING

		6,000 sq ft	Min. Acceptable Buffer Area
Chosen Buffer Width	feet		
		25 feet	Min. Bfr. Len. Based on BARNY
		#DIV/0! feet	Min. Bfr. Len. Based on Area
Chosen Buffer Length	feet		No Good- Less than BARNY length