

**PENNINGTON COUNTY  
BOARD OF COMMISSIONER'S MEETING  
JUSTICE CENTER - COUNTY BOARD ROOM  
TUESDAY, JANUARY 28<sup>th</sup>, 2020, 5:00 P.M.**

**AGENDA**

Pledge of Allegiance

5:00 Julie Sjostrand – Human Services Director

5:10 Faye Auchenpaugh  
- Auditorium update; final report on public input

5:25 Mike Flaagan – County Engineer

5:40 Ray Kuznia – County Sheriff  
- Civil Process Fees  
- LEC Items

5:50 Bryan Malone – Pennington County SWCD  
- Wetland Bank credits

6:00 Tax Abatement Hearing

Motion to approve Severance Agreement between  
Pennington County and Blaize Zimmerman

Motion to approve Separation Agreement between  
Pennington County and Kathleen Herring

County Auditor's Items  
- Appoint Ballot Boards for 2020 Elections

**(This agenda is subject to change)**

PENNINGTON COUNTY HUMAN SERVICES  
HUMAN SERVICE COMMITTEE

CONSENT AGENDA

On a motion by Commissioner \_\_\_\_\_ and seconded by  
Commissioner \_\_\_\_\_, the following recommendations of the  
Pennington County Human Service Committee for January 21, 2020 (detailed minutes on record)  
are hereby adopted:

SECTION A

- I. To approve the December 17, 2019 Human Service Committee Meeting minutes.
- II. To approve the agency's personnel action as presented.
- III. A. To Approve the CY 2020 Residential Treatment Services and the Clinical Services/Community-Based Services Purchase of Service agreements between Sanford Behavioral Health and Pennington County Human Services as presented.

SECTION B

- I. To approve payment of the Agency's bills.

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Aye

Nay

Chairperson

Date

## TAX ABATEMENT 2019

Parcel No.	Property Owner	Address	Legal Description	2019 Cty Taxes	Spc Allocation	Owner Allocation	Payment NO.
25.003.370.30	Aaron Joppru	121 Arnold Ave N	Original Townsite of Thief Riv Lots 10 thru 12 Blk 53	\$1,119.94		\$1,119.94	Final
25.047.029.00	Thomas Zingsheim	1508 Cartway Dr	Rustads Addition N150' of Lot 51 and E 20' of N 150" of Lot 50	\$1,259.21		\$1,259.21	Final
25.062.083.00	Tammy Jacka	620 Cherry Road	Noreen's First Addition, Lot-010 Block-006	\$777.70		\$777.70	Final
25.111.004.10	Mark Borseth	111 Eastwood Dr	South Eastwood Addition, Lot-004, Block-001	\$1,400.45	\$ 1,400.45		3rd Payment
25.114.002.00	Shannon McCloskey	406 Evergreen St	Pine Wood Estates, Lot-002	\$1,072.40	\$ -	\$1,072.40	Final
25.114.004.00	Kevin Brown	414 Evergreen St	Pine Wood Estates, Lot-004	\$1,032.35	\$ -	\$1,032.35	Final
25.114.005.00	Kathryn A Renwick	418 Evergreen St	Pine Wood Estates, Lot-005	\$947.40		\$947.40	Final
25.114.006.00	James Svir	422 Evergreen St	Pine Wood Estates, Lot-006	\$1,270.73	\$ -	\$1,270.73	Final
25.114.007.00	Lois Bergland	426 Evergreen St	Pine Wood Estates, Lot-007	\$1,251.60		\$1,251.60	Final
25.121.011.10	Christina Pribyl	2107 Greenwood St E	MMCDC's Greenwood Neighborhood Addition Lot-011 Block	\$858.52	\$ 858.52		2nd Payment
25.111.005.10	Duane Horras	113 Eastwood Dr	South Eastwood Addition, Lot-005, Block-001	\$1,592.73	\$ 1,592.73		2nd Payment
25.111.009.20	Margaret Kaste	131 Eastwood Dr	South Eastwood Addition, Lot-001 Block-002	\$1,423.52	\$ 1,423.52		2nd Payment
25.114.003.00	Marcellene Franson	410 Evergreen St	Pine Wood Estates, Lot-003	\$1,144.79		\$1,144.79	2nd Year
25.062.041.00	Karen Berggren	139 Willow Rd	Noreen's First Addition, Lot-011 Block-004	\$527.15	\$ 444.77	\$82.38	2nd Year
25.121.006.10	Jacob Toren	2019 Greenwood St E	MMCDC's Greenwood Neighborhood Addition Lot-006 Block	\$849.23	\$ 849.23		1 <sup>st</sup> Payment
25.121.005.10	Jamie Englund	2017 Greenwood St E	MMCDC's Greenwood Neighborhood Addition Lot-005 Block	\$809.25	\$ 809.25		1 <sup>st</sup> Payment
25.115.001.00	Suresh Sreedharan	100 Gabbi Ct	Useldinger 1st Addition Westerly Part of Lot 1	\$926.36	\$ 926.36		1 <sup>st</sup> Payment
25.115.001.01	Steven Keogh	102 Gabbi Ct	Useldinger 1st Addition Easterly Part of Lot 1	\$1,115.80	\$ 1,115.80		1 <sup>st</sup> Payment
				<b>\$19,379.13</b>	<b>\$ 9,420.63</b>	<b>\$9,958.50</b>	

NOTICE OF HEARING  
PENNINGTON COUNTY

Notice is hereby given, pursuant to Minnesota State Statute 469.1813 through 469.1815 – Economic Development – Tax Abatement that the following property owners are eligible and have applied for a tax abatement as per the Tax Abatement Policy approved by Pennington County. The qualified properties are legally described as:

MMCDC's Greenwood Neighborhood Addition, Lot-6 Block-1. Parcel number 25.12100610-Jacob Toren. Total estimated abatement is \$849.38 per year.

MMCDC's Greenwood Neighborhood Addition, Lot-5 Block-1. Parcel number 25.12100510 – Jamie Englund. Total estimated abatement is \$809.25 per year.

Useldinger First Addition, Westerly part of Lot-1. Parcel number 25.11500100 – Suresh Sreedharan. Total estimated abatement is \$926.36 per year.

Useldinger First Addition, Easterly part of Lot-1. Parcel number 25.11500101 – Steven Keogh. Total estimated abatement is \$1,115.80 per year.

Notice is further given that Pennington County will conduct a Hearing on the Tax Abatements at 6:00 P.M. on Tuesday, January 28<sup>th</sup>, 2019, in the County Board Room, Pennington County Justice Center, 141 Main Avenue South, Thief River Falls, MN 56701. All persons wishing to comment on will have the option to be heard at this time. Persons who wish to submit written comments prior to the Hearing or who have questions should address them to the Pennington County Auditor-Treasurer, P.O. Box 616, Thief River Falls, MN 56701, or telephone 218-683-7000.

If you have a disability and need an accommodation in order to attend this Hearing, please contact the undersigned as soon as possible or at least three (3) working days in advance of the Hearing at the above telephone number.

Dated this 27<sup>th</sup> day of December, 2019.

Kenneth Olson  
Pennington County Auditor-Treasurer

Publish in the legal notices in the Wednesday, January 15<sup>th</sup>, 2020 edition of The Times.



**DEPARTMENT OF THE ARMY**  
ST. PAUL DISTRICT, CORPS OF ENGINEERS  
180 FIFTH STREET EAST, SUITE 700  
ST. PAUL, MN 55101-1678

REPLY TO ATTENTION OF  
REGULATORY BRANCH

Regulatory File No. 2007-03762-CLJ

December 18, 2017

Mr. Cody Hempel  
Pennington County Board Chair  
101 Main Avenue North  
PO Box 616  
Thief River Falls, Minnesota 56701

Dear Mr. Hempel:

This letter is in response to your request for release of credits from the Pennington County bank, located in Pennington County, Minnesota. Based on our review of your submitted monitoring report, a site visit on November 15, 2017, and comments from the Interagency Review Team, we approve the release of 27.0780 credits from your bank in accordance with the credit release schedule on page 5 of 12 of the Mitigation Banking Instrument (MBI). The amount and type of credit approved for release are summarized on the attached table.

According to our records you now have a total of 27.0780 federal credits that have been released for sale to permittees needing to satisfy compensatory mitigation requirements for Department of the Army permits. Federally approved credits are tracked in the Corps Regulatory In-lieu Fee and Bank Information Tracking System (RIBITS). The RIBITS ledger for your bank has been updated to reflect the credit release approved by this letter.

If you have any questions, please contact Craig Jarnot in our Bemidji office at (651) 290-5337 or [Craig.L.Jarnot@usace.army.mil](mailto:Craig.L.Jarnot@usace.army.mil). In any correspondence or inquiries, please refer to the Regulatory file number shown above.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Beudet".

Andy Beudet  
Chief, Northwest Section

Enclosure:  
Credit Release Table

cc:  
Andrew Horton, USFWS  
Kerryann Weaver/Andrea Schaller, EPA, Region 5  
Doug Norris/Pam Schense, DNR  
Tim Smith, BWSR

Elizabeth Flage, BWSR  
Leslie Day, COE  
John Overland, BWSR



**DEPARTMENT OF THE ARMY**  
**ST. PAUL DISTRICT, CORPS OF ENGINEERS**  
**180 FIFTH STREET EAST, SUITE 700**  
**ST. PAUL, MN 55101-1678**

REPLY TO ATTENTION OF  
 REGULATORY BRANCH

Type of Compensation	Number of Acres	Type of Wetland Credit	Credit Ratio	Final Projected Credits	60% Credit Deposit (Date)
Re-establishment	8.2	Wet to Wet Mesic Prairie (Type 2)	1:1	8.20	4.9200
Rehabilitation	5.05	Wet to Wet Mesic Prairie (Type 2)	2:1	2.53	1.5180
Rehabilitation	4.60	shallow marsh (Type 3)	2:1	2.30	1.3800
Rehabilitation	57.74	shrub-carr (Type 6)	2:1	28.87	17.3220
Rehabilitation	3.38	Hardwood Swamp (Type 7)	2:1	1.69	1.0140
<i>Buffer (may not contribute to more than 25% of total bank credits)</i>	6.17	shrub-carr (Type 6)	2:1	1.54	0.9240
<i>Total</i>	85.14			45.13	27.0780

## PENNINGTON COUNTY CIVIL PROCESS FEES

	CURRENT FEES	PROPOSED FEES
Service of Summons/Complaints, etc	\$50.00/per service	\$60
Not Found Service	\$45.00	\$50
Foreclosure Sale	\$50.00	\$60
Posting 3 notices of Sale	\$50.00	\$60
Writ of Execution Service (bank, Employer, Personal demand)	\$50.00	\$60
Writ of Execution Commission	10% on first \$250/6% remainder	same
Writ of Recovery & Inventory	\$50 for service/posting \$50/hr inventory	\$60
Mortgage Redemption	\$250.00	same
Notice of Intent to Redeem	\$100.00 nonrefundable	same
Seizure of Property	\$50.00	\$60
Personal Property Sale	\$50.00	\$60
Services/processes not elsewhere named	\$40.00	\$50
Service where extended Deputy assistance is involved, not elsewhere named	\$50.00/hour	\$60
RUSH SERVICE/ADDITIONAL FEE for within 3 days	none	\$40.00





# Pennington County Wetland Bank Credit Release

Area	Acres	CSAH #3 Project Replacment	Credit Ratio	Projected Credits	60% Release 9/7/17	Meets 100% release	Moved to Other	Difference	Final Deposit
Buffer (Deposited as Type 6)	6.17		0.25	1.54	0.924	0.616	0.6760	0.676	2.216
Type 2 - Wet to Wet-Mesic Prairie	8.20		1	8.20	4.920	3.280		0.000	8.200
Type 2 - Wet to Wet-Mesic Prairie	14.85	-9.8	0.5	2.53	1.518			-1.012	1.518
Type 3 - Shallow Marsh	4.60		0.5	2.30	1.380	0.920		0.000	2.300
Type 6 - Shrub-Carr	57.74		0.5	28.87	17.322	11.548		0.000	28.870
Type 7 - Hardwood Swamp	3.38		0.5	1.69	1.014	moved		-0.676	1.014
<b>Total Wetland</b>	<b>94.94</b>			<b>45.13</b>	<b>27.078</b>	<b>16.364</b>	<b>0.6760</b>	<b>-1.012</b>	<b>44.118</b>
Spoil Piles and ditches	5.49								
Pre-existing wetlands	1.30								
Not Delineated	7.44								
<b>Total Other Land</b>	<b>14.23</b>								
<b>Total Easement Area</b>	<b>109.17</b>								

## Total Easement Value

Easement Area	109.17 acres
Bank Credits	44.118
Credit Selling Price	\$18,000/credit
Credit Value	\$794,124.00
Expense to Restore	\$56,634.73
Total Credit Value	\$737,489.27
Total Easement Value	\$6,755.42/acre

**Pennington County**  
**Wetland Bank**  
**Final Credit Release**

On September 7, 2017 the Wetland Banking plan was approved in a by the Board of Water and Soil Resources (BWSR) and the US Army Corps of Engineers (USACOE). Documentation from the wetland delineation showed that the site met the Credit Release Criteria performance standards for release of 60% of the 45.13 potential credits.

On December 18, 2017 The US Army Corps of Engineers notified Pennington County of the release of 60% of the 45.13 total potential credits. As a result, 27.078 credits were deposited into the Pennington County Wetland Bank account.

For the remaining 40% of the potential credits to be released, a vegetative assessment was required, to determine if the wetland bank site meets the Credit Release Criteria performance standards for 100% Cumulative Credit Release.

Environmental Scientific of Donnelly, MN performed the onsite survey on September 17, 2019. The results of the assessment concluded that all plant communities met the 100% cumulative credit release criteria except for Type 2b (Wet Prairie) and Type 7 (Hardwood Swamp).

2b met the vegetation needed but features too high of population of invasive/non-native cover. 2.53 credit potential. This area has 1.012 credits remaining to be released.

Type 7 also met the number of native species needed but were upland plants (non-wetland). 1.69 credit potential. This area has 0.676 credits remaining to be released.

USACOE has provided options for Pennington County to proceed with the Final Credit Deposit. (These options are not typical to new bank applications. Since this bank has been in the works for so many years, they are willing to compromise in order to make the Final Credit Deposit):

Type 2b:

1. Try to control reed canary, add another year of two of monitoring and see what happens
2. Walk away from the 1.012 credits and leave it as is. (This is not usually an option but given the landscape position next to the river and neighboring plant communities are reed canary, it would be difficult to control)

Type 7:

Leave 1.014 credits that have already been released as Hardwood Swamp and deposit the remaining 0.676 credits as Buffer.

In Summary, our total credits would be reduced from the 45.13 initially projected down to 44.118. (a loss of 1.012 credits from what we initially estimated)

**My Recommendation:** I have negotiated with the USACOE on the Type 7 area. Their initial proposal was to take all 3.38 acres of Hardwood Swamp and convert to Buffer credit at a 25% ratio for a total of 0.845 credits (instead of 1.69 credits). I have proposed that the initial 60% release (1.014 credits) be allowed to remain on the books and that the remaining 0.676 credits be deposited as Buffer (maintain our 1.69 credit). They have agreed to make that argument. I recommend that we walk away from the 1.012 credits in Type 2b and leave it as is.

October 23, 2019

Bryan Malone - District Manager  
Pennington SWCD  
201 Sherwood Ave S.  
Thief River Falls, MN 56701

RE: Pennington County SWCD  
Wetland Bank Vegetation Monitoring

Dear Mr. Malone:

## **I. Introduction**

Pennington SWCD contracted Environmental Scientific (ES) to complete vegetation monitoring at the Pennington County Mitigation Bank to show that the vegetation meets the Mitigation Banking Instrument (MBI) performance standards for the remaining credits to be released. The Pennington County Mitigation Bank (Site) is located in the NW1/4 of Section 34 of High Landing Township, T153N, R40W, in Pennington County, Minnesota. The 109.17 acre Site is comprised of five primary plant communities; Type 2 – Wet Prairie, Type 3 – Shallow Marsh, Type 6 – Shrub-Carr, Type 7 – Hardwood Swamp, and Upland. Pennington County SWCD completed the tasks outlined in the Wetland Bank Plan and received the 60% Cumulative Credit Release as outlined in the MBI. The purpose of the 2019 vegetation monitoring was to determine if the wetland and buffer vegetation are meeting the standards for the 100% Cumulative Credit Release. The MBI Performance standards are included in **Table 1** below.

## **II. Vegetation Monitoring Methods**

Two primary methods are typically used for vegetation monitoring surveys: random meander and systemic transects. For the purpose of this survey, the random meander method was used to maximize coverage of search efforts. Meander sampling consists of walking along a randomized path within a designated survey area and recording the occurrences of plants species observed.

In order to provide spatial reference within the Site, the survey area was divided in to the five plant communities (**Figure 1**). For each plant community, a meander sampling survey was

completed and a percent cover class was assigned to each plant species observed within the plant community (Table 2). A sub-meter GPS unit was utilized in the field to determine the survey extent of each plant community.

**Table 1: MBI Performance Standards**

Community Type	Condition	Cumulative Credit Release		
		30% (i)	60% (ii)	100% (iii)
Wet Prairie	Native Herbaceous Species(#)	NA	6	8
	Native species relative cover (%)	NA	50	90
	Invasive/non-native relative cover (%)	NA	<30	<10
		NA		
Shallow Marsh	Native Herbaceous Species(#)	NA	4	6
	Native species relative cover (%)	NA	50	75
	Invasive/non-native relative cover (%)	NA	<30	<10
		NA		
Shrub Carr	Native Woody Species (#)	NA	2	3
	Native Herbaceous Species(#)	NA	6	8
	Native species relative cover (%)	NA	50	90
	Invasive/non-native relative cover (%)	NA	<30	<10
		NA		
Hardwood Swamp	Native Woody Species (#)	NA	2	3
	Native Herbaceous Species(#)	NA	3	5
	Native species cover relative (%)	NA	50	90
	Invasive/non-native relative cover (%)	NA	<30	<10
		NA		
Upland	Native Species (#)	NA	5	10
	Native species relative cover (%)	NA	50	90
	Invasive/non-native relative cover (%)	NA	<30	<10

**Table 2: Cover Class**

Cover Class	
7 => 95 – 100%	4 => 25 – 50%
6 => 75 – 95%	3 => 5 – 25%
5 => 50 – 75%	2 = Few individuals, > 1 – 5%
	1 = One individual, > 0 – 1%

**III. Vegetation Monitoring Results**

ES was onsite to complete the survey on September 17, 2019. As outlined in the Minnesota State Climatology Office Wetland Delineation Precipitation Data (see below), antecedent precipitation was normal for that time of the year. ES completed the meander survey over an eight-hour period resulting in approximately 1.6 hours of survey time per plant community. All plant species observed per plant community were recorded on vegetation monitoring survey forms including: the scientific name, common name, native status, wetland indicator status, and cover scale within the plant community. The cover scale was initially assigned per plant within the immediate survey area, before being adjusted to reflect the cover class within the entire plant community once the survey of that community was complete. The vegetation monitoring data sheets along with representative photographs of each plant community are included in Attachment A.

Precipitation Worksheet Using Gridded Database			
<b>Precipitation data for target wetland location:</b>			
county: <b>Pennington</b>	township number: <b>153N</b>		
township name: <b>Highlanding</b>	range number: <b>40W</b>		
nearest community: <b>River Valley</b>	section number: <b>34</b>		
<b>Aerial photograph or site visit date:</b>			
<b>Monday, September 16, 2019</b>			
<b>Score using 1981-2010 normal period</b>			
values are in inches A 'R' following a monthly total indicates a provisional value derived from radar-based estimates.	first prior month: <b>August 2019</b>	second prior month: <b>July 2019</b>	third prior month: <b>June 2019</b>
estimated precipitation total for this location:	<b>3.32R</b>	<b>3.85R</b>	<b>2.81R</b>
there is a 30% chance this location will have less than:	1.98	2.22	3.03
there is a 30% chance this location will have more than:	3.85	3.94	5.16
type of month: <b>dry normal wet</b>	<b>normal</b>	<b>normal</b>	<b>dry</b>
monthly score	<b>3 * 2 = 6</b>	<b>2 * 2 = 4</b>	<b>1 * 1 = 1</b>
multi-month score: 6 to 9 (dry) 10 to 14 (normal) 15 to 18 (wet)	<b>11 (Normal)</b>		

**Type 2 – Wet Prairie**

The Wet Prairie plant community was divided into two separate survey areas based on location. Type 2a is located on the east side of the Site and Type 2b is located on the west side of the Site (**Figure 1**).

**Type 2a**

The Type 2a - Wet Prairie consisted of 20 native plant species with >50% plant species having wetland indicator status of FAC, FACW, and OBL. Some FACU prairie grass species, namely big bluestem and Indian grass, were also dominant. See Attachment A for the complete list of plant species observed. The number of native herbaceous species and native species relative cover percent exceeded the 100% cumulative credit release criteria. Minor relative cover of invasive/non-native *Poa compressa*, *Tanacetum vulgare*, and *Lotus corniculatus* was observed, but was <5% of the plant community. The observed condition of the plant community compared to the cumulative credit release criteria is included below. Based on Site observations, the Type 2a – Wet Prairie plant community meets all the 100% cumulative credit release criteria.

Type 2a - Wet Prairie		Cumulative Credit Release Criteria			
Community Type	Condition	30%	60%	100%	Observed
Wet Prairie	Native Herbaceous Species(#)	NA	6	8	20
	Native Species Relative Cover (%)	NA	50	90	95+
	Invasive/non-native relative cover (%)	NA	<30	<10	<5

**Type 2b**

The Type 2b - Wet Prairie consisted of 17 native plant species with >50% (12 of 20) plant species having wetland indicator status of FAC, FACW, and OBL. See Attachment A for the complete list of plant species observed. The number of native herbaceous species exceeded the 100% cumulative credit release criteria, but the native species relative cover percent and invasive/non-native relative cover percent did not meet the 100% criteria. The Type 2b plant community was being invaded by a significant population of Tansy (10-20%) and Reed Canary Grass (10-15%). The Tansy and Reed Canary Grass were not isolated to small pockets, but were pervasive throughout the plant community. Smooth brome was also observed in some areas comprising approximately 5% of the overall plant community. The Type 2b - Wet Prairie was not as wet as the Type 2a on the east side of the Site and was being invaded by invasive/non-native species. The observed condition of the plant community compared to the cumulative credit release criteria is included below. Based on

Site observations, the Type 2b – Wet Prairie plant community does not meet all the 100% cumulative credit release criteria.

Type 2b - Wet Prairie		Cumulative Credit Release Criteria			
Community Type	Condition	30%	60%	100%	Observed
Wet Prairie	Native Herbaceous Species(#)	NA	6	8	17
	Native Species Relative Cover (%)	NA	50	90	80
	Invasive/non-native relative cover (%)	NA	<30	<10	20

### Type 3 – Shallow Marsh

The Shallow Marsh plant community was divided into two separate survey areas based on location. Type 3a is centrally located on the west side of the Site and Type 3b is in the northwest corner of the Site (**Figure 1**).

#### Type 3a – Shallow Marsh

The Type 3a – Shallow Marsh consisted of 10 native plant species with 100% plant species having wetland indicator status of FACW and OBL. The main Shallow Marsh basin did not contain any invasive/non-native species, but Reed Canary Grass was becoming dominant along a 15 to 20-foot-wide fringe around the edge of the plant community. Reed Canary Grass is < 10% of the overall plant community. See Attachment A for the complete list of plant species observed. The number of native herbaceous species and native species relative cover percent exceeded the 100% cumulative credit release criteria. The observed condition of the plant community compared to the cumulative credit release criteria is included below. Based on Site observations, the Type 3a – Shallow Marsh plant community meets all the 100% cumulative credit release criteria.

Type 3a - Shallow Marsh		Cumulative Credit Release Criteria			
Community Type	Condition	30%	60%	100%	Observed
Shallow Marsh	Native Herbaceous Species(#)	NA	4	6	10
	Native Species Relative Cover (%)	NA	50	75	95+
	Invasive/non-native relative cover (%)	NA	<30	<10	<5

#### Type 3b – Shallow Marsh

The Type 3b – Shallow Marsh consisted of 11 native plant species with 100% plant species having wetland indicator status of FACW and OBL. The main Shallow Marsh basin did not

contain any invasive/non-native species but Reed Canary Grass was becoming dominant along a 15 to 20-foot-wide fringe around the edge of the plant community. Reed Canary Grass was < 10% of the overall plant community. See Attachment A for the complete list of plant species observed. The number of native herbaceous species and native species relative cover percent exceeded the 100% cumulative credit release criteria. The observed condition of the plant community compared to the cumulative credit release criteria is included below. Based on Site observations, the Type 3b – Shallow Marsh plant community meets all the 100% cumulative credit release criteria.

<b>Type 3b - Shallow Marsh</b>		<b>Cumulative Credit Release Criteria</b>			
<b>Community Type</b>	<b>Condition</b>	<b>30%</b>	<b>60%</b>	<b>100%</b>	<b>Observed</b>
Shallow Marsh	Native Herbaceous Species(#)	NA	4	6	<b>11</b>
	Native Species Relative Cover (%)	NA	50	75	<b>95+</b>
	Invasive/non-native relative cover (%)	NA	<30	<10	<b>&lt;5</b>

**Type 6 – Shrub-Carr**

The Type 6 - Shrub-Carr is the largest plant community on the Site and consisted of 33 native plant species with >50% plant species having wetland indicator status of FAC, FACW, and OBL. Six native woody species were observed consisting of five species of willow and some Eastern cottonwood. A few areas had some invasion of Reed Canary Grass and Tansy, but those areas comprised <5% of the overall plant community. Minor components of other non-native grasses, Canada thistle, and Bird’s-foot trefoil were also observed. See **Attachment A** for the complete list of plant species observed. The observed condition of the plant community compared to the cumulative credit release criteria is included below. Based on Site observations, the Type 6 – Shrub-Carr plant community meets all the 100% cumulative credit release criteria.

<b>Type 6 - Shrub-Carr</b>		<b>Cumulative Credit Release Criteria</b>			
<b>Community Type</b>	<b>Condition</b>	<b>30%</b>	<b>60%</b>	<b>100%</b>	<b>Observed</b>
Shrub-Carr	Native Woody Species (#)	NA	2	3	<b>6</b>
	Native Herbaceous Species(#)	NA	6	8	<b>27</b>
	Native Species Relative Cover (%)	NA	50	90	<b>95+</b>
	Invasive/non-native relative cover (%)	NA	<30	<10	<b>&lt;5</b>



**Type 7 – Hardwood Swamp**

The Type 7 – Hardwood Swamp is located in the southeast corner of the Site and consisted of 25 native plant species with <50% plant species having wetland indicator status of FAC, FACW, and OBL (11 of 28). Eight native woody species were observed consisting of Burr oak, Quaking aspen, American elm, Green ash, Red osier, Fleshy hawthorn, American hazelnut, and Choke cherry. Most of the wetland plant species (Quaking aspen, Red osier, Bluejoint, Dwarf raspberry) were located on the west side of the plant community, adjacent to the Type 6 - Shrub-Carr where the topography was slightly lower. A few areas had some invasion of non-native Reed Canary Grass, Smooth brome, Kentucky bluegrass, Red clover, and Tansy, but those areas comprised <5% of the overall plant community. A few individuals of European buckthorn were observed. See Attachment A for the complete list of plant species observed. The observed condition of the plant community compared to the cumulative credit release criteria is included below. Based on Site observations, the Type 7 – Hardwood Swamp plant community would meet all the 100% cumulative credit release criteria with the exception that most of the plant species have wetland indicator status of FACU and UPL.

<b>Type 7 - Hardwood Swamp</b>		<b>Cumulative Credit Release Criteria</b>			
<b>Community Type</b>	<b>Condition</b>	<b>30%</b>	<b>60%</b>	<b>100%</b>	<b>Observed</b>
Type 7 - Hardwood Swamp	Native Woody Species(#)	NA	2	2	<b>8</b>
	Native Herbaceous Species(#)	NA	3	5	<b>17</b>
	Native Species Relative Cover (%)	NA	50	90	<b>95+</b>
	Invasive/non-native relative cover (%)	NA	<30	<10	<b>&lt;5</b>

**Upland**

The Upland plant community is located in the northeast portion of the Site and consisted of 16 native plant species with >50% (14 of 20) plant species having wetland indicator status of FACU and UPL. Most of the Upland plant community was free of invasive/non-native species. There was a 1-acre area along the field access road that was being invaded by Tansy, Smooth brome, Canada thistle, and Bird's-foot-trefoil. Invasive/non-native species comprised approximately 20% of this 1-acre. The Upland is approximately 6-acres, so 20% of 1-acre equates to approximately 3% of the overall plant community. See Attachment A for the complete list of plant species observed. The observed condition of the plant community compared to the cumulative credit release criteria is included below. Based on Site observations, the Upland plant community meets all the 100% cumulative credit release criteria.

Upland		Cumulative Credit Release Criteria			
Community Type	Condition	30%	60%	100%	Observed
Upland	Native Herbaceous Species(#)	NA	6	10	16
	Native Species Relative Cover (%)	NA	50	90	95+
	Invasive/non-native relative cover (%)	NA	<30	<10	<5

**Summary**

Based on the results of the wetland bank vegetation monitoring, all plant communities meet the 100% cumulative credit release criteria except the Type 2b – Wet Prairie and the Type 7 – Hardwood Swamp. The Type 2b – Wet Prairie is 5.05 acres (See Attachment B) and features invasive/non-native cover relative over (20%) the standard (<10%). Vegetation maintenance could be performed in this area to control the invasive/non-native species. The Type 7 – Hardwood Swamp meets the native woody species, native herbaceous species, native species relative cover, and invasive/non-native relative cover criteria but most of the plant species have a FACU or UPL wetland indicator status. The western portion of this plant community adjacent to the Shrub-Carr might meet the wetland criteria and could be delineated from the upland portion of the plant community to meet credit release criteria. A few areas of all the plant communities of the Site have some invasion of non-native species with Reed Canary Grass and Tansy being the most common and invasive. Vegetation maintenance should be performed to control the spread of the invasive/non-native species.

If you have any questions regarding this report, or would like additional information, please don't hesitate to contact me (320) 589-9893 or at [jasonkirwin@gmail.com](mailto:jasonkirwin@gmail.com).

Sincerely,


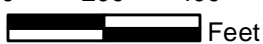


Jason Kirwin  
 President/Certified Wetland Delineator

**Figure 1      Vegetation Monitoring Plant Community Survey Areas**



Date: 11/2/2019 Photo Source: Minnesota Department of Natural Resources (MnDNR), Surdex Corporation

<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 15px; border: 1px solid purple; margin-right: 5px;"></span> Type 2 Wet Prairie</li> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: blue; margin-right: 5px;"></span> Type 3 Shallow Marsh</li> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: green; margin-right: 5px;"></span> Type 6 Shrub Carr</li> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: darkgreen; margin-right: 5px;"></span> Type 7 Hardwood Swamp</li> </ul>	<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: tan; margin-right: 5px;"></span> Upland</li> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: red; margin-right: 5px;"></span> Not Surveyed</li> </ul>	<h3>Pennington County SWCD Wetland Bank Vegetation Monitoring</h3> <div style="text-align: right;">  </div> <div style="text-align: right;"> <p>0      200      400</p>  <p>Feet</p> </div>
<p><b>ENVIRONMENTAL SCIENTIFIC</b></p>		

## **Appendix A Vegetation Monitoring Recording Forms and Photographs**



Pennington County SWCD  
Wetland Bank Vegetation Monitoring



Photo 1: Type 2a - Wet Prairie facing southwest.



Photo 2: Type 2a - Wet Prairie facing south.





Pennington County SWCD  
Wetland Bank Vegetation Monitoring



Photo 3: Type 2b - Wet Prairie facing north. Tansy and Reed Canary Grass greater 10 -20% aerial extent.



Photo 4: Type 2b - Wet Prairie facing northeast. Tansy and Reed Canary Grass greater 10 -20% aerial extent.



Pennington County SWCD  
Wetland Bank Vegetation Monitoring



Photo 5: Type 3a - Shallow Marsh facing west.

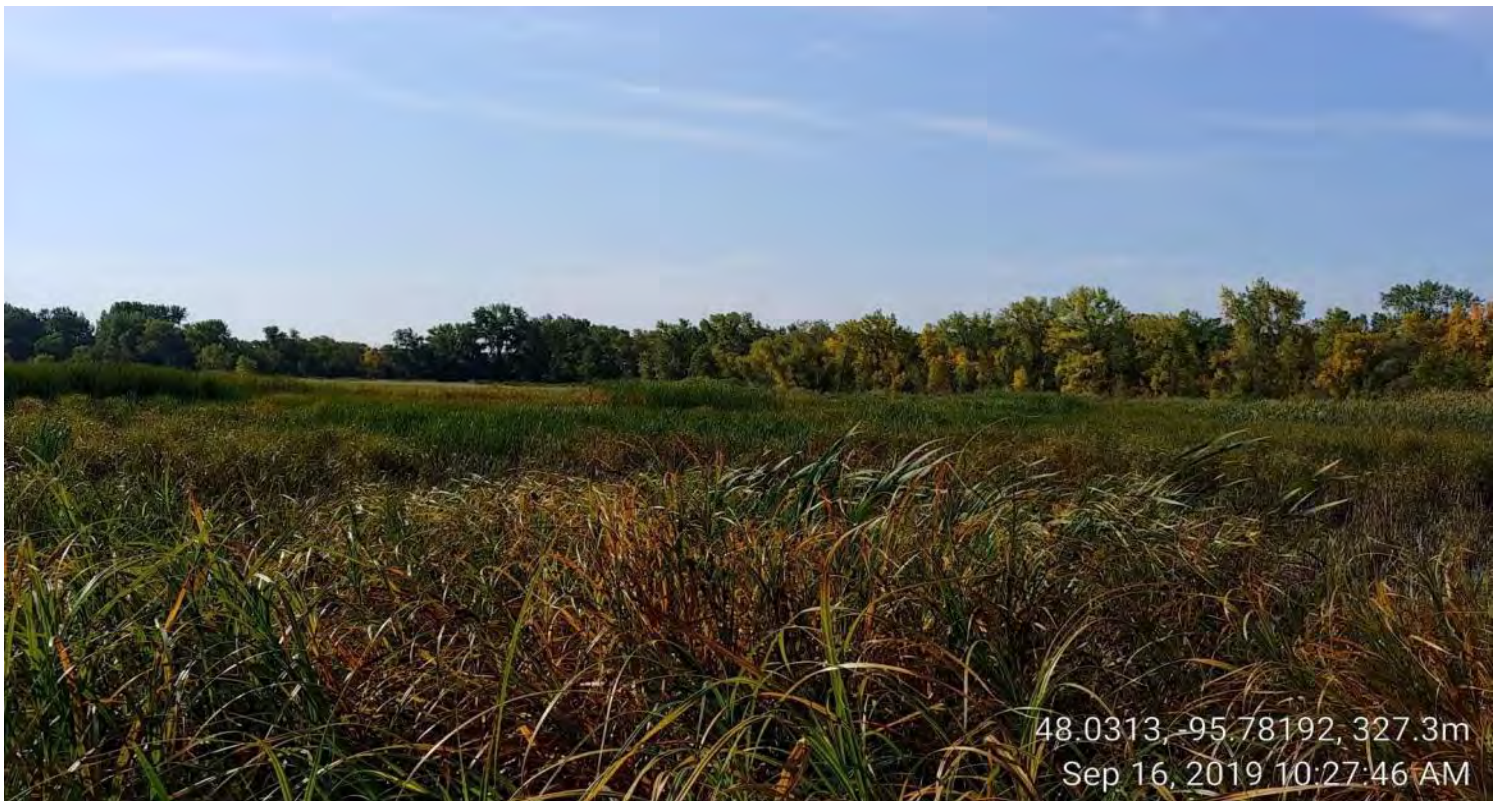


Photo 6: Type 3a - Shallow Marsh facing southwest.

